

## OFFICE OF SCIENCE

## Information Management for Office of Science (IMSC)

## Listing of Active Awards for State (AK)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ALASKA, UNIVERSITY OF Fairbanks, AK	DE-FG02-08ER46502 06/30/2012 Deal	SC-22.21	Influence of Sea Ice on Arctic Marine Sulfur Biogeochemistry in the Community Climate System Model	11
ALASKA, UNIVERSITY OF Fairbanks, AK	DE-FG02-09ER46628 08/14/2012 Zhang	SC-22.21	Novel Dense Membranes for Hydrogen Separation for Energy Applications	15
ALASKA, UNIVERSITY OF Fairbanks, AK	DE-FG02-09ER46629 08/14/2012 Bhatt	SC-22.21	Characterization of the Dynamics of Climate Systems and Identification of Missing Mechanisms Impacting Global Climate Models	15
ALASKA, UNIVERSITY OF Fairbanks, AK	DE-FG02-10ER46707 07/14/2013 Holdmann	SC-22.21	Making Wind Work for Alaska: Supporting the Development of Sustainable, Resilient, Cost-Effective Wind-Diesel Systems for	2,311
ALASKA, UNIVERSITY OF Fairbanks, AK	DE-FG02-04ER54741 12/14/2012 Newman	SC-24.2	Investigations of the Dynamics of Self-Consistent Models for Turbulent Transport and Implications for Transport Barrier Formation and Evolution	171
ALASKA, UNIVERSITY OF Fairbanks, AK	DE-FG02-08ER64598 07/31/2011 Walter Anthony	SC-23.1	Quantifying Climate Feedbacks from Abrupt Changes in High-Latitude Trace-Gas Emissions	30
Total for AK :				2,553

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Listing of Active Awards for State (AL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ALABAMA, UNIVERSITY OF Huntsville, AL	DE-FG02-10ER55027 01/31/2014 Cassibry	SC-24.2	Formation of Imploding Plasma Liners for Fundamental HEDP Studies and MIF Standoff Driver Concept	184
ALABAMA, UNIVERSITY OF Huntsville, AL	DE-FG02-10ER64970 09/14/2014 Christy	SC-23.2	Climate Model Evaluation at the University of Alabama, Huntsville	1,749
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-09ER64896 09/14/2012 Sobecky	SC-23.1	Uranium Biomineralization by Natural Microbial Phosphatase Activities in the Subsurface	134
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-10ER46737 08/14/2013 Pan	SC-22.21	Single-Molecule Spectroelectrochemistry of Interfacial Charge Transfer Dynamics In Hybrid Organic Solar Cell	512
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-09ER46630 08/14/2012 Steadman	SC-22.21	Nanostructure-Enhanced Phase Change Materials (NEPCM) and HRD Coordination	50
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-10ER41714 08/31/2013 Okada	SC-25	Research in Theoretical High Energy Physics	50
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-08ER46499 06/14/2012 LeClair	SC-22.21	Exchange Interactions in Epitaxial Intermetallic Layered Systems	15
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-08ER46537 08/31/2014 Gupta	SC-22.23	Multicomponent Protein Cage Architecture for Photocatalysis	220
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-86ER13465 01/14/2013 Kispert	SC-22.13	Magnetic Resonance and Optical Spectroscopic Studies of Carotenoids	145
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-06ER15764 01/14/2012 Dixon	SC-22.12	Molecular Basis for Microbial Adhesion and Geochemical Surface Reactions: A Study Across Scales	48
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-01ER41166 03/14/2013 Piepke	SC-26.1	Low Energy Neutrino Physics	300
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-96ER40967 04/14/2014 Busenitz	SC-25	Research in Neutrino Physics	458
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-09ER64804 07/31/2012 Barnett	SC-23.1	Understanding the Subsurface Reactive Transport of Transuranic Contaminants at DOE Sites	216
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-00ER15069 01/31/2012 Robicheaux	SC-22.11	Coherent and Incoherent Transitions	80
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-10ER16146 06/30/2014 Landers	SC-22.11	Imaging Multi-Particle Atomic and Molecule Dynamics	120

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-08ER46497 06/14/2012 Fergus	SC-22.21	Effect of SOFC Interconnect-Coating Interactions on Coating Properties and Performance	15
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-96ER54348 12/31/2013 Pindzola	SC-24.2	Theoretical Atomic and Molecular Physics for Controlled Fusion Energy	113
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-06ER54901 07/31/2010 Robicheaux	SC-24.2	Collaborative Research: Experimental and Theoretical Study of the Plasma Physics of Antihydrogen Generation and Trapping	0
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-05ER54819 09/14/2014 Pindzola	SC-24.2	Computational Atomic and Molecular Physics for Transport Modeling of Fusion Plasmas	189
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-00ER54610 11/30/2013 Knowlton	SC-24.2	MHD Stability and Equilibrium in a Current-Driven Stellarator-Tokamak Hybrid	690
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-03ER54692 10/31/2011 Hanson	SC-24.2	Equilibrium Reconstruction and Magnetic Field Studies in Stellarators	114
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-00ER54577 10/31/2011 Thomas	SC-24.2	Sheared Flows in Magnetized Plasmas - Fusion, Laboratory, and Space Applications	248
NATIONAL AERONAUT & SPACE ADM Huntsville, AL	DE-AI02-09ER46557 07/31/2013 Gubarev	SC-22.21	Optics for Advanced Neutron Imaging and Scattering	325
SOUTH ALABAMA, UNIVERSITY OF Mobile, AL	DE-FG02-96ER40970 04/14/2012 Jenkins	SC-25	Experimental High Energy Physics Group	81
Total for AL :				6,056

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ARKANSAS, UNIVERSITY OF Fayetteville, AR	DE-FG02-01ER15161 08/14/2013 Henry	SC-22.13	Protein Targeting to the Chloroplast Thylakoid Membrane: Structure and Function of a Targeting Complex	165
ARKANSAS, UNIVERSITY OF Fayetteville, AR	DE-FG02-09ER46612 08/14/2012 Bellaiche	SC-22.22	Properties of Multiferroic Nanostructures From First Principles	0
ARKANSAS, UNIVERSITY OF Little Rock, AR	DE-FG02-07ER64328 12/14/2011 Gaffney	SC-23.1	Natural Radionuclides and Isotopic Signatures for Determining Carbonaceous Aerosol Sources, Aerosol Lifetimes, and Washout Processes	252
ARKANSAS, UNIVERSITY OF Little Rock, AR	DE-FG02-07ER64329 12/14/2011 Marley	SC-23.1	Aerosol Absorption and Scattering Measurements: Field Measurements and Laboratory Characterizations	205
Total for AR :				622

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-09ER16123 09/14/2012 Wachter	SC-22.13	SISGR - The Regulation of Carbon Fixation in Plant and Green Algae: Rubisco Activase and the Origin of Heat Inactivation of CO2 Assimilation	250
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-07ER15908 08/31/2011 Gould	SC-22.13	Dynamical Arrest, Structural Disorder, and Optimization of Organic Photovoltaic Devices	0
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-03ER15393 02/14/2013 Gust, Moore, Moore	SC-22.13	Supramolecular Structures for Photochemical Energy Conversion	175
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER15543 05/31/2014 Vermaas	SC-22.13	Thylakoid Membrane Biogenesis in Cyanobacteria	170
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER15603 01/31/2014 Steimle	SC-22.11	Generation, Detection and Characterization of Gas-Phase Transition Metal Containing Molecules	133
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-10ER25984 05/31/2013 Ahn	SC-21.1	Assured Resource Sharing in Ad-hoc Collaboration	98
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-10ER46732 06/30/2013 Treacy	SC-22.21	Structural Studies of Amorphous Materials by Fluctuation Electron Microscopy	215
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-10ER46764 07/14/2013 Crozier	SC-22.21	Development and Application of In Situ Nanocharacterization to Photocatalytic Materials for Solar Fuel Generation	145
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-07ER64475 08/31/2012 Marchant	SC-23.2	Governing Nanotechnology Risks and Benefits in the Transition to Regulation: Innovative Public and Private Approaches	248
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-05ER46257 11/30/2011 Friesen	SC-22.22	A Surface Stress Paradigm for Studying Catalyst and Storage Materials Relevant to the Hydrogen Economy	100
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-06ER46345 08/14/2012 Drucker	SC-22.23	Science of Nanowire Epitaxy	0
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-09ER41624 08/14/2012 Krauss	SC-25	Theoretical Research at the High Energy Frontier: Cosmology, Neutrinos, and Beyond	200
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-01ER45943 06/14/2012 Tao	SC-22.22	Electron Transport and Energy Conversion in Single Molecule Devices	150
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-02ER45996 06/30/2012 Spence	SC-22.21	Quantitative Electron Nanodiffraction	150
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER46168 05/31/2014 McCartney	SC-22.21	Nanoscale Imaging of Electrostatic and Magnetic Fields	130

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ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-08ER64613 07/14/2011 Posner	SC-23.2	Partitioning of Nanoparticles into Organic Phases and Model Cells	0
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-09ER64805 07/31/2012 Rittmann	SC-23.1	Assessing the Role of Iron Sulfides in the Long Term Sequestration of U by Sulfate Reducing Bacteria	97
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-10ER65118 09/14/2013 Huang	SC-23.1	Interdecadal Climate Regime Transition and its Interaction With Climate Change in CMIP5 Simulations	267
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-08ER64616 08/14/2012 Chorover	SC-23.1	Release of Aged Contaminants from Weathered Sediments: Effects of Sorbate Speciation on Scaling of Reactive Transport	87
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-10ER64991 06/30/2013 Saleska	SC-23.2	Genes, Isotopes and Ecosystem Biogeochemistry: Dissecting Methane Flux at the Leading Edge of Global Change	1,965
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-93ER45488 10/31/2011 Falco	SC-22.22	Artificially Structured Magnetic Materials	104
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-09ER46559 02/28/2013 Zhang	SC-22.22	Theoretical Investigation of Magnetization Dynamics at Elevated Temperatures	80
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-96ER20242 03/31/2012 Larkins	SC-22.13	Molecular Genetic Studies of Genes Influencing Maize Endosperm Development	170
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41298 01/31/2013 Rutherford, Sarcevic, Toussaint	SC-25	University of Arizona High Energy Physics Program	1,409
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41318 03/31/2013 Rafelski	SC-26.1	Research in Theoretical High Energy Nuclear Physics at the University of Arizona	145
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41319 03/31/2013 Sarcevic	SC-26.1	Research in Theoretical Nuclear and Neutrino Physics	58
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41338 07/31/2013 Van Kolck	SC-26.1	Effective Theories of the Strong Interaction	130
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FC02-06ER41439 09/14/2012 Toussaint	SC-25	SciDAC - National Computational Infrastructure for Lattice Gauge Theory	55
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER15616 08/31/2012 Schumaker	SC-22.13	Calcium-mediated regulation of proton-coupled sodium transport	155
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-05ER15753 08/31/2014 Armstrong	SC-22.13	"Electronically Wired" Semiconductor Nanoparticles: Toward Vectorial Electron Transport in Hybrid Materials	160

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NORTHERN ARIZONA UNIVERSITY Flagstaff, AZ	DE-FC02-06ER64159 11/30/2011 Hungate	SC-23.1	Western Regional Center of the National Institute for Climatic Change Research	1,712
Total for AZ :				8,758

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
AGRICULTURE, U.S. DEPT. OF Albany, CA	DE-AI02-08ER15962 06/30/2014 Hake	SC-22.13	Using the Corngrass1 Gene to Enhance the Biofuel Properties of Crop Plants	133
.S. DEPT. OF - AGR RES SERVICE Albany, CA	DE-AI02-07ER64452 02/28/2014 Vogel	SC-23.2	Insertional Mutagenesis of Brachypodium Distachyon	0
.S. DEPT. OF - AGR RES SERVICE Albany, CA	DE-AI02-07ER64453 07/31/2011 Tobias	SC-23.2	Linkage Analysis Appropriate for Comparative Genome Analysis and Trait Selection in Switchgrass	0
.S. DEPT. OF - AGR RES SERVICE Albany, CA	DE-AI02-97ER20268 04/30/2013 Salvucci	SC-22.13	Optimizing Rubisco Regulation for Increased Photosynthetic Performance under Climate Change	124
A APPLIED SCIENCES CORPORATION San Leandro, CA	DE-FG02-10ER41649 06/14/2013 Krishnan	SC-25	RECOVERY ACT: SRF-Nb Thin-Films Grown Using Energetic Condensation for Nb-on-Cu SRF Cavities	500
INSTITUTE FOR MEDICAL RESEARCH La Jolla, CA	DE-FG02-10ER65026 08/14/2013 Rodionov	SC-23.2	Integrated Approach to Reconstruction of Regulatory Networks	211
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-04ER54755 01/31/2014 Bellan	SC-24.2	Enhancing Fundamental Understanding of Magnetic Confinement in the Presence of Flows, Non-Conservative Forces, Dynamics,	410
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FC02-05ER54849 01/14/2012 Cummings	SC-24.2	SciDAC - Center for Plasma Edge Simulation	110
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-09ER55021 07/14/2012 Bellan	SC-24.2	Non-Equilibrium Magnetohydrodynamic Behavior of Plasmas Having Complex, Evolving Morphology	256
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-05ER63983 12/31/2011 Seinfeld	SC-23.1	Mechanisms of Formation of Secondary Organic Aerosols and Implications for Global Radiative Forcing	200
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-07ER46405 08/31/2013 Atwater	SC-22.22	Plasmonic Photovoltaics	150
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-04ER46175 01/14/2014 Heath	SC-22.23	Quantum Dot and Quantum Wire Solids	0
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-09ER46573 07/31/2014 Atwater	SC-22.13	Light-Material Interactions in Energy Conversion -- EFRFC	2,089
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-99ER45766 08/14/2014 Eisenstein	SC-22.22	Quantum Electronic Matter in Two Dimensions	150
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-03ER46055 07/14/2012 Fultz	SC-22.21	Vibrational Thermodynamics of Materials	147

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-09ER41601 06/30/2012 Ellis	SC-25	Understanding the Fundamental Properties of Dark Matter & Dark Energy in Structure Formation and Cosmology	105
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-08ER41559 12/31/2011 Newman	SC-25	US LHCNet:Transatlantic Networking for the LHC & the US HEP Community; EVO: A Global-Scale Networked Infrastructure for	1,540
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FC02-10ER16207 09/14/2015 Lewis	SC-22.13	Joint Center for Artificial Photosynthesis (JCAP)	13,723
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-92ER40701 10/31/2013 Wise, Hitlin	SC-25	High Energy Physics	4,469
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-88ER40397 12/31/2011 McKeown	SC-26.1	Study of Nuclei and Elementary Particles at Low and Intermediate Energies	248
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-09ER16107 03/14/2013 Bellan	SC-22.11	SISGR - Modeling Reactions in High-Pressure Turbulence in the Cold Ignition Regime	145
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-08ER15933 03/14/2012 Grubbs	SC-22.12	The Generation of Efficient Supported (Heterogeneous) Olefin Metathesis Catalysts	150
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-05ER15754 05/31/2012 Lewis	SC-22.13	Fundamental Optical, Electrical, and Photoelectrochemical Properties of Catalyst-Bound Silicon Microwire Array	240
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-06ER15762 11/30/2011 Arnold	SC-22.12	Structural and Kinetic Studies of Novel Cytochrome P450 Small-Alkane Hydroxylases	160
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-03ER15483 02/14/2013 Lewis	SC-22.13	Development of Inexpensive, Abundant Semiconductors for Solar Energy Conversion: Photoelectrochemistry of	190
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-85ER13431 11/30/2012 Bercaw	SC-22.12	Synthetic and Mechanistic Investigation of Olefin Polymerization Catalyzed by Early Transition Metal Compounds	185
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-88ER13873 03/20/2012 Meyerowitz	SC-22.13	Regulation of Plant Cells, Cell Walls, and Development by Mechanical Signals	200
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-97ER14814 11/14/2013 McKoy	SC-22.11	Electron-Driven Processes in Polyatomic Molecules	125
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-10ER64997 07/14/2013 Orphan	SC-23.2	Syntrophic Interactions and Mechanisms Underpinning Anaerobic Methane Oxidation: Targeted Metaproteogenomics, Single-Cell	588
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-10ER64948 04/14/2015 Orphan	SC-23.2	RECOVERY ACT - Integrative Molecular and Microanalytical Studies of Syntrophic Partnerships Linking C, S, and N Cycles in Anoxic Environments	704

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CALIFORNIA ST. UNIV. EAST BAY Hayward, CA	DE-FG02-05ER15657 04/30/2013 Balasubramanian	SC-22.11	Electronic Structure of Transition Metal Clusters and Actinide Complexes	241
CALIFORNIA ST. UNIV. FULLERTON Fullerton, CA	DE-FG02-04ER15597 01/31/2012 Feagin	SC-22.11	Reaction Imaging and the Molecular Coulomb Continuum	96
CALIFORNIA ST. UNIV. L. BEACH Long Beach, CA	DE-FG02-10ER41693 08/14/2013 Rajpoot	SC-25	Studies in Gravity, Supersymmetry, Supergravity and Extended Objects	40
CALIFORNIA ST. UNIV. L. BEACH Long Beach, CA	DE-FG02-09ER64856 08/31/2011 Becker	SC-23.1	Validation of Hydraulic Tomography and Tracer Testing Using Ground Penetrating Radar	73
CALIFORNIA ST. UNIV. N. RIDGE Northridge, CA	DE-FG02-06ER46305 01/31/2013 Sheng	SC-22.22	Novel Charge and Spin Fractional Quantum Hall Effects and New Emerging Quantum Phases in Interacting and Spin-Orbit	110
CALIFORNIA ST. UNIV. N. RIDGE Northridge, CA	DE-FC02-06ER25791 09/14/2011 Lu	SC-21.1	Hierarchical Petascale Simulation Framework for Stress Corrosion Cracking	66
RNIA ST. UNIV., FOUND. FOR THE San Bernardino, CA	DE-FG02-09CH11561 06/30/2011 Carlson	SC-23	Reaching for the Stars - California State University San Bernardino Observatory Project	194
STATE U DOMINGUEZ HILLS FNDTN Carson, CA	DE-FG02-07ER41525 04/30/2012 Price	SC-26.1	Photoproduction of the Cascade Hyperons With the CLAS Detector at Jefferson Laboratory	58
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-06ER25786 09/14/2011 Demmel	SC-21.1	Towards Optimal Petascale Simulations (TOFS)	80
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-06ER25753 09/14/2011 Yelick	SC-21.1	Center for Programming Models for Scalable Parallel Computing	447
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-07ER25799 11/14/2011 Yelick	SC-21.1	Center for Scalable Application Development Software	135
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-08ER25849 07/14/2011 Kubiatowicz, Yelick	SC-21.1	Operating Systems Support for Advanced Programming Languages	324
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER25986 08/31/2013 Demmel	SC-21.1	Matrix Algebra for GPU and Multicore Architectures (MAGMA) for Large Petascale Systems	150
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER25956 01/31/2013 Wawrzynek	SC-21.1	RECOVERY ACT - Accelerating Science Driven System Design With RAMP	2,670
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER25970 03/14/2013 Demmel	SC-21.1	Architecture-Aware Algorithms for Scalable Performance and Resilience on Heterogeneous Architectures	150

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CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-10ER25999 08/31/2013 Bodik	SC-21.1	Software Synthesis for High Productivity Exascale Computing	220
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-06ER41453 09/14/2012 Kasen, McKee	SC-25	SciDAC: Supernovae, Gamma Ray Bursts, and Nucleosynthesis	250
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER41289 09/14/2012 Wurtele	SC-25	Advanced Accelerator Concepts	283
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER41304 12/14/2012 Crawford	SC-26.1	Investigation of Nuclear Partonic Structure	400
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-00ER41138 02/29/2012 Freedman	SC-26.1	US Participation in the KamLAND Experiment	680
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-05ER15696 08/14/2014 Katz	SC-22.12	Controlling Heterogeneous Catalysts Selectivity Using Grafted Metallocalixarene Active Sites	150
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-09ER16008 02/14/2012 Somerville	SC-22.13	Regulation of Cellulose Synthesis	341
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-09ER16034 07/31/2014 Smit	SC-22.21	Center for Gas Separations Relevant to Clean Energy Technologies -- EFRC	1,430
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-05ER15637 01/31/2013 Wenk	SC-22.12	Anisotropy and Residual Stresses in Sedimentary Rocks: A Synchrotron and Neutron Diffraction Study	116
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER15552 06/30/2011 Luan	SC-22.13	Immunophilins in the Assembly and Maintenance of Photosynthetic Complexes	120
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-87ER13742 06/30/2013 Quail	SC-22.13	Phytochrome from Green Plants: Properties and Biological Function	160
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-09ER46594 05/31/2013 Schaffer	SC-22.23	Engineering the Interface Between Inorganic Materials and Cells	185
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER41688 06/30/2013 Haxton	SC-26.1	Nuclear Physics and Astrophysics Theory at UC Berkeley	160
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER55078 07/14/2013 Graves	SC-24.2	Collaborative Proposal: Fundamental Science of Low Temperature Plasma-Biological Material Interactions	90
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-08ER64555 08/31/2012 Firestone	SC-23.1	Trajectories of Microbial Community Function in Response to Accelerated Remediation of Subsurface Metal Contaminants	288

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CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-07ER64505 08/31/2011 Banfield	SC-23.2	Development of Proteogenomic Approaches to Analyze the Role of Virus-Microbe Interactions in Shaping Natural Microbial	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-05ER64134 08/31/2011 Banfield	SC-23.2	Proteogenomic Approaches for the Molecular Characterization of Natural Microbial Communities	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-07ER64390 03/14/2012 Coates	SC-23.1	Anaerobic, Bio-Oxidation of Uraninite (U(IV))	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-07ER64436 07/14/2012 Fung	SC-23.1	Carbon Data Assimilation With a Coupled Ensemble Kalman Filter	202
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-06ER54904 07/31/2012 Fajans	SC-24.2	Collaborative Research: Experimental and Theoretical Study of the Plasma Physics of Antihydrogen Generation and Trapping	604
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER54750 07/31/2015 Wirth	SC-24.2	A Multiscale Investigation of the Mechanisms Controlling Materials Degradation in the Fusion Energy Environment	275
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER64691 04/14/2015 Wang	SC-22.22	RECOVERY ACT - Control Graphene Electronic Structure for Energy Technology	750
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER64989 06/30/2013 Firestone	SC-23.2	Plant Stimulation of Soil Microbial Community Succession: How Sequential Expression Mediates Soil Carbon Stabilization and Turnover	524
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER64996 07/14/2013 Banfield	SC-23.2	Development and Integration of Genome-Enabled Techniques to Track and Predict the Cycling of Carbon in Model	553
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER65009 07/31/2013 Banfield	SC-23.1	3D Reconstruction of Biological Organization and Mineralization in Sediment Attached Biofilms During Uranium Bioremediation	116
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER65027 08/14/2013 Sjolander	SC-23.2	Phylogenomic Tools and Web Resources for the Systems Biology Knowledgebase	465
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER65028 08/14/2013 Banfield	SC-23.2	Development of a Knowledgebase to Integrate, Analyze, Distribute, and Visualize Microbial Community Systems Biology Data	469
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER65037 07/31/2013 Pauly	SC-23.2	Identification and Genetic Characterization of Maize Cell Wall Variants for Improved Biorefinery	522
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-08ER64588 07/31/2011 Chiang	SC-23.1	The Interhemispheric Pattern in 20th Century and Future Abrupt Change in Regional Tropical Rainfall	125
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER65088 09/14/2013 Baldocchi	SC-23.1	Using a Regional Cluster of AmeriFlux Sites in Central California to Advance Our Knowledge on Decadal-Scale	330

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CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-10ER65079 08/31/2012 Ma	SC-23.1	Interactive Correlation Analysis and Visualization of Climate Data	550
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-08ER64677 09/14/2011 Cherry	SC-23.2	High Resolution PET with 250um LSO Detectors and Adaptive Zoom	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-08ER64693 09/14/2011 Meeks	SC-23.2	System Level Approaches to Understanding and Manipulating Heterocyst Differentiation in Nostoc Punctiforme	300
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER64785 06/30/2012 Rocke	SC-23.2	Inter-Individual Variability in Human Response to Low-Dose Ionizing Radiation	283
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER64821 08/31/2013 Sutcliffe	SC-23.2	CARE California Alliance for Radiotracer Education	582
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER64832 08/31/2012 Zhang	SC-23.1	Integrated Analyses of Multiple Worldwide Aerosol Mass Spectrometer Datasets for Improved Understanding of Aerosol Sources	177
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-10ER65060 08/31/2013 Mitchell	SC-23.2	High Sensitivity SPECT for Small Animals and Plants	499
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER54732 02/28/2014 Hwang	SC-24.2	Multiple Applications of Accelerated Compact Toroids in Magnetic Fusion Devices	343
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-99ER54518 02/29/2012 Luhmann	SC-24.2	Millimeter-Wave Density Fluctuation Diagnostics for NSTX	330
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-99ER54531 12/14/2012 Luhmann	SC-24.2	Innovative Diagnostic Developments for Turbulence and Transport Measurement and Visualization	605
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER63912 08/31/2011 Six	SC-23.1	Physico-Chemical and Bio-Chemical Controls on Soil C Saturation Behavior	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-07ER64481 02/29/2012 Bennett	SC-23.2	Intellectual Property and U.S. Public Investments in Research on Biofuel Technologies	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-08ER64530 04/14/2012 Wexler	SC-23.1	Process Models of the Equilibrium Size & State of Organic/Inorganic Aerosols for the Development of Large Scale Atmospheric Models & the Analysis of Field Data	126
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-10ER55083 05/31/2012 Hwang	SC-24.2	Formation of Dense Magnetized Plasmas via Laser Generated Beat Wave Current Drive	350
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-10ER41696 08/31/2013 Tripathi	SC-25	Development of Interconnect Technologies for Particle Detectors	155

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CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER46053 06/30/2012 Navrotsky	SC-22.23	Thermochemistry of Anion Defect and Charge Coupled Substitutions in Fluorite and Perovskite-Based Materials	200
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER46057 06/14/2013 Browning	SC-22.21	Materials Properties at Interfaces in Nanostructured Materials: Fundamental Atomic Scale Issues	160
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER46173 07/31/2013 Parikh	SC-22.23	Dynamical Self-Assembly: Structure-Dynamics-Function Relations in Heterogenous Lipid Membranes	327
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER46111 01/31/2013 Pickett	SC-22.22	Theory of Oxide Nanostructures: Polarity, Dimensionality, and Strong Interactions	110
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-07ER46475 08/14/2013 Power	SC-22.23	Activation of Hydrogen Under Ambient Conditions and Unusual Element Hydride Reactivity by Main Group Molecules	170
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-06ER46262 11/14/2012 Galli	SC-22.22	Semiconductor Nanostructures by Scientific Design	534
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-06ER46340 08/14/2012 Kuhl	SC-22.21	Structure-Property Relationships of Polymer Brushes in Restricted Geometries and their Utilization as Ultra-Low	220
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-97ER14749 05/31/2015 Navrotsky	SC-22.12	Thermodynamics of Minerals Stable Near the Earth's Surface	232
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER15554 08/31/2011 Liu	SC-22.13	Regulation of Plant Cell Growth by the Microtubule Motor Kinesins	120
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER15568 11/14/2013 Rundle	SC-22.12	Statistical Mechanics of Defect-Mediated Dynamics in Complex Geomaterials	169
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER15513 02/14/2013 Gates	SC-22.12	Tailoring Supports as Ligands: Zeolites and Oxides as Hosts of Molecular Metal-Complex Catalysts	200
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER15405 12/31/2011 Theg	SC-22.13	Energetics and Mechanisms of Protein Transport Across Chloroplast Membranes	160
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-02ER15315 10/31/2011 Orel	SC-22.11	Electron-Driven Excitation and Dissociation of Molecules	95
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-02ER15306 05/31/2014 Ng	SC-22.11	Determination of Accurate Energetic and Spectroscopic Database for Combustion Radicals and Molecules by High Resolution Photoion-Photoelectron Methods	145
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER16117 09/14/2012 Lagarias	SC-22.13	SISGR: Photoreceptor Regulation and Optimization of Energy Harvesting in Nostoc Punctiforme	1,000

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CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-10ER16150 04/30/2012 Britt	SC-22.13	Membrane-organized Chemical Photoredox Systems	100
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-05ER15667 08/14/2014 Navrotsky	SC-22.12	Energetics of Nanomaterials	110
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-05ER15693 11/30/2012 Casey	SC-22.12	Adding Reactivity to Structure-- -Oxygen-Isotope Exchanges at Structural Sites in Nanometer-Size Aqueous Clusters	150
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-08ER15963 06/30/2014 Inoue	SC-22.13	Thylakoid Biogenesis: Significance of Protein Maturation and Mechanism of Protein Targeting	151
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER41280 08/31/2011 Pellett	SC-25	Radiation Damage Studies of Materials and Electronic Devices Using Hadrons	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-10ER26039 08/31/2013 Ma	SC-21.1	Pervasive Parallel Processing Framework for Data Visualization and Analysis at Extreme Scale	152
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-91ER40674 12/31/2012 Ko	SC-25	High Energy Particle Physics Research	2,842
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-07ER25811 11/14/2011 Ludaescher	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	193
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25793 09/14/2012 Bai	SC-21.1	Next Generation Multi-Scale Quantum Simulation Software for Strongly Correlated Materials	311
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25794 12/14/2012 Galli	SC-21.1	Institute for Quantum Simulations of Materials and Nanostructures	920
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25777 12/14/2011 Ma	SC-21.1	SciDAC Institute for Ultra-Scale Visualization	1,989
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25780 12/14/2011 Joy	SC-21.1	Visualization and Analytics Center for Enabling Technologies (VACET)	298
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-91ER40679 01/31/2013 Sobel	SC-25	A Research Program in Neutrino Physics, Cosmic Rays, and Elementary Particles	3,418
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-06ER15826 03/31/2013 Ho	SC-22.11	Single-Molecule Interfacial Electron Transfer	149
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-10ER16161 06/14/2013 Evans	SC-22.12	Fundamental Chemistry of Actinide Complexes Containing An-N, An-O, and An-S Bonds	250

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CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-10ER16142 04/14/2015 Potma	SC-22.11	RECOVERY ACT - Ultrafast Electron Transport Across Nanogaps in Nanowire Circuits	600
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-09ER16003 01/31/2012 Detwiler	SC-22.12	Multiphase Fluid Flow in Deformable Variable-Aperture Fractures	119
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-08ER15994 08/14/2014 Blum	SC-22.12	Single-Molecule Fluorescence Imaging for Studying Organic, Organometallic, and Inorganic Reaction Mechanisms	120
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER15571 12/31/2013 Mukamel	SC-22.11	Theory and Simulation of Nonlinear X-Ray Spectroscopy of Molecules	150
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER15595 02/28/2013 Ho	SC-22.11	Spectroscopic Imaging Toward Space-Time Limit	170
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-86ER13514 06/14/2013 Evans	SC-22.12	Advancing Chemistry with the Lanthanide and Actinide Elements	125
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-86ER13525 05/31/2014 Lanyi	SC-22.13	Membrane Bioenergetics of Salt Tolerant Organisms	199
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-05ER46237 08/31/2014 Wu	SC-22.22	First Principles Investigation for Magnetic Properties of Innovative Materials	95
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-08ER46496 04/30/2014 Burke	SC-22.22	Fundamental Theory of Electronic Structure in the Nanoregime: Transport Through Single Molecules	130
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER46107 12/31/2011 Yu	SC-22.22	Noise, Disorder and Phase Transitions	85
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER46174 08/31/2013 Chernyshev	SC-22.22	Spin-Mediated Energy Transport and Dynamics in Quantum Magnets	110
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER46162 02/28/2014 Guan	SC-22.23	Bioinspired Hydrogen Bonding-Mediated Assembly of Nano-Objects toward Adaptive and Dynamic Materials	154
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-96ER45576 04/14/2014 Hemminger	SC-22.23	Optical Spectroscopy and Scanning Tunneling Microscopy Studies of Molecular Adsorbates and Anisotropic Ultrathin Films	161
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-84ER45083 01/31/2014 Mills	SC-22.22	Theory of Spin Dynamics in Nanoscale and Subnanoscale Magnetic Structures	100
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-09ER55044 08/14/2012 Lin	SC-24.2	Gyrokinetic Particle Simulation of Compressible Electromagnetic Turbulence in High-B Plasmas	70

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CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FC02-08ER54976 02/14/2016 Lin	SC-24.2	Gyrokinetic Simulation of Energetic Particle Turbulence and Transport	160
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-05ER64000 12/31/2011 Finlayson-Pitts	SC-23.1	Formation of Secondary Organic Aerosols (SOA) via Nitrate Ion Photochemistry In and On Particles	236
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-05ER64021 04/30/2013 Goulden	SC-23.1	Physiological, Demographic, Competitive and Biogeochemical Controls on the Response of California's Ecosystems to Environmental Change	373
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER54736 12/14/2011 Chen	SC-24.2	Theoretical Studies of Drift-Alfven and Energetic-Particle Physics	140
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-03ER54720 08/14/2012 Heidbrink	SC-24.2	Fast-Ion Studies in the Large Plasma Devices	100
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-02ER54681 08/14/2014 Heidbrink	SC-24.2	Beam Ion Studies in NSTX	98
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-07ER54916 12/31/2012 Lin	SC-24.2	Multiple-Time-Scale Gyrokinetic Particle Simulation with Collisions	99
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FC02-06ER54860 01/14/2012 Lin	SC-24.2	SciDAC - Center for Plasma Edge Simulation	116
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-06ER54867 04/14/2012 Heidbrink	SC-24.2	Fast-Ion D-Alpha Diagnostic for NSTX	126
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-10ER46689 04/14/2015 Law	SC-22.22	RECOVERY ACT - Evaluating the Oxidative, Photothermal and Electrical Stability of Colloidal Nanocrystal Solids	600
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-10ER64995 06/30/2013 Allison	SC-23.2	Can Microbial Functional Traits Predict the Response and Resilience of Decomposition to Global Change?	771
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-09ER64798 07/14/2012 Limoli	SC-23.2	Neurodegeneration and Adaptation in Response to Low-Dose Photon Irradiation	467
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-09ER64762 06/14/2012 Gerber	SC-23.2	From Vibrational Spectroscopy to Force Fields and Structures of Saccharides: New Computational Algorithms and Applications	272
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-08ER64695 03/14/2013 Detwiller	SC-23.1	Scale-Dependent Fracture-Matrix Interactions and their Impact on Radionuclide Transport	105
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-08ER64689 08/31/2012 Gunsalus	SC-23.2	Novel Hydrogen Production Systems Operative at Thermodynamic Extremes	500

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CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-09ER64824 08/31/2013 Phelps	SC-23.2	Microfluidic Technology Platforms for Synthesizing, Labeling and Measuring the Kinetics of Transport and Biochemical	599
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-10ER65054 08/31/2013 van Dam	SC-23.2	Microfluidics Without Channels: Highly-Flexible Synthesis on a Digital-Microfluidic Chip for Production of Diverse PET Tracers	800
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-09ER46658 09/14/2012 Chang	SC-22.23	SISGR - Metal Oxide Core Shell Nanostructures as Building Blocks for Efficient Light Emission	176
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-10ER46734 02/14/2012 Weiss	SC-22.21	Atomic-Scale Chemical, Physical and Electronic Properties of the Subsurface Hydride of Palladium: Gateway to Hydrogen Storage, Usage Embrittlement and Reaction	248
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-86ER52123 11/30/2013 Abdou	SC-24.2	Predictive Capabilities, Analysis and Experiments for Fusion Plasma Chamber Systems Research	2,140
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-07ER54918 03/31/2013 Gekelman	SC-24.2	Basic Plasma Science Facility	1,643
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-06ER54906 07/31/2012 Niemann	SC-24.2	Laser-Driven Collisionless Shocks in the Large Plasma Device	403
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-01ER54615 12/31/2012 Brower	SC-24.2	Development of Advanced Magnetic and Electron Current Density Diagnostics	756
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-99ER54527 02/29/2012 Peebles	SC-24.2	Cross-Cutting Research Studies on the National Spherical Torus Experiment	328
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-03ER54708 11/14/2012 Ghoniem	SC-24.2	Multiscale Modeling of Deformation, Fracture, and Failure of Fusion Materials and Structures	465
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-07ER64439 07/14/2011 Ghil	SC-23.1	Collaborative Research: Robust Climate Projections and Stochastic Stability of Dynamical Systems	0
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-08ER54984 12/31/2012 Rhodes	SC-24.2	Integrated System for Measurement of Multi-Scale Turbulence, Zonal Flows, and Particle Flux	439
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-08ER55003 08/14/2011 Niemann	SC-24.2	Characteristic X-ray Emission from Underdense Plasmas Irradiated by Ultra-Intense Lasers	161
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-10ER55081 07/14/2013 Stenzel	SC-24.2	Nonlinear and Inertial Magnetic Structures in EMHD Plasmas	219
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-10ER55082 07/14/2013 Morales	SC-24.2	Basic Studies of Non-Diffusive Transport in Plasmas	100

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CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-09ER55061 08/14/2012 Vincena	SC-24.2	Axial Plasma Jets and Their Interaction with and Production of Alfvén Waves	120
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-09ER55063 08/14/2011 Carter	SC-24.2	CMPD Phase-Out: Nonlinear Alfvén Waves, Validation of Gyrokinetic Simulation, Basic Studies of Reconnection	0
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-04ER63724 11/14/2011 Liou	SC-23.1	Characterization of 3D Cirrus Cloud and Radiation Fields Using ARM/AIRS/MODIS Data and Its Application to Climate Models	172
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-02ER63421 12/31/2014 Eisenberg	SC-23.2	UCLA-DOE Institute for Genomics and Proteomics	2,000
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-07ER41500 08/31/2012 Mori	SC-25	Community Petascale Project for Accelerator Science and Simulation	197
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-09ER46580 07/31/2014 Ozolins	SC-22.21	Molecularly Assembled Material Architectures for Solar Energy Production, Storage, and Carbon Capture -- EFRC	2,150
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-07ER46272 06/30/2013 Rosenzweig, Pellegrini	SC-22.3	The Physics of Gain Mechanisms in Self-Amplified Spontaneous Emission Free Electron Lasers	786
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-04ER15529 08/31/2013 Merchant	SC-22.13	Molecular Genetic Dissection of Chloroplast Iron Homeostasis	350
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-10ER16136 03/31/2013 Kavner	SC-22.12	Stable-Isotope Probe of Nano-Scale Mineral-Fluid Redox Interactions	148
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-10ER16192 08/31/2013 Weiss	SC-22.12	DC to Daylight: Local Spectroscopies for Subnanometer Spatial Resolution Chemical Imaging	210
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-08ER15935 01/31/2012 Yaghi	SC-22.12	Metal-Organic and Zeolite Imidazolate Frameworks (MOFs and ZIFs) for Highly Selective Separations	147
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-08ER15948 05/31/2013 Diaconescu	SC-22.12	Uranium Complexes for the C-H Activation of Hydrocarbons	166
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-92ER40693 10/31/2012 Rosenzweig, Pellegrini	SC-25	Theoretical and Experimental Studies in Accelerator Physics	1,027
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-92ER40695 10/31/2011 Cline	SC-25	Advanced Accelerator Physics Research at UCLA	312
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-92ER40727 05/31/2013 Joshi, Mori	SC-25	Experimental, Theoretical and Computational Studies of Plasma-Based Concepts for Future High Energy Accelerators	1,670

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CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-91ER40662 01/14/2013 Cousins	SC-25	Experimental and Theoretical High Energy Physics	3,055
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-88ER40424 01/31/2012 Huang	SC-26.1	Intermediate Energy and Relativistic Heavy Ion Group	1,274
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-06ER25797 09/14/2012 Zhong	SC-21.1	Simulations of Turbulent Flows With Strong Shocks and Density Variations	230
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-07ER64457 07/31/2012 Kueppers	SC-23.1	Subalpine and Alpine Species Range Shifts with Climate Change: Temperature & Soil Moisture Manipulations to Test Species & Population Responses	684
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-04ER25625 08/31/2010 Colvin	SC-21.1	A Center for Computational Biology	0
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-04ER15502 06/30/2012 Kelley	SC-22.13	Exciton Transport and Charge Separation in Quantum Dot Arrays	140
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-08ER64614 08/14/2012 O'Day	SC-23.1	Release of Aged Contaminants from Weathered Sediments: Effects of Sorbate Speciation on Scaling of Reactive	83
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-10ER65102 09/14/2013 O'Day	SC-23.1	Molecular Mechanisms and Kinetics of Microbial, Anaerobic, Nitrate-Dependent U(IV) and Fe(II) Oxidation	250
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-10ER16191 08/31/2013 Debus	SC-22.13	FTIR Studies of Photosynthetic Oxygen Production	174
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-86ER40271 12/31/2011 Seto, Barish	SC-26.1	Central Collisions of Heavy Ions	453
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-94ER40837 01/31/2012 Wimpenny, Ma, Gary	SC-25	High Energy Physics	1,261
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER41325 06/30/2013 Barish	SC-26.1	SPIN PHYSICS WITH PHENIX AT RHIC	248
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-05ER15660 05/14/2014 Bocian	SC-22.13	Fundamental Studies of Energy- and Hole/Electron- Transfer in Hydroporphyrin Architectures	145
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-09ER16069 09/14/2012 Bertrand	SC-22.12	Transition-Metal-Catalyzed hydroamination of Non-Activated Carbon-Carbon Multiple Bonds with Ammonia	155
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-09ER16096 09/14/2012 Zaera	SC-22.12	SISGR - Design and Characterization of Novel Photocatalysts With Core-Shell Nanostructures	380

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CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER15555 07/14/2012 Yang	SC-22.13	ROP GTPase Signaling in the Hormonal Regulation of Plant Growth	0
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-02ER15295 07/14/2014 Raikhel	SC-22.13	Trafficking to the Vacuoles in Plants	180
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-06ER46296 07/14/2013 Wu	SC-22.22	Density Functional Theory for Phase-Ordering Transactions	140
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-07ER46351 11/14/2011 Shi	SC-22.22	Study of Materials and Interface Properties for High-Efficiency Spin Injection	130
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-09ER46599 08/14/2012 Zaera	SC-22.23	Atomic Layer Deposition (ALD) of Metal and Metal Oxide Films: A Surface Science Study	186
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-08ER46520 07/31/2014 Liu	SC-22.22	Study of P-Type ZnO and MgZnO Thin Films for Solid State Lighting	50
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-07ER41465 05/31/2013 Hanson	SC-25	High Energy Physics Research with the CMS Experiment at CERN	240
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-07ER41487 08/14/2012 Hanson	SC-25	Neutrino Factory & Muon Collider Fellow	112
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER46131 04/14/2013 Mohideen	SC-22.22	Investigating the Role of Ferromagnetic Materials in the Casimir Force	150
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER46138 04/14/2013 Haddon	SC-22.23	Solid State Electronic Structure and Properties of Neutral Carbon-Based Radicals	242
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER41672 05/31/2015 Fuller	SC-26.1	Neutrinos and Nucleosynthesis in Hot and Dense Matter	45
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-87ER45332 06/30/2014 Schuller	SC-22.22	Nanostructured Materials: From Superlattices to Quantum Dots	165
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-00ER45799 11/30/2011 Basov	SC-22.22	Electromagnetic Response of Correlated Electron Systems in the Regime of Charge and Spin Inhomogeneity	624
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER46105 11/30/2012 Maple	SC-22.22	Superconductivity and Magnetism in d- and f-Electron Materials	300
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER46449 05/14/2013 Butov	SC-22.22	Cold Exciton Gases in Semiconductor Heterostructures	165

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CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER46603 07/31/2012 Shpyrko	SC-22.21	Nanoscale X-Ray Imaging and Dynamics of Electronic and Magnetic Materials	170
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-08ER46519 07/31/2014 Cohen	SC-22.23	Tuning Sorption Properties of Metal-Organic Frameworks via Postsynthetic Covalent Modification	220
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER46355 01/14/2012 Qiao	SC-22.22	Understanding Size Effect in Cleavage Cracking in Thin Film Materials	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER46204 05/31/2014 Di Ventura	SC-22.22	Time-Dependent Current Density-Functional Theory of Charge, Energy and Spin Transport and Dynamics in Nanoscale Systems	105
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER46672 09/14/2012 Meng	SC-22.21	New In Situ Analytical Electron Microscopy for Understanding Structure Evolution and Composition	155
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER46677 12/31/2012 Tezcan	SC-22.23	Inorganic Control of Biological Self-Assembly: Engineering Novel Biological Architectures and Redox-Active Protein Assemblies	200
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER46680 01/31/2013 Sinha, Fullerton	SC-22.21	Neutron and X-Ray Studies of Spin and Change Manipulation in Magnetic Nanostructures	320
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER46750 08/31/2013 Cha	SC-22.23	Bio-Inspired Routes for Synthesizing Efficient Nanoscale Platinum Electrocatalysts	230
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54738 12/14/2013 Diamond	SC-24.2	Investigations in Anomalous Transport and Ignition Physics	549
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54739 01/14/2013 Krasheninnikov	SC-24.2	Turbulence, Structures, and Macroscopic Transport in Edge, SOL, and Divertor Plasmas	277
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-07ER54908 01/14/2012 Krasheninnikov	SC-24.2	Framework Application for Core-Edge Transport Simulation (FACETS)	90
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER54917 01/14/2013 Moyer	SC-24.2	DIII-D Edge Physics and Disruptions	990
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER54912 12/14/2012 Tynan	SC-24.2	UCSD PISCES Program: Plasma Boundary Science, Materials Interactions, and Collaborative Fusion Research	1,800
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-06ER54871 05/31/2012 Tynan	SC-24.2	Nonlinear Drift Turbulence-Zonal Flow Interactions in a Laboratory Plasma Device	498
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-06ER54852 02/28/2012 Krasheninnikov	SC-24.2	Basic Physical Processes Involving Dust in Fusion Plasmas	100

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CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54757 12/31/2012 Najmabadi, Raffray, Tillack, Mau	SC-24.2	Advanced Design Program (ARIES)	980
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER54809 04/14/2014 Moyer	SC-24.2	Modeling Plasma Response to Non-Axisymmetric Magnetic Field Perturbations in Tokamak Boundaries	180
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER55080 07/14/2013 Surko	SC-24.2	New Plasma Tools for Physics with Low-Energy Antimatter	190
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER55076 07/14/2013 Karimabadi	SC-24.2	Kinetic Physics of Homogeneous Turbulence in Collisionless Plasmas	160
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER55038 08/14/2012 Beg	SC-24.2	Assessment of Proton Deflectometry for Exploding Wire Experiments	280
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-09ER55020 07/31/2011 Holland, Tynan	SC-24.2	UCSD Support for Fusion Simulation Project Planning Activity	80
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER55025 07/14/2014 O'Neil	SC-24.2	Fundamental Processes in Plasmas	350
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER64362 09/14/2011 Keeling	SC-23.1	A Study of the Role of Terrestrial Processes in the Carbon Cycle Based on Measurements of the Abundance and Isotopic	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-07ER64324 11/14/2011 Tartakovsky	SC-23.1	Hybrid Numerical Methods for Multiscale Simulations of Subsurface Biogeochemical Processes	80
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER16126 12/31/2012 Weare	SC-22.12	Development and Application of Next Generation Parameter Free Petascale Simulation Technology for Solution	150
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER16007 06/14/2014 Estelle	SC-22.13	Function of the Arabidopsis TIR1/AFB Auxin Receptors in Growth and Development	170
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER16013 04/30/2012 Fox	SC-22.13	Nanoscaled Components for Improved Efficiency in a Multipanel Photocatalytic Water-Splitting Device	155
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-98ER14879 10/31/2013 Continetti	SC-22.11	Dynamics and Energetics of Elementary Combustion Reactions and Transient Species	143
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-03ER15449 09/14/2012 Schroeder	SC-22.13	Molecular and Genetic Basis of Sodium/Potassium Transport and Distribution in Plants	240
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-90ER40546 06/30/2013 Kuti, Branson, Sharma, Griest	SC-25	Elementary Particle Physics	3,371

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CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-06ER25760 12/14/2011 Snavelly	SC-21.1	Collaborative Research: Performance Engineering Research Center	285
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER25815 08/31/2013 Tartakovsky	SC-21.1	Stochastic Analysis of Advection-Diffusion-Reactive Systems with Applications to Reactive Transport in Porous Media	100
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-10ER25993 08/31/2013 Snavelly	SC-21.1	Thrifty: An Exascale Architecture for Energy Proportional Computing	151
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER25930 01/14/2013 Baden	SC-21.1	Automatic Transformation of MPI Programs to Asynchronous, Graph Driven Form	200
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER25944 09/14/2012 Abarbanel	SC-21.1	Parameter Estimation and Model Validation of Nonlinear Dynamical Networks	200
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER65029 08/14/2013 Palsson	SC-23.2	A Systems Biology Knowledgebase: Context for Content	453
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER64764 06/14/2012 Somerville	SC-23.1	Collaborative Research: Using ARM Observations and Advanced Statistical Techniques to Evaluate CAM3 Clouds for	63
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER64736 04/30/2012 Zhang	SC-23.1	Improving Convection Parameterization Using ARM Observations and NCAR Community Atmosphere Model	169
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER64777 07/31/2012 Russell	SC-23.1	High Latitude Climate Modeling: ARM Takes us Beyond Case Studies	142
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-08ER64686 09/14/2011 Palsson, Zengler	SC-23.2	Systems-Level Understanding of Hydrogen Production by Thermotoga Maritima	463
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER65086 08/31/2013 Cessi	SC-23.1	Pulling the Meridional Overturning Circulation From the South	410
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER65090 09/14/2013 Keeling	SC-23.1	Developing Model Constraints of Northern Extra-Tropical Carbon Cycling Based on Measurements of the Abundance and Isotopic Composition of Atmospheric CO2	349
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER65115 09/14/2012 Kocarev	SC-23.1	An Interactive Multi-Model for Consensus on Climate Change	117
CALIFORNIA, UNIV. OF SAN FRAN San Francisco, CA	DE-FG02-10ER65063 08/31/2013 Miller	SC-23.1	Molecular Mechanisms of Bacterial Mercury Transformation	80
CALIFORNIA, UNIV. OF SAN FRAN San Francisco, CA	DE-FG02-10ER64932 02/14/2013 Balmain	SC-23.2	A System Genetics Approach to Identify Low Dose Radiation-Induced Lymphoma Susceptibility	326

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CALIFORNIA, UNIV. OF SAN FRAN San Francisco, CA	DE-FG02-10ER64984 06/14/2013 Miller	SC-23.1	Defining the Molecular-Cellular-Field Continuum of Mercury Detoxification	225
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-04ER25621 12/30/2011 Petzold	SC-21.1	Multiscale Simulation Algorithms for Biochemical Systems	0
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FC02-06ER41437 09/14/2012 Sugar	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	30
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-91ER40618 03/31/2014 Richman	SC-25	UCSB High Energy User Group	3,050
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-98ER14910 12/31/2011 Bazan	SC-22.12	Ring Walking/Oxidative Addition Reactions for the Controlled Synthesis of Conjugated Polymers	150
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-03ER15441 12/14/2011 Wodtke	SC-22.11	Electronically non-adiabatic dynamics at the gas-solid interface	210
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-03ER15467 09/14/2012 Scott	SC-22.12	Hierarchical Design of Supported Organometallic Catalysis for Hydrocarbon Transformations: Structures and Dynamics of Active Sites	540
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-89ER14048 06/30/2014 McFarland	SC-22.12	Investigations of C-H Bond Activation and Doped Metal Oxide Catalysts	160
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-10ER16081 11/30/2012 Seshadri	SC-22.12	Platinum-Group Metal (PGM) Substituted Complex Oxide Catalysts	156
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-09ER16067 08/14/2012 Hayton	SC-22.12	Exploring the Redox and Oxo Substitution Chemistry of the Uranyl Ion: Implications for Separations and Environmental	232
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-08ER15991 02/29/2012 Gibou	SC-22.12	Multiscale Investigation and Modeling of Flow Mechanisms Related to CO2 Sequestration in Geologic Formations	190
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-10ER16131 01/31/2013 Boles	SC-22.12	Fault-Related CO2 Degassing, Geothermics, and Fluid Flow in Southern California Basins---Physiochemical Evidence and	96
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-94ER54275 05/31/2013 Odette	SC-24.2	A Science-Based Fast Track for Advanced Fusion Structural Materials Development	725
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-10ER46759 02/29/2012 Chabinyc	SC-22.23	Molecular Design of Doped Polymers for Thermoelectric Systems	200
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-09ER46659 09/14/2012 Nguyen	SC-22.23	SISGR - Mechanistic Studies of Charge Injection from Metallic Electrodes into Organic Semiconductors Mediated by Ionic Functionalities	300

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FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-06ER46314 07/31/2013 Safinya	SC-22.23	Miniaturized Hybrid Materials Inspired by Nature	250
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-07ER46434 08/14/2013 Van de Walle	SC-22.22	Computational Studies of Hydrogen Interfaces with Storage Materials	197
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-08ER46524 08/31/2014 Balents	SC-22.22	Interplay of Electron Correlations and Spin-Orbit Coupling	90
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-08ER46535 08/31/2014 Heeger	SC-22.23	Charge Recombination, Transport Dynamics, and Interfacial Effects in Organic Solar Cells	520
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-02ER46006 05/31/2013 Morse	SC-22.23	Biological and Biomimetic Low-Temperature Routes to Materials for Energy Applications	418
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-87ER45331 02/28/2014 Israelachvili	SC-22.23	Relationships Between the Adhesion, Friction and Nano/Micro-Structure of Materials, Surfaces and Films	282
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-10ER41698 08/31/2012 Monreal	SC-25	Ultra-High-Resolution Time Projection Chambers withg Liquid Crystal Backplanes	141
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-10ER41670 04/14/2015 Monreal	SC-26.1	RECOVERY ACT - New Experiments to Measure the Neutrino Mass Scale	759
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-06ER46319 08/31/2013 Shastry	SC-22.22	Theoretical Studies in Very Strongly Correlated Matter	230
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-05ER46232 08/14/2012 Zhang	SC-22.21	Structure and Charge Carrier Dynamics at Interfaces in Nancomposite Materials	150
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-04ER63750 12/14/2011 Liu	SC-23.2	Artificial Retina Project: Wireless Link and Microelectronics	260
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-04ER41286 10/31/2012 Seiden	SC-25	Research in High Energy Physics	2,533
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FC02-06ER41438 09/14/2012 Woosley	SC-25	SciDAC: Computational Astrophysics Consortium: 3 Supernovae, Gamma Ray Bursts, and Nucleosynthesis	254
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FC02-06ER25768 12/14/2011 Long	SC-21.1	Petascale of Data Storage Institute	300
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FC02-10ER26017 08/31/2013 Long	SC-21.1	Dynamic Non-hierarchical File Systems for Exscale Storage	476

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ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FC02-10ER26033 08/31/2013 Brandt	SC-21.1	Adding Data Management Services to Parallel File Systems	325
CHULA VISTA, CITY OF Chula Vista, CA	DE-FG02-10CH20011 12/31/2013 Stone	SC-23	Environmental, Sustainability, Energy and Initial Land Use Planning and Entitlements for the University Park and Research	972
COMPX Del Mar, CA	DE-FC02-06ER54856 01/14/2012 Harvey	SC-24.2	Center for Simulation of Wave Interactions with MHD - SWIM	75
COMPX Del Mar, CA	DE-FC02-01ER54649 03/31/2016 Harvey	SC-24.2	Center for Simulation of Wave Plasma Interactions	160
COMPX Del Mar, CA	DE-FG02-04ER54744 12/14/2012 Harvey	SC-24.2	Advanced Development of the CQL3D Fokker-Planck Code and GENRAY Ray Tracing Codes	118
DOHENY EYE INSTITUTE Los Angeles, CA	DE-FC02-04ER63735 12/31/2011 Humayun	SC-23.2	Artificial Retina: Bioelectronics Research Laboratory	1,800
ELECTRIC POWER RESEARCH INST. Palo Alto, CA	DE-FG02-10ER65068 09/14/2011 Maitra	SC-23.2	Ultrafast Power Processor for Smart Grid	972
GENERAL ATOMICS San Diego, CA	DE-FC02-08ER54963 02/14/2016 Candy	SC-24.2	Center for the Study of Plasma Microturbulence	200
GENERAL ATOMICS San Diego, CA	DE-FC02-08ER54952 03/31/2016 Choi	SC-24.2	SciDAC Center for Simulation of Wave-Plasma Interactions - GA	50
GENERAL ATOMICS San Diego, CA	DE-FC02-08ER54977 02/14/2016 Waltz, Chu	SC-24.2	Gyrokinetic Simulation of Energetic Particle Turbulence and Transport	160
GENERAL ATOMICS San Diego, CA	DE-FC02-09ER55016 07/31/2011 Chan	SC-24.2	Fusion Simulation Program	140
GENERAL ATOMICS San Diego, CA	DE-FG02-09ER55035 08/14/2013 Stephens	SC-24.2	Ion-Fast Ignition - Establishing a Scientific Basis for Inertial Fusion Energy	300
GENERAL ATOMICS San Diego, CA	DE-FC02-06ER54873 03/31/2013 Snyder	SC-24.2	Edge Simulation Laboratory	179
GENERAL ATOMICS San Diego, CA	DE-FC02-06ER54861 01/14/2012 Schissel	SC-24.2	SciDAC - Center for Simulation of Wave Interactions with MHD - General Atomics Support of ORNL Collaboration	125
GENERAL ATOMICS San Diego, CA	DE-FG02-05ER54834 05/31/2012 Stephens	SC-24.2	Advanced Concept Exploration of Fast Ignition	1,604

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GENERAL ATOMICS San Diego, CA	DE-FC02-04ER54698 10/31/2013 Taylor, Stambaugh	SC-24.2	The DIII-D Fusion Research Program and Advanced Fusion Technology Research and Development	51,778
GENERAL ATOMICS San Diego, CA	DE-FG02-97ER54402 05/14/2014 Lee	SC-24.2	Advancing Precollege Science and Mathematics Education	208
GENERAL ATOMICS San Diego, CA	DE-FG02-99ER54522 02/28/2014 La Haye	SC-24.2	National Spherical Torus Experiment: Collaborative Research on Configuration Optimization	250
GENERAL ATOMICS San Diego, CA	DE-FG02-95ER54309 01/14/2014 Chan	SC-24.2	Theory and Simulation of Fusion Plasmas	2,177
GEOLOGICAL SURVEY, U. S. Menlo Park, CA	DE-AI02-09ER64743 08/14/2012 Curtis	SC-23.1	Multi-Scale Assessment of Prediction Uncertainty in Coupled Reactive Transport Models	170
GEOLOGICAL SURVEY, U. S. Menlo Park, CA	DE-AI02-10ER65007 06/30/2013 Curtis, Davis	SC-23.1	Upscaling of U(VI) Desorption and Transport from Decimeter-Scale Heterogeneity to Plume-Scale Modeling	246
HEWLETT-PACKARD COMPANY Palo Alto, CA	DE-FC02-10ER25988 08/31/2013 Schreiber	SC-21.1	Blackcomb: Hardware-Software Co-Design for Non-Volatile Memory in Exascale Systems	651
HINTON ASSOCIATES Escondido, CA	DE-FC02-07ER54922 02/14/2012 Hinton	SC-24.2	SciDAC - Center for Plasma Edge Simulation - Hinton Associates Support of NYU Collaboration	66
IETY FOR COMPUTATIONAL BIOLOGY La Jolla,, CA	DE-FG02-06ER64270 06/30/2012 Rost	SC-23.2	ISMB 2009-2011 Conference Travel Support for Students and Young Scientists	35
J. CRAIG VENTOR INSTITUTE San Diego, CA	DE-FG02-10ER64985 06/14/2013 Gorby	SC-23.1	Bacterial Nanowires and Extracellular Electron Transfer to Heavy Metals and Radionuclides by Bacterial Isolates from DOE Field Research Centers	395
LOMA LINDA UNIVERSITY Loma Linda, CA	DE-FG02-07ER64345 12/31/2011 Gridley	SC-23.2	Th Cell Gene Expression and Function in Response to Low Dose and Acute Radiation	0
LOMA LINDA UNIVERSITY Loma Linda, CA	DE-FG02-07ER64348 01/31/2012 Burrell	SC-23.2	The Contribution of Tissue Level Organization to Genomic Stability Following Low Dose/Low Dose Rate Gamma and Proton Irradiation	0
LOMA LINDA UNIVERSITY Loma Linda, CA	DE-FG02-09ER64787 08/31/2012 Nelson	SC-23.2	Low Dose Ionizing Radiation Modulates Immune Function	377
MONTEREY BAY AQUARIUM RES INST Moss Landing, CA	DE-FG02-10ER64993 06/30/2013 Worden	SC-23.2	Connecting Genomes to Physiology and Response in Marine Photosynthetic Eukaryotes: Systems Biology of the Green Alga Micromonas	707
NATIONAL AERONAUT & SPACE ADM Moffett Field, CA	DE-AI02-07ER64487 08/14/2011 Bebout	SC-23.2	NanoSIP: Developing Community Imaging for Phylogenetic and Functional Characterization Using Cyanobacterial Mats	0

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NATIONAL AERONAUT & SPACE ADM Moffett Field, CA	DE-AI02-06ER25796 09/14/2011 Yee	SC-21.1	Simulations of Turbulent Flows With Strong Shocks and Density Variations	100
NATIONAL AERONAUT & SPACE ADM Moffett Field, CA	DE-AI02-09ER64784 06/30/2012 Globus	SC-23.2	Oxidative Stress and Skeletal Health with Low Dose, Low LET Ionizing Radiation	395
NAVAL POSTGRADUATE SCHOOL Monterey, CA	DE-AI02-07ER64461 09/29/2011 Maslowski	SC-23.1	Collaborative Research: Towards Advanced Understanding and Predictive Capability of Climate Change in the Arctic Using a High-Resolution Regional Arctic ...	158
OCCIDENTAL COLLEGE Los Angeles, CA	DE-FG02-06ER54882 07/14/2013 Eggleston	SC-24.2	Studies of Particle Transport in a Non-Plasma Trap	60
SALK INST. FOR BIOL. STUDIES La Jolla, CA	DE-FG02-04ER15517 02/14/2014 Ecker	SC-22.13	Analysis of Ethylene-Regulated Growth Networks in Arabidopsis	200
SALK INST. FOR BIOL. STUDIES La Jolla, CA	DE-FG02-04ER15540 05/14/2014 Chory	SC-22.13	Signal Transduction Pathways that Regulate CAB Gene Expression	180
SAN DIEGO STATE UNIVERSITY San Diego, CA	DE-FG02-10ER65089 09/14/2013 Oechel	SC-23.1	Seasonal and Inter-Annual Controls on CO2 Flux in Arctic Alaska	125
O STATE UNIVERSITY RES. FOUND. San Diego, CA	DE-FG02-03ER41272 05/31/2012 Johnson	SC-26.1	Mean-Field and Moment Methods Applied to Nuclear Structure and Reactions	70
O STATE UNIVERSITY RES. FOUND. San Diego, CA	DE-FC02-09ER41587 11/30/2011 Johnson	SC-26.1	Building a Universal Nuclear Energy Density Functional	55
O STATE UNIVERSITY RES. FOUND. San Diego, CA	DE-FG02-09ER64765 06/14/2012 Shen	SC-23.1	Using ARM Observations to Evaluate GCM Cloud Statistics for Development of Stochastic Cloud-Radiation	35
SAN FRANCISCO STATE UNIVERSITY San Francisco, CA	DE-FG02-92ER40711 01/31/2014 Greensite	SC-25	Research in Theoretical High Energy Physics	120
N JOSE STATE UNIVERSITY FOUND. San Jose, CA	DE-FG02-07ER15853 02/29/2012 Silber	SC-22.12	Support for the American Chemical Society's Summer Schools in Nuclear and Radiochemistry	108
SCRIPPS RESEARCH INSTITUTE La Jolla, CA	DE-FG02-03ER46051 06/30/2013 Schultz	SC-22.23	Biopolymers Containing Unnatural Building Blocks	500
SOUNDVISION PRODUCTIONS Berkeley, CA	DE-FG02-07ER64479 08/31/2011 Scott	SC-23.2	Science Literacy Project for Mid-Career Public Radio Reporters, Producers, Editors, News Directors and Members of the	0
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER64128 02/29/2012 Pohost	SC-23.2	Development of Advanced Surgical Robotics "DARS"	0

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SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-06ER64322 03/14/2012 Pohost	SC-23.2	Development of Advanced Surgical Robotics "DARS"	0
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-04ER46130 04/14/2013 Vashishta	SC-22.22	Thermomechanical Properties of Thin Films and Membranes of Functionalized Nanocrystals and Nanowire Arrays: Multimillion-to-Billion Atom Simulations	180
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-07ER46376 05/31/2013 Cronin	SC-22.22	Energy Transport in Graphene	142
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER46240 08/31/2014 Haas	SC-22.22	Quantum Quench Dynamics-Crossover Phenomena in Non-Equilibrium Correlated Quantum Systems	90
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-92ER40745 11/14/2013 Muggli	SC-25	Program for Plasma-Based Concepts for Future High Energy Accelerators	420
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-84ER40168 02/28/2014 Warner, Bars	SC-25	Theoretical Particle Physics	245
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-10ER25967 12/14/2012 Ghanem	SC-21.1	RECOVERY ACT - Analysis and Reduction of Complex Networks Under Uncertainty	295
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-09ER25939 09/14/2012 Hochstein	SC-21.1	Software Construction and Composition Tools for Petascale Computing	95
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-09ER25900 07/31/2012 Lehman	SC-21.1	Virtualized Network Control (VNC) Project	0
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-08ER25834 09/14/2012 Chame	SC-21.1	Compiler-Directed Automatic Performance Tuning (TUNE)	100
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FC02-06ER25757 09/14/2011 Kesselman	SC-21.1	A Center for Enabling Distributed Petascale Science	480
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FC02-06ER25765 12/14/2011 Lucas	SC-21.1	Performance Engineering Research Center (PERC-3)	1,157
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FC02-06ER25773 09/14/2011 Chervenak	SC-21.1	Scaling the Earth System Grid to Petascale Date	230
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FC02-06ER25788 09/14/2012 Vashishta	SC-21.1	Hierarchical Petascale Simulation Framework for Stress Corrosion Cracking	108
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER15629 12/31/2014 Reisler	SC-22.11	Photoinitiated Reactions of Radicals and Diradicals in Molecular Beams	135

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SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER15685 12/14/2011 Krylov	SC-22.11	Theoretical Modeling of Spin-Forbidden Channels in Combustion Reactions	100
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-10ER16145 04/30/2013 Wittig	SC-22.11	Detailed Studies of Hydrocarbon Radicals: C2H Dissociation Dynamics	176
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-10ER16132 01/31/2013 Sahimi	SC-22.12	Nanoporous Membranes for Hydrogen Production: Experimental Studies and Molecular Simulation	160
SRI INTERNATIONAL Menlo Park, CA	DE-FG02-10ER65032 08/14/2013 Karp	SC-23.2	Curation and Computational Design of Bioenergy-related Metabolic Pathways (SRI Proposal ECU 10-602)	442
STANFORD UNIVERSITY Menlo Park, CA	DE-FG02-10ER65059 08/31/2013 Levin	SC-23.2	New Strategies for 0.5 mm Resolution, High Sensitivity, Multi-Radionuclide Imaging	500
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER65042 07/31/2013 Weyant	SC-23.1	Research in Integrated Assessment Inter-Model Development, Testing and Diagnostics	2,930
STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER64837 08/14/2012 Diffenbaugh	SC-23.1	Impacts of High Resolution Extreme Events on US Energy Demand and CO2 Emissions in the 21st Century	57
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER46163 07/31/2014 Nix	SC-22.22	Mechanical Properties of Materials with Nanometer Scale Dimensions and Microstructures	150
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER46391 03/31/2013 Dauskardt	SC-22.22	Molecular-Reinforced Hybrid Glass Films with Superior Thermo-Mechanical Properties	200
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER46426 08/31/2013 Fan	SC-22.22	Nanophotonics Enhanced Solar Cells	270
STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER46579 07/31/2014 Prinz	SC-22.13	Center on Nanostructuring for Efficient Energy Conversion -- EFRC	4,000
STANFORD UNIVERSITY Stanford, CA	DE-FG02-05ER64136 08/31/2011 McAdams	SC-23.2	Dynamic Spatial Organization of Multi-Protein Complexes Controlling Microbial Polar Organization, Chromosome	0
STANFORD UNIVERSITY Stanford, CA	DE-FG02-08ER64552 04/30/2012 Spormann	SC-23.2	The Hopkins Microbiology Course	15
STANFORD UNIVERSITY Stanford, CA	DE-FG02-95ER62051 06/14/2014 Weyant	SC-23.1	Summer Workshops on Climate Change Impacts and Integrated Assessment of Climate Change	159
STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER55059 08/14/2012 Cappelli	SC-24.2	Plasma-Enhanced Combustion of Hydrocarbon Fuels and Fuel Blends Using Nanosecond Pulsed Discharges	140

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STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER46632 09/14/2012 Swartz	SC-22.23	Using In Vitro Maturation and Cell-Free Evolution to Understand (FeFe)hydrogenase Activation and Active Site Constraints	265
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER46731 04/30/2013 Bent	SC-22.23	Studies of Surface Reaction Mechanisms in Atomic Layer Deposition	200
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER41276 07/31/2013 Byer	SC-25	Development of High-Gradient Extended Dielectric Based Laser-Driven Particle Accelerator Structures	316
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER41295 03/31/2013 Cabrera, Gratta	SC-25	Stanford Non-Accelerator High Energy Physics Program	989
STANFORD UNIVERSITY Stanford, CA	DE-FC02-06ER25787 12/31/2011 Lele	SC-21.1	Simulations of Turbulent Flows With Strong Shocks	494
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER16198 09/14/2013 Waymouth	SC-22.12	Enabling Catalytic Strategies for Biomass Conversion	160
STANFORD UNIVERSITY Stanford, CA	DE-FG02-06ER25726 03/31/2014 Durlinsky	SC-21.1	Multiscale Analysis and Computation for Flows in Heterogeneous Media	0
STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER25917 09/14/2012 Saunders	SC-21.1	Numerical Optimization Techniques for Systems Biology	481
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER26026 08/31/2013 Alonso	SC-21.1	Large-Scale Uncertainty and Error Analysis for Time-Dependent Fluid/Structure Interactions in Wind Turbine Applications	223
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER26028 08/31/2013 Iaccarino	SC-21.1	A High-Performance Embedded Hybrid Methodology for Uncertainty Quantification With Applications	159
STANFORD UNIVERSITY Stanford, CA	DE-FG02-88ER13857 02/29/2012 Hanson, Bowman	SC-22.11	Spectroscopy and Kinetics of Combustion Gases at High Temperatures	160
STANFORD UNIVERSITY Stanford, CA	DE-FG02-84ER13251 01/14/2014 Fayer	SC-22.11	Confinement, Interfaces, and Ions: Dynamics and Interactions in Water, Proton Transfer, and Room Temperature Ionic Liquid Systems	252
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER15588 05/31/2014 Pollard, Aydin	SC-22.12	Structural Heterogeneities and Paleo Fluid Flow in An Analog Sandstone Reservoir	282
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER15423 06/30/2013 Nur	SC-22.12	Porous Rock with Fluid: Impact of Heterogeneity and Scale on Relations between Rock Properties	227
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER15454 07/31/2013 Borja	SC-22.12	Mechanisms of Pore Collapse in High-Porosity Rocks	139

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STANFORD UNIVERSITY Stanford, CA	DE-FG02-08ER15990 08/31/2011 Tchelepi	SC-22.12	Multiscale Investigation and Modeling of Flow Mechanisms Related to CO2 Sequestration in Geologic Formations	222
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER15892 06/30/2014 Moerner	SC-22.13	Conformational and Chemical Dynamics of Single Proteins in Solution by Suppression of Brownian Motion	170
			Total for CA :	209,739

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ASPEN CENTER FOR PHYSICS Aspen, CO	DE-FG02-04ER41297 12/31/2011 Bhatt, Pinsky	SC-25	2009 Aspen Winter Conference on High Energy Physics	10
CLIMATE CENTRAL Boulder, CO	DE-FG02-10ER65123 09/14/2013 Tebaldi	SC-23.1	Detection and Attribution: New Frontiers and Applications	145
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-10ER65008 06/30/2013 Rodriguez	SC-23.1	Upscaling of U(VI) Desorption and Transport from Decimeter-scale Heterogeneity to Plume-scale Modeling	163
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-08ER64659 08/31/2012 Revil	SC-23.1	Advanced Self-Potential Inversion: Development and Use for Investigating Natural Recharge Processes at the ORNL IFC	160
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-09ER64745 04/30/2012 Rodriguez	SC-23.1	Multi-Scale Assessment of Prediction Uncertainty in Coupled Reactive Transport Models	18
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-10ER16157 10/31/2011 Gorman	SC-22.12	Kinetics and Mechanisms of Calcite Reactions with Saline Waters	95
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-09ER16018 06/14/2012 Scales	SC-22.12	Characterization of Electrical and Mechanical Properties of Rocks at Sub-Millimeter Scales	148
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-93ER40789 03/31/2014 Greife	SC-26.1	Nuclear Structure and Astrophysics with Unstable Beams	271
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-07ER46397 07/14/2013 Reimanis	SC-22.22	Mechanical Behavior in Ceramics with Unusual Thermal-Mechanical Properties	120
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-05ER46242 08/14/2014 Koh	SC-22.23	Energy Storage in Clathrate Hydrogen Material	250
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-10ER41704 09/30/2012 Greife	SC-26.2	Development of a High-Density Gas-Jet Target for Nuclear Astrophysics and Reaction Studies with Rare Isotope Beams	750
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-07ER46448 08/14/2014 Wang	SC-22.23	Directed Assembly of Rod-Coil Block Copolymers by Combined External Fields	0
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-07ER64350 01/14/2012 Bedford	SC-23.2	Genetic Factors Affecting Susceptibility to Low Dose and Dose Rate Irradiation	346
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FC02-06ER64302 08/31/2011 Randall	SC-23.1	Design and Testing of a Global Cloud-resolving Model	863
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-08ER64572 07/31/2011 Kummerow	SC-23.1	Use of ARM Mobile Facility (AMF) Data to Study the Aerosol Indirect Effects in China	70

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COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-04ER63890 08/14/2011 Paul, Paustian	SC-23.1	Ecosystem Controls on C and N Sequestration Following Afforestation of Agricultural Lands	0
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FC02-07ER54909 02/14/2012 Estep	SC-24.2	Framework Application for Core-Edge Transport Simulations (FACETS)	90
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-93ER40788 12/14/2013 Toki, Harton, Wilson	SC-25	Research in High Energy Physics	683
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-03ER41255 06/30/2014 Fairbank	SC-25	New Technique for Barium Daughter Ion Identification in a Liquid Xe-136 Double Beta Decay Experiment	145
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-10ER26031 08/31/2013 Estep	SC-21.1	Enabling Predictive Simulation and UQ of Complex Multiphysics PDE Systems by the Development of Goal-Oriented Variational	102
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-10ER25976 03/14/2013 Strout	SC-21.1	Algorithms and Software for Communication Avoidance and Communication Hiding at the Extreme Scale (CACHE Institute)	108
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-10ER25982 04/14/2015 Strout	SC-21.1	Separating Algorithm and Implementation via Programming Model Injection (SAIMI)	750
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-10ER16193 09/14/2013 Chen	SC-22.12	Catalytic Conversion of Glucose and Cellulose into HMF: From a Fundamental Understanding to Discrete and Recyclable Catalyst Discovery	150
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-04ER15591 10/31/2013 Elliott	SC-22.13	Transition Metal Polypyridine Complexes: Studies of Mediation in Dye-Sensitized Solar Cells and Charge Separation in	160
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-04ER15592 12/31/2013 Rocca	SC-22.11	High Harmonic Generation in Discharge-Ionized Plasma Channels	142
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-03ER15453 10/31/2012 Finke	SC-22.12	Supported Nanocluster Catalyst Formation Kinetic and Mechanistic Fundamental Studies	175
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-96ER14647 10/31/2011 Lundeen	SC-22.11	Properties of Actinide Ions from Measurements of Rydberg Ion Fine Structure	130
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-09ER64774 06/14/2012 Randall	SC-23.1	Challenges for Cumulus Parameterization in a Model with O(20 to 50)km Grid Spacing	147
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-09ER64772 06/30/2012 Prenni	SC-23.1	Ice Nuclei Relation to Aerosol Properties in Mixed-Phase Clouds: Data Analysis and Model Parameterization	68
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-08ER64647 08/14/2011 Kampf	SC-23.1	Climate Change Impacts to Hydropower Generation in Pacific Northwest River Basins	106

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COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-08ER64622 09/28/2011 Reardon	SC-23.2	Sustainable Biofuels Development Center	486
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-08ER64629 08/14/2014 Leach	SC-23.2	An Integrated Approach to Improving Plant Biomass Production	350
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-10ER64987 09/14/2012 Troxell	SC-23.2	Smart Grid Simulation Laboratory	874
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER64894 09/14/2012 Ryan	SC-23.1	Mercury Release from Natural Organic Matter (NOM), Minerals and NOM-Coated Mineral Surfaces	103
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER65013 07/31/2011 Andrews	SC-23.1	RACORO Aerosol Data Processing	48
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER65049 08/31/2012 Barnes	SC-23.2	Smart Grid Communication Security Project	972
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER64639 08/14/2011 Ryan	SC-23.1	Colloid-Facilitated Transport of Radioactive Cations in the Vadose Zone: Field Experiments at Oak Ridge Field Laboratory	101
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER64661 02/28/2013 Rajaram	SC-23.1	Scale-Dependent Fracture-Matrix Interactions and their Impact on Radionuclide Transport	80
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER65113 09/14/2013 Duane	SC-23.1	An Interactive Multi-Model for Consensus on Climate Change	188
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER65077 09/14/2013 Monson	SC-23.1	Carbon Cycling Dynamics in Response to Pine Beetle Infection and Climate Variation	349
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-93ER14364 10/31/2011 Ellison	SC-22.11	Interfacial Oxidation of Complex Organic Molecules	165
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-94ER14413 04/30/2012 Greene	SC-22.11	Physics of Correlated Systems	145
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER15613 11/14/2013 Bohn	SC-22.11	Reactive Scattering of Ultracold Molecules	65
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-02ER15346 11/30/2011 Cundiff	SC-22.11	Optical Two-dimensional Spectroscopy of Disorder Semiconductor Quantum Wells and Quantum Dots	157
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-99ER14982 11/14/2011 Kapteyn, Murnane	SC-22.11	Molecular Dynamics Probed by Coherent Electron and X-rays	170

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COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-99ER14990 12/31/2011 Holland	SC-22.11	Novel Light Sources Based on Ultracold Atoms in Collective Optical Cavity Systems	40
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER16091 09/14/2012 Schwartz	SC-22.12	SISGR: Mapping Non-Covalent Surface Functionality Using Single-Molecule Probes	220
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER16103 09/14/2012 Becker	SC-22.11	SISGR: Coherent Control of Electron Dynamics	150
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER16021 06/14/2012 Nesbitt	SC-22.11	Spectroscopy, Kinetics, and Dynamics of Combustion Radicals	144
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-05ER15711 12/31/2011 Ye	SC-22.11	Cold and ultracold polar molecules	135
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER15912 08/31/2013 Jonas	SC-22.13	Study of Multiple Exciton Generation with New Multi-Dimensional Spectroscopies	228
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER15959 06/14/2014 Michl	SC-22.12	Imaging of Conformational Changes	205
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER15890 10/14/2011 Damrauer	SC-22.13	Applications to Adaptive Quantum Control to Research Questions in Solar Energy Conversion	150
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER25887 08/31/2012 Cai	SC-21.1	Scalable Optimization Algorithms for Systems Governed by Multi-Physics PDEs	247
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER25574 05/14/2013 Manteuffel	SC-21.1	First-Order System Least Squares, (FOSLS), for Nonlinear Systems Arising from DOE Applications	242
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER16206 08/31/2013 Medlin	SC-22.12	Selectivity Control Through Modification of Metal Catalysts with Organic Monolayers	210
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-06ER25784 09/14/2012 Cai, McCormick	SC-21.1	Towards Optimal Petascale Simulations (TOPS)	492
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER41290 11/30/2012 Ford	SC-25	Elementary Particles and High Energy Phenomena, Tasks A, B, C, & T	1,832
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER41317 05/31/2013 Cary	SC-25	Chaotic Dynamics and Advanced Computation for Beams and Accelerators	245
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER41244 02/29/2012 Nagle	SC-26.1	Experimental Relativistic Heavy Ion Physics at the University of Colorado at Boulder	336

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-06ER54846 01/14/2012 Parker	SC-24.2	SciDAC - Center for Plasma Edge Simulation	120
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER54735 12/31/2012 Cary	SC-24.2	Analysis and Direct Numerical Simulation of RF Heating Processes and Advanced Computational Methods for Fusion	110
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER46652 09/14/2012 Murnane	SC-22.21	SISGR: Ultrafast Magnetism Dynamics Measure Using Tabletop Ultrafast EUV Sources	265
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER46686 04/14/2015 Hermele	SC-22.22	RECOVERY ACT - New States of Matter and Quantum Simulation with Ultracold Alkaline Earth Fermions	600
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER46687 04/14/2015 Jayaraman	SC-22.23	RECOVERY ACT - Theory and Simulation of Tailored Assembly in Rod-Coil Polymer Nanocomposite	600
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER55071 04/14/2015 Munsat	SC-24.2	RECOVERY ACT - Physics Analysis of Microwave Imaging Data from DIII-D & KSTAR	754
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER54995 06/14/2014 Munsat	SC-24.2	Assessment of Edge Turbulence and Convective Transport Through Velocity Field Analysis	33
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-08ER54987 07/14/2011 Chen	SC-24.2	Center for Gyrokinetic/MHD Hybrid Simulation of Energetic Particle Physics in Toroidal Plasmas (CSEPP)	80
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-08ER54971 02/14/2016 Parker	SC-24.2	Center for Extended Magnetohydrodynamics	50
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER54954 01/31/2014 Parker	SC-24.2	Gyrokinetic Turbulence Simulation of Turbulent Transport	100
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER64539 04/30/2012 Ervens	SC-23.1	A Study of Cloud Processing of Organic Aerosols Using Models and CHAPS Data	118
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER64462 08/14/2012 Cassano	SC-23.1	Collaborative Research: Towards Advanced Understanding and Predictive Capability of Climate Change in the Arctic Using a	164
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER64464 08/14/2011 Tufo	SC-23.1	Petascale Atmospheric General Circulation Models for CCSM	388
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER64468 08/14/2011 Vasilyev	SC-23.1	An Integrated Physics-and Numbers-Based Mesoscale Modeling and Simulation of Global Ocean Circulation	196
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER46489 06/30/2013 Feldheim, Eaton	SC-22.23	RNA Mediated Evolution of Catalysts for the Production of Alternative Fuels	250

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER46403 04/30/2013 Raj	SC-22.22	The Coupling Between Interfacial Charge and Mechanical Deformation at High Temperatures in Ceramics	150
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER41661 04/14/2015 Marino	SC-25	RECOVERY ACT: Probing Neutrino Properties with Long-Baseline Neutrino Beams	600
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER46066 03/31/2013 Dessau	SC-22.22	Dynamics of Electronic Interactions in Superconductors and Related Materials	250
FRONT RANGE SCIENTIFIC COMP. Denver, CO	DE-FG02-07ER25814 02/28/2015 Henson	SC-21.1	Funding Application to Support the Annual Copper Mountain Conferences on Multigrid and Iterative Methods, Copper Mountain, Colorado, 2011-2014	12
GEOLOGICAL SURVEY, U.S. Lakewood, CO	DE-AI02-09ER64892 09/14/2012 Aiken	SC-23.1	Mercury Release from Organic Matter (OM) and OM-Coated Mineral Surfaces	32
LODESTAR RESEARCH CORP Boulder, CO	DE-FG02-97ER54392 10/31/2011 D'Ippolito	SC-24.2	Basic Research in Magnetically-Confined Fusion Plasmas	597
LODESTAR RESEARCH CORP Boulder, CO	DE-FG02-02ER54678 08/14/2014 Myra	SC-24.2	Edge and Scrape-Off-Layer Physics for NSTX	58
LODESTAR RESEARCH CORP Boulder, CO	DE-FC02-05ER54823 03/31/2016 D'Ippolito	SC-24.2	Center for Simulation of Wave Plasma Interactions	75
E OF STANDARDS AND TECHNOLOGY Boulder, CO	DE-AI02-09ER46671 09/14/2012 Silva	SC-22.21	SISGR: Ultrafast Magnetism Dynamics Measured Using Tabletop Ultrafast EUV	134
E OF STANDARDS AND TECHNOLOGY Boulder, CO	DE-AI02-10ER41701 09/14/2013 Goodrich	SC-25	Critical Current Metrology for Nb3Sn Conductor Development	53
E OF STANDARDS AND TECHNOLOGY Boulder, CO	DE-AI02-10ER41702 09/14/2013 Cheggour	SC-25	Electromechanical Properties of Superconductors for DOE/HEP Applications	130
NATIONAL OCEAN & ATMOS ADMIN Boulder, CO	DE-AI02-10ER64936 02/28/2013 Feingold	SC-23.1	The Radiative Properties of Small Clouds: Multi-Scale Observation and Modeling	139
SPEC INC Boulder, CO	DE-FG02-10ER64933 09/30/2011 Lawson	SC-23.1	Synthesis of In Situ Microphysical Measurements with Remote Retrievals and Models	164
TECH-X CORPORATION Boulder, CO	DE-FC02-07ER25805 11/14/2010 Shasharina	SC-21.1	Center for Technology for Advanced Scientific Component Software (TASCS)	86
TECH-X CORPORATION Boulder, CO	DE-FC02-09ER55018 07/31/2011 Cary	SC-24.2	Fusion Simulation Project (FSP)	170

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
TECH-X CORPORATION Boulder, CO	DE-FG02-09ER55006 02/14/2012 Smithe	SC-24.2	Non-Axisymmetric Modeling of RF in Tokamaks	95
TECH-X CORPORATION Boulder, CO	DE-FC02-08ER54953 03/31/2016 Smithe	SC-24.2	SciDAC Center for Simulation of Wave Plasma Interactions	85
TECH-X CORPORATION Boulder, CO	DE-FC02-08ER54972 02/14/2016 Kruger	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	84
TECH-X CORPORATION Boulder, CO	DE-FC02-07ER54907 01/14/2012 Cary	SC-24.2	Framework Application for Core-Edge Transport Simulations (FACETS)	699
TECH-X CORPORATION Boulder, CO	DE-FC02-06ER54875 06/30/2012 Kruger	SC-24.2	NIMROD Development and Applications for Advanced Simulations of Tokamak Plasmas	99
TECH-X CORPORATION Boulder, CO	DE-FC02-06ER54864 01/14/2012 Kruger	SC-24.2	Center for Simulation of Wave Plasma Interactions with Magnetohydrodynamics	50
TECH-X CORPORATION Boulder, CO	DE-FC02-07ER41499 08/31/2012 Cary	SC-25	SciDAC: Community Petascale Project for Accelerator Science and Simulation	347
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FC02-06ER25772 09/14/2011 Middleton	SC-21.1	Scaling the Earth System Grid to Petascale Data	560
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-08ER64574 06/14/2012 Grabowski	SC-23.1	Using Atmospheric Radiation Measurement (ARM) Observations to Validate and Improve Cloud Microphysical Schemes	136
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-08ER64575 06/14/2012 Dudhia	SC-23.1	Study of Multi-Scale Cloud Processes Over the Tropical Western Pacific Using Cloud Resolving Models Constrained by Satellite	131
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-08ER64535 01/14/2012 Smolarkiewicz	SC-23.1	Collaborative Research: Continuous Dynamic Grid Adaptation in a Global Atmospheric Model: Application and Refinement	29
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FC02-07ER64340 12/14/2011 Gent, Collins	SC-23.1	A Scalable and Extensible Earth System Model for Climate Change Science	535
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-05ER63993 12/31/2011 Madronich	SC-23.1	Secondary Organic Aerosols: Detailed Modeling and Comparison with MILAGRO Observations	160
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FC02-97ER62402 12/31/2011 Washington	SC-23.1	DOE and UCAR Cooperative Agreement - Climate Modeling and Computer Hardware, Advanced Mathematics and Model Physics	2,876
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-08ER64594 07/31/2012 Otto-Bliesner	SC-23.1	A Collaborative Proposal: Simulating and Understanding Abrupt Climate-Ecosystem Changes During Holocene With NCAR-CCSM3	45

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-10ER65116 09/14/2013 Tribbia	SC-23.1	An Interactive Multi-Model Consensus on Climate Change	50
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-10ER65117 09/14/2013 Branstator	SC-23.1	Predictability and Impacts of Intrinsic Decadal Basin Modes in a Warming Climate	191
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-10ER65119 09/14/2013 Tribbia	SC-23.1	Regional Projections of Climate at Decadal Time Scales: High Resolution Global Predictions and Regionally Resolved	450
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-10ER65067 08/31/2013 Middleton	SC-23.1	Collaborative Research: Parallel Analysis Tools and New Visualization Techniques for Ultra-Large Climate Data Sets	353
Total for CO :				28,947

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CONNECTICUT STATE UNIVERSITY Hartford, CT	DE-FG02-10CH20007 06/30/2012 Bermudez	SC-23	Connecticut State University System Initiative for Nanotechnology-Related Equipment, Faculty Development and	649
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-95ER14528 05/14/2011 Torgersen	SC-22.12	Air-Derived Noble Gases in Sediments: Sites and Mechanisms for Trapped Components	-76
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-92ER14263 03/31/2013 Gould	SC-22.11	Experiments in Ultracold Collisions and Ultracold Molecules	166
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-86ER13622 11/30/2012 Suib	SC-22.12	Synthesis of Porous Nano-size Catalysts for Activation of CO2 and Selective Oxidations	140
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-06ER15805 07/14/2011 Gage	SC-22.13	Signal Transduction Networks Regulating Succinate-Mediated-Catabolite-Repression and Energy Metabolism in Nitrogen-fixing	0
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-05ER15734 10/31/2011 Cote	SC-22.11	Formation of Ultracold Molecules	81
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-10ER16200 08/31/2013 Mustain	SC-22.12	Understanding the Effects of Surface Chemistry and Microstructure on the Activity and Stability of Pt	160
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-95ER20203 07/14/2013 Reiter	SC-22.13	Regulation of Xyloglucan Galactosylation in Arabidopsis	170
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-92ER40716 11/30/2012 Dunne	SC-25	Investigations in Particle and Field Theory	274
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-94ER40870 04/14/2013 Gai	SC-26.1	Studies in Low Energy Nuclear Physics	177
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-04ER41309 04/14/2013 Joo	SC-26.1	Medium Energy Nuclear Physics Experiment at Jefferson Lab	254
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-10ER46774 08/31/2013 Gokirmak	SC-22.22	Crystallization and Thermoelectric Transport in Silicon Microstructures and Nanostructures Under Extreme Electrical Stress	256
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-10ER46769 02/29/2012 Lin	SC-22.23	Engineering Multicatalytic Enzyme Assemblies for Efficient Biomass Conversion to Fuels	200
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-10ER46766 04/14/2014 Huey	SC-22.21	Switching in Solid State Memories via Nucleation and Growth Mechanisms: Causes and Effects at the Nanometer and Nanosecond Scale	140
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-09ER46562 03/31/2014 Huang	SC-22.23	Control of New Kinetic Barriers and Design of Nanorods	170

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-00ER45801 11/30/2011 Wells	SC-22.22	Charge Inhomogeneity in Correlated Electron Materials	94
GEOLOGICAL SURVEY, U. S. Storrs Mansfield, CT	DE-AI02-09ER64835 08/31/2012 Day-Lewis	SC-23.1	Geoelectrical Measurement of Multi-Scale Mass Transfer Parameters	132
YALE UNIVERSITY New Haven, CT	DE-FG02-10ER46770 08/31/2013 Schroers	SC-22.22	Using Artificial Microstructures to Understand Microstructure Property Relationship-Toughening Mechanisms in Metallic Glass	110
YALE UNIVERSITY New Haven, CT	DE-FG02-10ER46705 05/31/2013 Mochrie	SC-22.21	Dynamics of Block Copolymer Nanocomposites	188
YALE UNIVERSITY New Haven, CT	DE-FG02-04ER63892 12/14/2012 Smith	SC-23.1	Bridging the Divide: Linking Genomics to Ecosystem Responses to Climate Change	172
YALE UNIVERSITY New Haven, CT	DE-FG02-09ER46596 08/14/2012 Han	SC-22.23	Science of Heteroepitaxy for Energy-Efficient Lighting	170
YALE UNIVERSITY New Haven, CT	DE-FG02-08ER46482 12/31/2012 Glazman	SC-22.22	Electron Coherence and Interactions in Nanostructures	175
YALE UNIVERSITY New Haven, CT	DE-FG02-08ER46541 08/31/2014 Le Hur	SC-22.22	Non-Equilibrium Dynamics of Many-Body Quantum Systems: Fundamentals and New Frontiers	92
YALE UNIVERSITY New Haven, CT	DE-FG02-10ER41690 08/31/2011 McKinsey	SC-26.2	Application of Two Phase (Liquid/Gas) Xenon Gamma-Camera for the Detection of Special Molecular Material, and PET Medical Imaging	342
YALE UNIVERSITY New Haven, CT	DE-FG02-10ER41685 12/31/2012 Harris	SC-26.1	Relativistic Heavy Ion Physics	834
YALE UNIVERSITY New Haven, CT	DE-FG02-09ER41581 01/14/2012 Fleming	SC-25	Conference for Undergraduate Women in Physics to be held January 17-18, 2009	0
YALE UNIVERSITY New Haven, CT	DE-FG02-07ER41504 08/31/2013 Hirshfield	SC-25	Ka-Band Test Facility for High-Gradient Accelerator R&D	442
YALE UNIVERSITY New Haven, CT	DE-FG02-98ER20311 08/31/2013 Soll	SC-22.13	Engineering Selenoproteins for Enhanced Hydrogen Production	239
YALE UNIVERSITY New Haven, CT	DE-FG02-92ER40704 10/31/2013 Tipton, Sandweiss	SC-25	High Energy Physics Research, Tasks A, B, C, D, F, G, K and J	2,561
YALE UNIVERSITY New Haven, CT	DE-FG02-91ER40608 12/31/2012 Iachello, Alhassid	SC-26.1	Nuclear Theory	427

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
YALE UNIVERSITY New Haven, CT	DE-FG02-91ER40609 12/31/2012 Baker	SC-26.1	Nuclear Physics - Experimental Research	2,440
YALE UNIVERSITY New Haven, CT	DE-FG02-07ER15909 02/28/2014 Brudvig	SC-22.13	Oxomanganese Catalysts for Solar Fuel Production	290
YALE UNIVERSITY New Haven, CT	DE-FG02-06ER15834 09/14/2012 Schwarz	SC-22.11	Atomic Resolution Imaging and Quantification of Chemical Functionality of Surfaces	140
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15741 11/30/2011 Wettlaufer	SC-22.12	Freezing in Porous Media: Phase Behavior, Dynamics and Transport Phenomena	0
YALE UNIVERSITY New Haven, CT	DE-FG02-06ER15800 06/30/2012 Johnson	SC-22.11	Coordinating experiment and theory to understand how excess electrons are accommodated by water networks through	250
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15677 12/31/2011 Tully	SC-22.11	The Role of Electronic Excitations on Chemical Reaction Dynamics at Metal, Semiconductor, and Nanoparticle Surfaces	175
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15714 01/31/2012 DeMille	SC-22.11	Production and Trapping of Ultracold Polar Molecules	135
YALE UNIVERSITY New Haven, CT	DE-FG02-01ER15183 10/31/2012 Haller	SC-22.12	Structured Carbon Supports for Aqueous Phase Reforming and Fuel Cell Catalysts	160
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15646 03/31/2012 Brudvig	SC-22.13	Carotenoid Function in Natural Photosynthetic Systems	154
YALE UNIVERSITY New Haven, CT	DE-FG02-84ER13297 11/30/2011 Crabtree	SC-22.12	Nitrogen-Rich Ligands for Catalytic C-H, N-H and O-H Activation	150
YALE UNIVERSITY New Haven, CT	DE-FG02-88ER13966 02/28/2015 Smooke, Long	SC-22.11	Computational and Experimental Study of Laminar Flames	237
YALE UNIVERSITY New Haven, CT	DE-FG02-98ER14882 07/14/2014 Altman	SC-22.12	Structure-Reactivity Relationships in Multi-Component Transition Metal Oxide Catalysts	155
YALE UNIVERSITY New Haven, CT	DE-FG02-08ER64590 07/31/2011 Fedorov	SC-23.1	What Controls the Structure and Stability of the Ocean Meridional Overturning Circulation: Implications for Abrupt	128
YALE UNIVERSITY New Haven, CT	DE-FG02-08ER64638 08/14/2011 Saiers	SC-23.1	Colloid-Facilitated Transport of Radioactive Cations in the Vadose Zone: Field Experiments at Oak Ridge National Laboratory	53
YALE UNIVERSITY New Haven, CT	DE-FG02-10ER65034 08/14/2013 Gerstein	SC-23.2	Tools and Models for Integrating Multiple Cellular Networks	403

Total for CT :

13,609

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-04ER15542 04/14/2014 Frommer	SC-22.13	Intergration of sugar transport, metabolism and sensing in Arabidopsis: Optimizing energy efficiency in plants- Evaluating and targeting leaks.	190
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-08ER15973 08/31/2013 Wang	SC-22.13	Proteomic Study of Brassinosteroid Responses in Arabidopsis	170
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-07ER64427 06/30/2012 Grossman	SC-23.2	Filling Knowledge Gaps in Biological Networks: Integrated Global Approaches to Understand H2 Metabolism in Chlamydomonas Reinhardtii	0
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-06ER46280 12/31/2012 Somayazulu	SC-22.21	Novel Molecular Materials for Hydrogen Storage Applications	325
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-09ER46574 07/31/2014 Mao	SC-22.22	Center for Energy Frontier Research in Extreme Environments (EFree) -- EFRC	2,880
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-02ER45955 11/30/2013 Struzhkin	SC-22.21	Magnetic and Superconducting Materials at High Pressures	159
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-99ER45775 01/31/2015 Mao	SC-22.21	HPCAT -- An Integrated High-Pressure Facility at the Advanced Photon Source	1,087
COUNCIL ON COMPETITIVENESS Washington, DC	DE-FG02-06ER25795 09/14/2010 Tichenor	SC-21	High Performance Computing Systems and Competitiveness Initiative	0
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-99ER41110 05/31/2014 Briscoe	SC-26.1	Data Analysis Center for Electromagnetic and Hadronic Scattering Processes	469
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-06ER41422 03/31/2012 Feldman	SC-26.1	Low-Energy Photonic Studies at HIGS and Lund	208
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-95ER40901 12/31/2011 Feldman	SC-26.1	A Program in Medium Energy Nuclear Physics	203
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-95ER40907 01/31/2013 Lee	SC-26.1	Nuclear Physics Calculations from QCD and EFT	170
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-05ER15736 11/30/2012 Cahill	SC-22.12	Control of Hydrothermal UO <sub>2</sub> N <sub>2</sub> Systems: A Solution Phase Approach to New Solid State Materials	100
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-02ER15366 06/30/2012 Teng	SC-22.12	Interface Induced Carbonate Mineralization: A Fundamental Geochemical Process Relevant to Carbon Sequestration	99
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-01ER15129 01/14/2013 Vertes	SC-22.12	Nanophotonic and Atmospheric Pressure Ion Production in Imaging Mass Spectrometry	145

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-09ER55041 08/14/2012 Keidar	SC-24.2	Mechanism of Synthesis of Ultra-Long Single Wall Carbon Nanotubes in Arc Discharge Plasma	60
GEORGETOWN UNIVERSITY Washington, DC	DE-FG02-08ER46542 08/31/2014 Freericks	SC-22.22	Time-resolved Photoemission, Transmissivity, X-Ray Absorption Spectroscopy and Resonant Inelastic X-Ray Scattering in Strongly Correlated	156
GEORGETOWN UNIVERSITY Washington, DC	DE-FG02-07ER15895 08/14/2013 Tong	SC-22.12	In-Situ NMR/IR/Raman and Ab Initital DFT Investigations of Pt-Based Mono- & Bi-Metallic Nanoscale Electro-Catalysts:	170
GEORGETOWN UNIVERSITY Washington, DC	DE-FG02-09ER64790 08/31/2012 Fornace	SC-23.2	A Metabolomics and Mouse Models Approach to Study Inflammatory and Immune Responses to Radiation	473
NATL CAP REG PUB BLDGS SERVICE Washington, DC	DE-AC01-10ER35914 05/31/2019 Graves	SC-46	Tele-Work Site	8
HOWARD UNIVERSITY Washington, DC	DE-FG02-94ER40854 05/31/2012 Hubsch	SC-25	Superstrings and Quantum Superfields	46
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-09ER16071 12/31/2011 Zolandz	SC-22.12	Research Frontiers in Bioinspired Energy: Molecular-Level Learning from Natural Systems: A Workshop	0
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-07ER15915 08/31/2013 De Souza	SC-22.12	Board on Earth Sciences and Resources and its Activities	100
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-08ER15953 06/28/2014 Shapero	SC-22.11	Partial Support of the Committee of Atomic, Molecular, and Optical Sciences	50
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-07ER15872 12/14/2013 Zolandz	SC-22.12	Board on Chemical Sciences and Technology and Chemical Sciences Roundtable	305
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-AT01-10ER30329 03/18/2011 Reid	SC-27	The Role of Engineering of STEM Education	324
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-05ER41400 08/14/2012 Shapero	SC-25	Partial Core Support of the Board on Physics and Astronomy	120
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-08ER25840 09/29/2012 Eisenberg	SC-21.1	Core Research Activities and Studies of the Computer Science and Telecommunications Board	85
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-AT01-10ER16190 01/16/2012 Zolandz	SC-22.12	Assuring A Future US-Based Nuclear Chemistry Expertise	650
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-AT01-07ER54947 07/25/2012 Shapero	SC-24.2	Plasma Science Committee	60

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-96ER45554 08/14/2012 Shapero	SC-22.22	Partial Support of the Condensed Matter and Materials Research Committee	90
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-10ER41671 11/14/2011 Shapero	SC-25	An Assessment of Science Opportunities at the Proposed Deep Underground Science and Engineering Laboratory	296
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-09ER41632 02/28/2012 Shapero	SC-26.1	An Assessment and Outlook for Nuclear Physics	185
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-09ER64862 08/31/2011 Uhlir	SC-23.2	International Symposium on Designing the Microbial Research Commons	0
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-10ER65072 08/31/2012 Elfring	SC-23.1	A National Strategy for Advancing Climate Modeling	125
NAVAL RESEARCH LABORATORY Washington, DC	DE-AI02-01ER41170 07/14/2013 Gold	SC-25	Development and Testing of Advanced Accelerator Structures and Technologies at 11.424 GHz	437
NAVAL RESEARCH LABORATORY Washington, DC	DE-AI02-93ER40797 10/31/2011 Sprangle	SC-25	High Energy Laser-Driven Acceleration Based on the Laser Wake-Field Accelerator: Theory, Simulations, and Experiments	0
NAVAL RESEARCH LABORATORY Washington, DC	DE-AI02-10ER64968 05/31/2013 Ringelisen	SC-23.1	Mechanisms for Electron Transfer through Pili to Fe(III) Oxide in Geobacter	152
SODEXHO CORPORATE SERVICES Washington, DC	DE-AP01-10ER35906 04/28/2010 Suarez	SC-4	Caterer for the National Academy of Sciences Building Venue for the 2009 Lawrence Awards Ceremony and Reception	8
Total for DC :				10,105

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Listing of Active Awards for State (DE)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-91ER40626 01/31/2012 Shafi	SC-25	Particle Theory and Cosmology	468
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-05ER15688 08/14/2014 Chen	SC-22.12	Dedicated Beamline Facilities for Catalytic Research - Synchrotron Catalysis Consortium (SCC)	473
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER15921 02/14/2012 Lobo	SC-22.12	Novel Photocatalysts With One- and Two-Dimensional Nanostructures	0
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-00ER15104 11/14/2012 Chen	SC-22.12	Structure-Property Relationship in Metal Carbides and Bimetallic Alloys	135
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-03ER15468 09/14/2012 Lobo, Barteau	SC-22.12	From Frist Principles Design to Realization of Bimetallic Catalysts for Enhanced Selectivity	680
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-92ER14273 08/31/2012 Theopold	SC-22.12	Catalysis of Small Molecule Activation by Proton Coupled Electron Transfer	160
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER46374 06/30/2013 Xiao	SC-22.21	Center for Spintronics and Biodetection	861
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-09ER46626 08/14/2012 Furst	SC-22.21	Directed Self-Assembly of Nanodispersions	15
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-09ER46627 08/14/2012 Bobev	SC-22.21	Synthesis and Structure Characterization of Novel Intermetallic Clathrates-Prospective Materials for	15
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-10ER41711 08/14/2011 Shafi	SC-25	DUSEL Physics Workshop, October 1-3, 2010	8
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-03ER46038 02/14/2012 Glyde	SC-22.21	Neutron Scattering Studies of Classical and Quantum Fluids in Nanoporous Media	150
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-90ER45413 06/18/2013 Hadjipanayis	SC-22.22	Fundamental Studies of High-Anisotropy Nanomagnets	84
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-10ER46756 08/14/2014 Hertz	SC-22.23	Improved Electrochemical Performance of Strained Lattice Electrolytes via Modulated Doping	137
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER64450 08/31/2013 Green	SC-23.2	Genome-wide Analysis of miRNA Targets in Brachypodium and Biomass Energy Crops	266
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-10ER65010 09/14/2011 Chen	SC-23.2	University of Delaware Energy Institute	486

Total for DE :

3,938

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Listing of Active Awards for State (FL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
BARRY UNIVERSITY, INC. Miami Shores, FL	DE-FG02-10CH20009 09/29/2013 LaLonde	SC-23	Barry University - Enhancing a Student-Centered Approach to Science Education and Research Project	1,166
ETHUNE-COOKMAN UNIVERSITY INC. Daytona Beach, FL	DE-FG02-10CH20008 09/29/2011 Range	SC-23	Bethune-Cookman University STEM Research Lab (FL)	243
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER46354 01/14/2012 Rahman	SC-22.22	Theoretical and Computational Studies of Characteristics of Metallic Nanoalloys	111
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER64455 07/31/2012 Winterhalter	SC-23.1	The Response of a Seasonal Ectotherm (Allenemobius Socius) to Global Warming	185
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER25747 02/28/2011 Wang	SC-21.1	A Lightweight, High-Performance I/O Management Package for Data-Intensive Computing	0
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER15842 09/14/2012 Rahman	SC-22.12	Controlling Structural, Electronic, and Energy Flow Dynamics of Catalytic Processes Through Tailored Nanostructures	838
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-08ER15995 08/14/2014 Roldan-Cuenya	SC-22.12	Size- and Shape-Selected Micellar Metal nanoparticles ad Model Systems for Structure-Sensitive Chemical Reactions: Oxidation State Effects	339
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-10ER64952 05/31/2013 Campiglia	SC-23.1	Field Deployable, Nano-Sensing Approach for Real-Time Detection of Free Mercury, Speciation and Quantification in Surface	182
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-09CH11562 12/31/2011 Weatherford, Johnson	SC-23	Florida A&M University (FAMU) Spheromak Turbulent Plasma Experiment (STPX) in Collaboration with West Virginia University	486
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-96ER40998 07/31/2012 Williams	SC-25	Electron Beam Transport in Advanced Plasma Wave Accelerators	131
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-97ER54417 06/30/2013 Mezonlin	SC-24.2	Laser Induced Fluorescence and Neutral Particle Analyses for Ion Temperature Determinations	156
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-03ER54725 08/14/2012 Appartaim	SC-24.2	Dynamics of X-pinchs Powered by a Capacitor Bank	140
FLORIDA INSTITUTE OF TECH. Melbourne, FL	DE-FG02-03ER41264 05/31/2012 Baarmand	SC-25	Experimental Investigation of Hadron Collisions at the Highest Center-of-Mass Energies	276
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-01ER41172 04/14/2013 Sargsian	SC-26.1	Theoretical Studies of High Energy Electronuclear Processes	72
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-99ER41065 01/31/2014 Reinhold, Boeglin, Markowitz, Raue	SC-26.1	Nuclear Physics Research at Jefferson Lab	499

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Listing of Active Awards for State (FL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-10CH20006 07/31/2012 Chowdhury	SC-23	State-of-the-Art Large-Scale Testing for Wind to Enhance Infrastructure Resiliency and Develop Energy-Efficient Buildings	972
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-04ER15570 10/31/2013 Mebel	SC-22.11	Theoretical studies of chemical reactions related to the formation and growth of polycyclic aromatic hydrocarbons and molecular properties of their key intermed	95
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-09ER55045 08/14/2012 Boeglin	SC-24.2	A Fast Proton Diagnostic for NSTX	96
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-07ER46461 08/14/2013 Chen	SC-22.21	Influence of Pressure on Physical Property of Ammonia Borane and its Re-Hydrogenation	245
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-09ER64737 04/30/2012 Zhu	SC-23.1	ARM Observations for the Development and Evaluation of Models and Parameterizations of Cloudy Boundary Layers	78
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-09ER64744 04/30/2012 Ye	SC-23.1	Mult-Scale Assessment of Prediction Uncertainty in Coupled Reactive Transport Models	64
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-09ER64865 08/14/2012 Gunzburger	SC-23.1	Collaborative Proposal: Transforming How Climate System Models are Used: A Global, Multi-Resolution Approach to Regional	0
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-10ER65094 08/31/2013 LaRow	SC-23.1	Role of Low Frequency Sea Surface Temperature Modes Within a Changing Climate in Modulating Atlantic Hurricane Activity	324
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-10ER65122 09/14/2013 Cai	SC-23.1	Collaborative Research: Process-Resolving Decomposition of the Global Temperature Response to Modes of Low Frequency	138
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-08ER46494 02/29/2012 El-Azab	SC-22.22	Statistical Mechanics Modeling of Mesoscale Deformation in Metals	108
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER46451 11/30/2013 Smirnov	SC-22.22	Infrared Optical Study of Graphene in High Magnetic Fields	0
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-09ER46634 09/14/2012 Balicas	SC-22.22	SISGR - High Magnetic Fields as a Probe to Unveil the Physical Properties of the Newly Discovered Fe Oxypnictide Superconductors and Related Compounds	150
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-05ER46212 06/30/2014 Engel	SC-22.22	Microwave Spectroscopy of Electron Solids: Fractional Quantum Hall Effect and Controlled Disorder	102
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-09ER41629 08/31/2012 Roberts	SC-26.1	Research in Hadron Physics	105
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-97ER45639 07/31/2014 Bonesteel	SC-22.22	Correlated Electrons in Reduced Dimensions	70

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-98ER45707 02/14/2014 Schlottmann	SC-22.22	Strongly Correlated Electrons	55
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER64432 07/14/2012 Gunzburger	SC-23.1	New Grid and Discretization Technologies for Ocean and Ice Simulations	228
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER64470 08/14/2011 Chassignet	SC-23.1	Incorporation of the HYbrid Coordinate Ocean Model (HYCOM) into the Community Climate System Model (CCSM): Evaluation and Climate Applications	194
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-06ER54881 06/30/2014 Lee	SC-24.2	Understanding and Development of High Field Superconductors for Fusion	90
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-97ER41022 12/31/2011 Prosper, Owens	SC-25	High Energy Physics	1,083
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-02ER41220 07/14/2014 Wiedenhoever	SC-26.1	Spectroscopy of Resonances in the Astrophysical rp-Process Path	62
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER41451 03/31/2014 Larbalestier	SC-25	High Field Superconductor Development and Understanding	883
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-10ER26035 12/31/2013 Gunzburger	SC-21.1	Mathematical and Numerical Analyses of Peridynamics for Multiscale Materials Modeling	50
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-96ER40952 01/31/2014 Van Sciver	SC-25	Liquid Helium Fluid Dynamics Studies	467
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-92ER40750 03/14/2013 Piekarewicz	SC-26.1	From Quarks to the Cosmos	250
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-92ER40735 10/31/2013 Eugenio	SC-26.1	Experimental Hadronic Nuclear Physics	302
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-97ER41029 06/30/2013 Yelton	SC-25	High Energy Experimental and Theoretical Research	3,627
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-09ER25913 08/31/2012 Sanders	SC-21.1	Super Instruction Architecture for Scalable Parallel Computations	199
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-03ER15484 03/14/2013 Schanze, Kleiman, Reynolds	SC-22.13	Conjugated Polymers and Polyelectrolytes in Solar Photoconversion	395
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-03ER15478 08/31/2012 Weaver	SC-22.12	Growth and Reactivity of Oxide Phases on Crystalline Pd and Pt Surfaces	200

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-98ER14853 08/31/2012 Ladd	SC-22.12	Multiscale Modeling of Dissolution in Rough Fractures	167
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-05ER15650 07/14/2014 Maupin-Furlow	SC-22.13	Ubiquitin-like Proteins in Protein-conjugation and Sulfur-transfer in Archaea	131
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-07ER64499 08/31/2011 Peter	SC-23.2	Integrated Nondestructive Spatial and Chemical Analysis of Lignocellulosic Materials During Pretreatment and	0
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-08ER64585 06/14/2012 Hatfield	SC-23.1	Novel Sensor for the In Situ Measurement of Uranium Fluxes	378
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-07ER54946 07/31/2011 Dufty	SC-24.2	Correlations in Confined Quantum Plasmas	0
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-99ER45748 01/31/2014 Andraka	SC-22.22	Heavy Fermions, Quantum Criticality, and Unconventional Superconductivity in Filled Skutterudites and Related Materials	102
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-86ER45268 11/30/2012 Stewart	SC-22.22	Fe Pnictide and f-Electron Novel Materials/Magnetism, Superconductivity, and Quantum Criticality	150
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-02ER45984 05/14/2012 Tanner	SC-22.22	Time-resolved Synchrotron Studies of Spin and Charge Dynamics in Solids	165
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-02ER45995 11/30/2011 Cheng	SC-22.22	A Computational Approach to Complex Junctions and Interfaces	230
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-05ER46247 08/31/2012 Yelton, Tanner	SC-22.22	Collective behaviors of the Casimir force in micromechanical systems	113
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-05ER46236 08/31/2014 Hirschfeld	SC-22.22	Theory of Novel Superconductors	105
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-09ER46611 08/31/2012 Trickey	SC-22.22	TMS: Orbital-Free Quantum Simulation Methods for Application to Warm Dense Matter	425
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-07ER46464 05/31/2013 So	SC-22.23	Luminescence in Conjugated Molecular Materials Under Sub-Bandgap Excitations	160
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-10ER64942 04/14/2015 Kirst	SC-23.2	RECOVERY ACT - A Systems Biology, Whole-Genome Association Analysis of the Molecular Regulation of Biomass Growth & Composition in Populus deltoides	836
MIAMI DADE COMMUNITY COLLEGE Hialeah, FL	DE-FG02-10CH20005 09/29/2011 Bradley-Hess	SC-23	The Physics and Biological Sciences Laboratory Learning Center at Miami Dade College- Hialeah Campus	388

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MIAMI, UNIVERSITY OF Miami, FL	DE-FG02-09ER64779 06/14/2012 Mapes	SC-23.1	Parameterizing Convective Organization	180
MIAMI, UNIVERSITY OF Miami, FL	DE-FG02-09ER64738 04/30/2012 Albrecht	SC-23.1	Collaborative Research: ARM Observations for the Development and Evaluation of Models and Parameterizations of Cloudy	119
MIAMI, UNIVERSITY OF Miami, FL	DE-FG02-10ER65078 08/31/2013 Clement	SC-23.1	Investigating the Mechanisms of Walker Circulation Variability on Decadal Timescales and in Response to Anthropogenic Forcing	399
MIAMI, UNIVERSITY OF Miami, FL	DE-FG02-10ER65080 08/31/2013 Soden	SC-23.1	Assessing Surface Radiative Feedbacks and Radiative Forcings in CMIP-5 Models	306
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-10ER46782 08/31/2013 Ponomareva	SC-22.22	Atomistic Study of Ultrafast Dynamics in Multifunctional Materials in Bulk and Nanoforms	135
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-04ER46145 06/14/2014 Nolas	SC-22.23	A Fundamental Study of Inorganic Clathrate and Other Open-Framework Materials	377
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-06ER46297 07/14/2012 Woods	SC-22.22	Theoretical Studies of Graphitic Nanostructured Materials Interactions	115
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-07ER46438 08/31/2013 Srikanth	SC-22.22	Magnetic Frustration and Cooperative Phenomena in Correlated Electron Oxide Materials	135
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-09ER16082 09/14/2012 Batzill	SC-22.12	Photocatalysis of Modified Transition Metal Oxide Surfaces	200
TERAFLUX CORPORATION Boca Raton, FL	DE-FG02-08ER64534 04/14/2012 Prusa	SC-23.1	Collaborative Research: Continuous Dynamic Grid Adaptation in a Global Atmospheric Model: Application and Refinement	80

Total for FL :

20,852

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ICKASAW ADVISORY SERVICES, LLC Atlanta, GA	DE-AC02-10ER35896 01/31/2015 Osteen	SC-45	Administrative, Technical, Professional, Information Management and Technology Support and Assistance to the Office of Science	4,478
CLARK ATLANTA UNIVERSITY Atlanta, GA	DE-FG02-97ER14743 03/31/2013 Msezane	SC-22.11	Electron/Photon Interactions with Atoms/Ions	80
EMORY UNIVERSITY Atlanta, GA	DE-FG02-07ER15906 08/31/2013 Hill	SC-22.13	Solar Energy-Driven Multi-Electron-Transfer Catalysts for Water Splitting: Robust and Carbon-Free Nano-Triads	300
EMORY UNIVERSITY Atlanta, GA	DE-FG02-97ER14782 10/31/2012 Bowman	SC-22.11	Theoretical Studies of Combustion Dynamics	260
EMORY UNIVERSITY Atlanta, GA	DE-FG02-03ER15461 09/14/2012 Musaev	SC-22.12	Principles of Selective O <sub>2</sub> -Based Oxidation by Optimal (Multinuclear) Catalytic Sites	240
EMORY UNIVERSITY Atlanta, GA	DE-FG02-01ER15153 08/14/2013 Heaven	SC-22.12	Spectroscopic Studies of Prototypical Actinide Compounds	151
EMORY UNIVERSITY Atlanta, GA	DE-FG02-02ER15377 06/14/2014 Lynn, Conticello	SC-22.13	Engineering Functional Scaffolds by Supramolecular Self-Assembly	180
S INST., INC., MEDICAL COL. OF Augusta, GA	DE-FG02-09ER64788 06/30/2012 Dynan	SC-23.2	Links Between Persistent DNA Damage, Genome Instability, and Aging	270
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-09ER64816 07/31/2011 Elliott	SC-23.1	The Natural Enrichment of Stable Cesium in Weathered Micaceous Materials and Its Implications for <sup>137</sup> Cs Sorption	67
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-01ER15213 10/31/2013 Stockman	SC-22.11	Femtosecond and Attosecond Laser-Pulse Energy Transformation and Concentration in Nanostructured Systems	100
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-03ER15428 10/31/2012 Manson	SC-22.11	Ionization of Free and Confined Atoms and Ions	69
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-98ER41068 03/31/2014 He	SC-26.1	Research in Heavy Ion Nuclear Reactions	152
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-09ER46635 09/14/2012 Mani	SC-22.22	SISGR - Microwave- and Terahertz- Photo-Excited Transport in the Two Dimensional Electron System	120
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-09ER46604 05/31/2013 Tsukruk	SC-22.23	Guided Assembly of Anisotropic Micro-Structures Into Mesoscale Hierarchies	250
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-09ER46592 02/28/2013 Kroger	SC-22.23	(Bio)Chemical Tailoring of Biogenic 3-D Nanopatterned Templates With Energy-Relevant Functionalities	300

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-05ER46229 08/31/2012 Chou	SC-22.22	First-Principles Studies of Phase Stability and Reaction Dynamics in Complex Metal Hydrides	150
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-06ER46281 03/31/2012 Davidovic	SC-22.22	Spin Polarized Electron Transport Through Aluminum Nanoparticles	130
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-06ER46293 07/31/2013 Riedo	SC-22.22	NanoMechanics: Elasticity and Friction in Nano-Objects	140
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-07ER46394 01/31/2012 Wang	SC-22.22	Piezoelectric Nanogenerators for Self-Powered Nanosystems and Nanosensors	137
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-06ER46343 05/31/2013 Zhang	SC-22.22	Measurement of Near Field Thermal Radiation Between Flat Surfaces with Nanogap	110
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-86ER45234 11/30/2012 Landman	SC-22.22	Structure and Dynamics of Material Surfaces, Interphase-Interfaces and Finite Aggregates	225
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-85ER45194 12/31/2011 Tolbert	SC-22.23	The Organic Chemistry of Conducting Polymers: From One to Two Dimensions	0
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-97ER45632 12/31/2012 Chou	SC-22.22	First-Principles Investigation of Complex Materials Properties	80
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-04ER46141 05/14/2013 Tolbert, Bunz	SC-22.23	Morphosynthesis of Organic Semiconductors and Their Engineered Nanodot Composites	218
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FC02-09ER55008 01/14/2012 Schwan	SC-24.2	Center for Plasma Edge Simulation (CPES)	54
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-99ER54538 03/31/2014 Stacey	SC-24.2	Collaborative Analysis of DIII-D	165
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-01ER54656 01/31/2013 Yoda	SC-24.2	Advanced Design Studies	150
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER25875 05/31/2012 Biros	SC-21.1	Large-Scale Optimization for Bayesian Inference in Complex Systems	300
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER26021 08/31/2013 Dovrolis	SC-21.1	Detection, Localization and Diagnosis of Performance Problems Using PerfSONAR	174
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FC02-10ER26014 08/31/2013 Schwan	SC-21.1	Runtime System for I/O Staging in Support of In-Situ Processing of Extreme Scale Data	67

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FC02-10ER26006 08/31/2013 Vuduc	SC-21.1	Vancouver: Designing a Next Generation Software Infrastructure for Heterogeneous Exascale Computing	104
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-05ER25711 08/31/2010 Mischaikow	SC-21.1	Multiscale Analysis of Nonlinear Systems Using Computational Topology	0
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-03ER15450 10/31/2012 Raman	SC-22.11	Dual Quantum Gases of Bosons: From Atomic Mixtures to Heteronuclear Molecules	140
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-03ER15459 09/14/2012 Jones	SC-22.12	Developing the Science of Immobilized Molecular Catalysts	700
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-04ER15510 12/14/2011 Koros	SC-22.12	Synthesis and Analysis of Polymers With High Permeabilities and Permselectivities for Gas Separation Applications	120
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-02ER15337 10/31/2011 Orlando	SC-22.11	Low-Energy Electron Interactions with Liquid Interfaces and Biological Targets	145
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-97ER14799 05/31/2012 El-Sayed	SC-22.11	Time Resolved Optical Studies on the Plasmonic Field Effects on Bacteriorhodopsin Proton Pump Function	144
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-08ER15964 06/30/2011 Sholl	SC-22.12	Ab-Initio Screening of Alloys for Hydrogen Purification Membranes	150
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-09ER64897 09/14/2012 Taillefert	SC-23.1	Uranium Biomineralization by Natural Microbial Phosphatase Activities in the Subsurface	95
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER65104 09/14/2013 Taillefert	SC-23.1	Mineral Solubility and Free Energy Controls on Microbial Reaction Kinetics: Application to Contaminant Transport....	299
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER65105 09/14/2013 Di Lorenzo	SC-23.1	Pacific Decadal Variability and Central Pacific Warming El Nino in a Changing Climate	241
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER65083 08/31/2013 Black	SC-23.1	A Study of Long-Term Changes in Cold Air Outbreaks and Warm Spells	411
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER65121 09/14/2013 Deng	SC-23.1	Collaborative Research: Process-Resolving Decomposition of the Global Temperature Response to Modes of Low Frequency Variability in a Changing Climate	228
GEORGIA, UNIVERSITY OF Athens, GA	DE-FG02-10ER65064 08/31/2013 Summers	SC-23.1	Molecular Mechanisms of Bacterial Mercury Transformation	80
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-10ER64983 06/14/2013 Summers	SC-23.1	Defining the Molecular-Cellular-Field Continuum of Mercury Detoxification	225

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-10ER65038 07/31/2013 Harding	SC-23.2	Organ and Tissue-specific Sucrose Transporters: Important Hubs in Gene and Metabolite Networks Regulating Carbon Use	884
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-08ER64690 09/14/2012 Scott	SC-23.2	Systems-Level Description of Metabolic and Regulatory Pathways fo a Hydrogen-Producing Model Microorganism	400
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-05ER15710 08/31/2011 Adams	SC-22.13	Fundamental Studies of Recombinant Hydrogenases	230
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-97ER14748 01/14/2013 Allen, Schaefer	SC-22.11	Theoretical Studies of Elementary Hydrocarbon Species and Their Reactions	202
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-96ER14658 11/14/2011 Duncan	SC-22.11	Transition Metal-Molecular Interactions Studied with Cluster Ion Infrared Spectroscopy	136
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-03ER15415 08/14/2012 Ye	SC-22.13	Secondary Wall Formation in Fiber Cells	175
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-96ER20220 06/14/2012 Darvill	SC-22.13	Structural Studies of Complex Carbohydrates of Plant Cell Walls	409
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-93ER20097 12/31/2012 Darvill	SC-22.13	Center for Plant and Microbial Complex Carbohydrates	1,160
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-95ER20175 04/14/2014 Adams	SC-22.13	Hypothermophilic Multiprotein Complexes and Pathways for Energy Conservation and Catalysis	170
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-06ER64321 09/30/2011 Leclerc	SC-23.1	A New Carbon Flux Super Site: Innovative Methods of Atmosphere-Terrestrial Carbon Exchange Measurements and Modeling	0
UNIVERSITY OF RESEARCH FOUND. Athens, GA	DE-FG02-07ER64326 10/31/2011 Adams	SC-23.2	Molecular Assemblies, Genes and Genomics Integrated Efficiently (MAGGIE)	570
MOREHOUSE SCHOOL OF MEDICINE Atlanta, GA	DE-FG02-06CH11439 06/30/2011 Fox, Sullivan	SC-23	Planning for Construction of a Research Facility at Morehouse School of Medicine	0
H GEORGIA COLLEGE & STATE UNIV Dahlonega, GA	DE-FG02-97ER41046 02/29/2012 Prior	SC-26.1	Radiative Capture and Gamma-Induced Reactions at Low Energies	121
Total for GA :				16,656

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-03ER15411 07/14/2012 Kaiser	SC-22.11	Probing the Reaction Dynamics of Hydrogen-Deficient Hydrocarbon Molecules and Radical Intermediates via Crossed Molecular Beams	137
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-09ER16002 07/31/2013 Jahren	SC-22.12	Development of the Carbon Isotope Signature of Terrestrial n-Alkanes as a Potential Proxy for Paleo-pCO2	170
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-07ER15885 07/31/2012 Vicic	SC-22.12	Development of Catalytic Alkylation and Fluoroalkylation Methods	145
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-04ER41291 11/30/2012 Browder, Tata	SC-25	Research in High Energy Physics	1,903
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-07ER64445 07/31/2011 Annamalai	SC-23.1	Future Projections of Mean and Variability of the Asian Summer Monsoon and Indian Ocean Climate Systems	185
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-07ER46408 05/31/2013 Ming	SC-22.23	Synthesis of New Diamond-Like B-C Phases Under High Pressures and Temperatures	195
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-10ER41697 08/31/2011 Varner	SC-25	Fast Feature Extracted High Precision Timing, Integrated Photodetector Readout	95
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-10ER65106 09/14/2013 Schneider	SC-23.1	Pacific Decadal Variability and Central Pacific Warming El Nino in a Changing Climate	132
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-10ER65112 09/14/2013 Jin	SC-23.1	Assessing Enso Regime Changes in a Changing Climate	371
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-09ER64776 07/31/2012 Phillips	SC-23.1	Study of Mechanisms of Aerosol Indirect Effects on Glaciated Clouds	58
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-09ER64881 12/31/2011 Fu	SC-23.1	Improve the Representation of Convection-PBL Interactions in Two Global General Circulation Models (CAM & ECHAM)	0
Total for HI :				3,391

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-87ER40371 06/14/2014 Vary, Qiu	SC-26.1	Intermediate/High Energy Nuclear Physics	320
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-92ER40692 11/14/2012 Hill	SC-26.1	Relativistic Heavy Ion Physics	598
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-01ER41155 10/31/2012 Krennrich, Cochran	SC-25	Investigations in Experimental and Theoretical High Energy Physics	1,238
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-94ER20147 08/31/2013 Rodermel	SC-22.13	Regulation of chloroplast biogenesis: the immutans mutant of Arabidopsis	170
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-09ER16088 09/14/2012 Zhao	SC-22.12	SISGR: Biomimetic Catalysts Responsive to Specific Chemical Signals	440
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-10ER46690 04/14/2015 O'Donnell	SC-22.23	RECOVERY ACT - Templating of Liquid Crystal Microstructures by Reversible Addition-Fragmentation Chain Transfer Polymerization	600
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-01ER63250 03/14/2012 Gutowski	SC-23.1	Collaborative Research: Continuous Dynamic Grid Adaptation in a Global Atmospheric Model: Application and Refinement	105
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-08ER64559 05/14/2012 Wu	SC-23.1	Understanding and Improving CRM and GCM Simulations of Cloud Systems with ARM Observations	113
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-07ER64463 08/14/2012 Gutowski	SC-23.1	Collaborative Research: Towards Advanced Understanding and Predictive Capability of Climate Change in the Arctic Using a	115
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-09ER41622 08/14/2011 Hauptman	SC-25	4Th Letter of Intent R&D for the Development of the 4th Concept Detector.	0
IOWA STATE UNIVERSITY Ames, IA	DE-FC02-09ER41582 11/30/2011 Vary	SC-26.1	Building a Universal Nuclear Energy Density Functional	136
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-10ER41719 08/31/2013 Lajoie	SC-26.1	Investigation of Quark Sea and Orbital Angular Momentum Contributions to Nucleon Spin	38
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-10ER65074 08/31/2012 Ewing	SC-23.1	Modeling Effects of Pore-Scale Physics on Uranium Geochemistry in Hanford Sediments	40
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-08ER64664 09/14/2011 Marek	SC-23.2	Genomics of Wood Formation and Cellulosic Biomass Traits in Sunflower	50
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-09ER64801 06/30/2012 Spitz	SC-23.2	Mitochondrial-Derived Oxidants and Cellular Responses to Low Dose/Low LET Ionizing Radiation	470

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-07ER54943 07/31/2012 Pickett	SC-24.2	Collaborative Research: Dynamics of Electrostatic Solitary Waves on Current Layers	0
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-04ER54795 08/14/2014 Merlino	SC-24.2	Experimental Investigations of Fundamental Processes in Dusty Plasmas	200
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-99ER54543 06/30/2012 Skiff	SC-24.2	Correlations and Fluctuations in Weakly Collisional Plasma	209
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-86ER40286 05/31/2013 Polyzou	SC-26.1	Relativistic Few-Body Hadronic-Physics Calculations	130
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-91ER40664 02/28/2013 Mallik	SC-25	High Energy Physics	667
KRELL INSTITUTE, INC. Ames, IA	DE-FG02-97ER25308 03/31/2013 Corones	SC-21.1	Computational Science Graduate Fellowship Program	7,800
KRELL INSTITUTE, INC. Ames, IA	DE-FG02-09ER25935 09/14/2012 Galarowicz	SC-21.1	Building a Community Infrastructure for Scalable On-Line Performance Analysis Tools Around Open Speedshop	76
NORTHERN IOWA, UNIVERSITY OF Cedar Falls, IA	DE-FG02-10ER65020 09/14/2011 Thiel	SC-23.2	University of Northern Iowa Center for Advanced Bio-Based Binders and Pollution Reduction Technology	923
Total for IA :				14,438

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
BOISE STATE UNIVERSITY Boise, ID	DE-FG02-07ER46396 07/14/2014 Mullner	SC-22.22	Fracture Mechanisms and Fatigue of Magnetic Shape-Memory Alloys	143
IDAHO STATE UNIVERSITY Pocatello, ID	DE-FG02-09ER46623 08/14/2012 Forest	SC-22.21	The Development of a Positron Source for JLab at the IAC	15
IDAHO STATE UNIVERSITY Pocatello, ID	DE-FG02-09ER46624 08/14/2012 Chandler	SC-22.21	Experimental Studies of the Transport Parameters of Warm Dense Matter	15
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-09ER46625 08/14/2012 Bitterwolf	SC-22.21	Time-Resolved XAFS Spectroscopic Studies of B-H and N-H Oxidative Addition to Transition Metal Catalysts Relevant to	15
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-10ER46716 07/31/2013 Crepeau	SC-22.21	Fundamental Fluid Physics Studies for Energy Efficiency and Sustainability	584
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-07ER64404 05/31/2012 Smith	SC-23.1	Field Investigations of Microbially Facilitated Calcite Precipitation for Immobilization of Strontium-90 and Other	0
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-03ER41270 07/31/2012 Sammarruca	SC-26.1	Nuclear Theory at the University of Idaho	75
Total for ID :				847

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-10ER65030 08/14/2013 Stevens	SC-23.2	Dev. of an Extensible Computational Framework for Centralized Storage and Distributed Curation and Analysis of	473
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER16092 09/14/2011 Sutton	SC-22.12	SISGR - Canted Undulator Upgrade for GeoSoilEnviroCARS (Sector 13) at the Advanced Photon Source	348
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER16113 09/14/2012 Sibener	SC-22.11	SISGR - Chemical Imaging and Dynamical Studies of Reactivity and Emergent Behavior in Complex Interfacial Systems	295
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-10ER16186 08/31/2012 Swanson	SC-22.11	Characterizing Coupled Charge Transport with Multiscale Molecular Dynamics	120
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-10ER16171 08/31/2014 Voth	SC-22.12	Computer Simulation of Proton Transport in Fuel Cell Membranes	160
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-07ER15865 05/14/2013 He	SC-22.12	Selective Recognition of Heavy Elements by Protein-Based Reagents	330
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-07ER15910 02/28/2014 Hopkins	SC-22.13	New Transition Metal Building Blocks and Assemblies for Photocatalytic Fuel Production	176
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-01ER15254 07/31/2014 Richter	SC-22.12	Kinetic Isotope Fractionation by Diffusion in Liquids	185
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-94ER14466 08/14/2016 Sutton	SC-22.12	GeoSoilEnviroCARS: A National Resource for Earth, Planetary, Soil and Environmental Science Research at the	784
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-92ER14244 11/14/2011 Sutton	SC-22.12	Synchrotron X-Ray Microprobe and Microspectroscopy Research In Low Temperature Geochemistry	205
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-92ER14305 03/31/2015 Butler	SC-22.11	Dynamics of Product Branching in Elementary Combustion Reactions: OH + Alkenes and Nitrogen Chemistry	140
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER25921 09/14/2012 Stein	SC-21.1	Scalable Statistical Analysis of Gaussian Models for Petascale Spatiotemporal Data	99
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER25912 08/31/2012 Khokhlov	SC-21.1	First-Principles Petascale Simulations for Predicting Deflagration to Detonation Transition in Hydrogen-Oxygen Mixtures	205
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER25883 08/31/2012 Birge	SC-21.1	Stochastic Optimization of Complex Systems	160
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FC02-10ER26012 08/31/2013 Katz	SC-21.1	ExM: System Support for Extreme-Scale, Many-Task Applications	223

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CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-90ER40560 10/31/2012 Martinec	SC-25	Participation in High Energy Physics	851
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-07ER64501 08/31/2011 Kent	SC-23.2	Use of Modern Chemical Protein Synthesis and Advanced Fluorescent Assay Techniques to Experimentally Validate the Functional	0
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-06ER46326 08/14/2012 Guyot-Sionnest	SC-22.22	Colloidal Quantum Dot Films. Transport and Magnetotransport	130
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-03ER46088 04/30/2013 Nagel	SC-22.22	Studies of the Marginally Jammed Solid	125
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-99ER45789 11/30/2011 Rosenbaum	SC-22.22	Coherent Excitations in Disordered Quantum Materials	150
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-10ER41651 12/31/2012 Wah	SC-25	Rare Kaon Decays, KEK Experiment E391 and E14 at the Japan Physics and Accelerator Research Complex (J-PARC)	245
DEPAUL UNIVERSITY Chicago, IL	DE-FC02-06ER41441 03/14/2012 Di Pierro	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	72
HDF GROUP, THE Champaign, IL	DE-FC02-10ER26003 08/31/2013 Koziol	SC-21.1	Damsel: a Data Model Storage Library for Exascale Science	125
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FC02-06ER41442 09/14/2011 Sun	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	30
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FG02-01ER41159 01/14/2014 Torun, Kaplan	SC-25	Participation in Muon Collider/Neutrino Factory Research and Development	90
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FG02-94ER40840 03/31/2012 White	SC-25	Participation in High Energy Physics	491
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FG02-09ER25884 08/31/2012 Hickernell	SC-21.1	Stochastic Optimization of Complex Systems	62
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FC02-10ER26004 08/31/2013 Hwu	SC-21.1	Vancouver: Designing a Next Generation Software Infrastructure for Heterogeneous Exascale Computing	235
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FC02-10ER26011 08/31/2013 Hoefler	SC-21.1	Compiled MPI: Cost-Effective Exascale Applications Development	55
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FC02-10ER25992 08/31/2013 Torrellas	SC-21.1	Thrifty: An Exascale Architecture for Energy Proportional Computing	160

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				FY 2010
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER25966 12/14/2012 Shanbhag	SC-21.1	RECOVERY ACT - Extending the Realm of Optimization for Complex Systems: Uncertainty, Competition and Dynamics	1,031
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER25969 03/14/2013 Gropp	SC-21.1	Architecture-Aware Algorithms for Scalable Performance and Resilience on Heterogeneous Architectures	150
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FC02-06ER25752 09/14/2011 Johnson, Snir	SC-21.1	Center for Programming Models for Scalable Parallel Computing	400
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER25835 03/31/2012 Gropp	SC-21.1	Enhancing the MPI Programming Model for Petascale Systems	153
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-91ER40677 10/31/2012 Liss, Thaler	SC-25	Research on Elementary Particle Physics	2,665
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER15843 12/31/2011 Hartwig	SC-22.12	Chemistry of Complexes With Transition Metal-Heteroatom Bonds: Novel Insertion Chemistry and X-H Bond Activation	175
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER15960 06/14/2014 Dikanov	SC-22.13	Mechanistic Studies of Catalysis in Quinone Electron Transfer Using High-Resolution EPR	200
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER15961 06/14/2012 Bass	SC-22.12	Aqueous Geochemistry at High Pressures and Temperatures	160
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-02ER15317 06/30/2011 Bethke	SC-22.12	Field-Constrained Quantitative Model of the Origin of Microbial and Geochemical Zoning in a Confined Fresh-Water Aquifer	134
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-02ER15296 06/30/2014 Metcalf	SC-22.13	Energy Conservation During Methanogenesis in Methanosarcina Species	181
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-90ER14146 02/29/2012 Rauchfuss	SC-22.12	Cyanometallates, Their Cages, and Associated Host-Guest Behavior	170
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FC02-07ER64323 11/14/2011 Valocchi	SC-23.1	Modeling Multiscale-Multiphase-Multicomponent Subsurface Reactive Flows Using Advanced Computing	65
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER64568 05/31/2014 Lu	SC-23.1	New Catalytic DNA Biosensors for Radionuclides and Metal Ions	205
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER64533 12/31/2011 Bond	SC-23.1	Optical Properties of Moderately-Absorbing Organic and Mixed Organic/Inorganic Particles at Very High Humidities	107
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-09ER55051 08/14/2012 Eden	SC-24.2	Scaling of Microactivity Plasmas Toward 1UM: Science and Engineering of Spatially-Confined, Low Temperature	213

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				FY 2010
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER54992 05/31/2012 Ruzic	SC-24.2	Study of the Scrape-Off Layer/LLD Interactions and Relevance to NSTX Core Performance	125
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-09ER46669 05/14/2013 Lev	SC-22.21	Atom Chip Microscopy: A Novel Probe for Strongly Correlated Materials	255
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-04ER54765 04/14/2012 Ruzic	SC-24.2	Study of Breakdown/Arcing in High Power RF Antennas	55
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-99ER54515 04/14/2014 Ruzic	SC-24.2	Surface Interactions for Controlled Nuclear Fusion	174
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-08ER46549 10/14/2011 Flynn	SC-22.21	LEEM Investigations of Clean Surfaces Driven by Energetic Ion Beams	170
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46471 07/31/2013 Lewis, Moore	SC-22.23	Programming Function via Soft Materials	2,103
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46459 07/31/2013 Cahill	SC-22.21	Ultrafast Thermal Transport at Interfaces	375
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46453 07/31/2013 Cooper	SC-22.22	Quantum Materials at the Nanoscale	2,463
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46443 04/30/2014 Robertson	SC-22.21	Four-Dimensional Characterization of Dislocation-Defect Interactions in Aggressive Environments - A New Approach	140
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46383 05/31/2013 Chiang	SC-22.21	Quantum Physics of Surface-Based Nanoscale Systems	251
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-06ER46285 06/30/2012 Abbamonte	SC-22.21	Resonant Soft X-Ray Scattering Studies of Spontaneous and Engineered Electronic Order in Transition Metal Oxides	223
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-05ER46217 08/14/2013 Bellon, Averbach	SC-22.22	Materials for Extreme Irradiation Environments	700
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-05ER46260 06/14/2014 Gewirth	SC-22.23	Cathode Catalysis in Hydrogen/Oxygen Fuel Cells: New Catalysts, Mechanism, and Characterization	350
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-01ER45923 04/14/2014 Zuo	SC-22.21	Electron Nanocrystallography of Complex Materials and Processes	158
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-02ER46019 11/30/2012 Granick	SC-22.23	Phospholipid Vesicles in Materials Science	229

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				FY 2010
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER64926 01/31/2013 West	SC-23.1	Particle-Resolved Aerosol Representation for the Simulation of the Aerosol Impact on Regional Scales	195
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER64939 04/14/2012 Johnson	SC-23.1	Exploratory Research: Mercury Stable Isotopes as Indicators of the Biogeochemical Cycling of Mercury	120
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER65039 08/14/2013 Hudson	SC-23.2	The Role of Small RNA in Biomass Deposition and Perenniality in Andropogoneae Feedstocks	322
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER65056 08/31/2013 Katzenellenbogen	SC-23.2	Expedited Synthesis of Flourine-18 Labeled Phenols: A Missing Link in PET Radiochemistry	800
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER65012 07/31/2012 McFarquhar	SC-23.1	The Development of an Improved Cloud Microphysical Product for Model and Remote Sensing Evaluation Using RACORO	54
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER64999 06/14/2013 Metcalf	SC-23.2	Methanogenic Archaea and the Global Carbon Cycle: A System Biology Approach to the Study of Mechanosarcina	810
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-09ER64781 07/31/2012 Sanford	SC-23.1	MURMoT: Design and Application of Microbial Uranium Reduction Monitoring Tools	115
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-09ER64770 06/14/2012 McFarquhar	SC-23.1	Improved Representations of Cloud Microphysics for Model and Remote Sensing Evaluation Using Data Collected During ISDAC, TWP-ICE, and RACORO	157
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-09ER64791 06/30/2012 Finneran	SC-23.1	Characterizing the combined Roles of Iron and Transverse Mixing on Uranium Bioremediation in Groundwater Using	155
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-10ER65103 08/31/2013 Luthey-Schulten	SC-23.2	Computational Modeling of Fluctuations in Energy and Metabolic Pathways of Methanogenic Archaea	500
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-09ER64895 09/14/2012 Nagy	SC-23.1	Mercury Release from Organic Matter (OM) and OM-Coated Mineral Surfaces	257
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-05ER46225 08/14/2014 Morr	SC-22.22	Non-Equilibrium Physics at the Nanoscale	70
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-08ER46538 08/31/2012 Murad	SC-22.23	Observation and Simulations of Lipid Membrane Behavior Under External Stimuli	118
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-10CH20012 09/29/2012 Leigh	SC-23	Construction of Blaze at the University of Illinois at Chicago: A Shared, High-Performance, Visual Computer for Next-Generation	972
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-03ER15381 01/14/2012 Sturchio	SC-22.12	Mineral-Fluid Interactions: Synchrotron Radiation Studies at the Advanced Photon Source	61

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ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-84ER40173 06/30/2012 Keung	SC-25	Studies in Theoretical High Energy Particle Physics	82
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-94ER40865 05/14/2013 Hofman	SC-26.1	Heavy Ion Nuclear Physics Research at the University of Illinois at Chicago	466
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-01ER41195 07/31/2013 Stephanov	SC-26.1	Theoretical Studies of Strongly Interacting Matter	310
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-09ER25954 09/14/2012 Nicholls	SC-21.1	High-Order Numerical Methods for the Simulation of Linear and Non-Linear Waves: High-Frequency Radiation and Dynamic	125
ILLINOIS, UNIVERSITY OF Urbana, IL	DE-FG02-09ER25895 09/14/2012 Kale	SC-21.1	HPC Colony II	250
ILLINOIS, UNIVERSITY OF Urbana, IL	DE-FG02-03ER15476 09/14/2012 Nuzzo, Johnson	SC-22.12	Reactivity & Structural Dynamics of Supported Metal Nanoclusters using Electron Microscopy, In-Situ X-Ray	640
ILLINOIS, UNIVERSITY OF Urbana, IL	DE-FG02-87ER13716 08/31/2013 Gennis	SC-22.13	Biochemical and Biophysical Studies of the E Coli Aerobic Respiratory Chain	170
LOYOLA UNIVERSITY OF CHICAGO Chicago, IL	DE-FG02-10CH20010 12/31/2012 Sellers	SC-23	Chicago Clean Air, Clean Water Project. Loyola University Chicago: Environmental Monitoring for a Healthy, Sustainable	486
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-06ER46334 08/14/2012 Xiao	SC-22.23	Synthesis and Properties of Nanostructured Exotic Superconductors	162
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-08ER41532 01/31/2014 Piot	SC-25	Nonlinear Dynamics & Phase Space Manipulations of High-Brightness Electron Beams: Theories, Simulations, and	148
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-10ER41695 08/31/2012 Zutshi	SC-25	Design and Prototyping of a High Granularity Scintillator Calorimeter	160
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-03ER46097 09/14/2012 van Veenendaal	SC-22.22	Dynamical and Non-Equilibrium Effects in Higher-Order and Pump and Probe X-Ray Scattering	140
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-10ER65006 09/14/2012 Kimball	SC-23.2	Unique Methodologies for Nano-/Micro-Manufacturing Job Training via Desktop Supercomputer Modeling and Simulation	486
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-10ER65051 08/31/2011 Mirkin	SC-23.2	Clean Energy Storage Conversion and Generation Research	486
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-10ER64940 03/31/2012 Geiger	SC-23.1	Uranium(IV) Interaction with Aqueous/Solid Interface Studied by Nonlinear Optics	150

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NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER64905 09/14/2011 Shekhawat	SC-23.2	Development of Scanning Near-Field Ultrasound Holography as an Add-On Module for AFM Systems	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER64815 08/31/2014 Woloschak	SC-23.2	Effects of Low Dose Irradiation on NFkB Signaling Networks and Mitochondria	1,519
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER64819 08/31/2011 Marks	SC-23.2	Northwestern University Facility for Clean Catalytic Process Research	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-01ER45945 03/14/2012 Marks	SC-22.21	New Methods for Atomic Structure Determination of Materials	140
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-84ER45125 10/31/2011 Dutta	SC-22.23	In Situ X-ray Studies of Adsorption, Nucleation, and Self-Assembly at Soft and Hard Surfaces	187
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-88ER45372 03/31/2013 Freeman	SC-22.22	Electronic Structure and Novel Properties in Complex Oxides and Hetero-Interfaces	105
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-00ER45810 05/14/2014 Stupp	SC-22.23	Nanoengineering of Complex Materials	657
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-98ER45721 03/14/2014 Dunand	SC-22.22	Designing Nanoscale Precipitates in Novel Cobalt-based Superalloys to Improve Creep Resistance and Operating Temperature	154
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-99ER45782 08/14/2014 Voorhees	SC-22.23	Four-Dimensional Analysis of the Evolution of Complex Dendritic Microstructures During Coarsening	175
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER46248 06/30/2014 Halperin	SC-22.22	Antiferromagnetism and Superconductivity	150
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER46255 08/31/2014 Barnett	SC-22.22	High Performance Nano-Crystalline Oxide Fuel Cell Materials: Defects, Structures, Interfaces, Transport, and	500
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-07ER46356 10/31/2012 Kanatzidis	SC-22.23	Chemistry and Properties of Complex Intermetallics from Metallic Fluxes	150
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-07ER46401 07/14/2014 Lauhon	SC-22.22	Functional Imaging of Hybrid Nanostructures: Visualizing Mechanism of Solar Energy Utilization	133
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-07ER46433 08/14/2013 Wolverton	SC-22.22	Theory of Hydrogen Storage in Complex Hydrides	260
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER46536 12/31/2014 Marks	SC-22.23	Materials Science of Electrodes and Interfaces for High-Performance Organic Photovoltaics	400

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NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER46539 08/31/2014 Olvera de la Cruz	SC-22.23	Electrostatic Driven Self-Assembly Design of Functional Nanostructures	175
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-99ER14999 04/14/2012 Wasielewski	SC-22.13	Approaches to Integrated Photochemical Systems for Solar Energy Conversion	300
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-01ER15184 10/31/2013 Kung	SC-22.12	Molecular Engineering for Selective Catalysis	160
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-04ER15522 06/30/2013 Ibers	SC-22.12	Actinide Transition-Metal Chalcogenides and Pnictides	140
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-03ER15457 05/31/2012 Stair	SC-22.12	Institute for Catalysis in Energy Processes	1,000
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-04ER15612 10/31/2013 Seideman	SC-22.11	New Directions in Intense Laser Alignment	100
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-96ER14684 07/14/2014 Lewis	SC-22.13	Light-Driven Charge Transfer in Face-to-Face Donor-Spacer-Acceptor Supramolecular Systems	160
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-87ER13808 05/14/2012 Hupp	SC-22.13	Fundamental Studies of Light-Induced Charge Transfer, Energy Transfer, and Energy Conversion with Supramolecular	240
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-86ER13511 11/14/2013 Marks	SC-22.12	Supported Organometallic Complexes: Surface Chemistry, Spectroscopy, Catalysis, and Homogeneous Models	184
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-10ER16153 05/31/2013 Schatz	SC-22.11	Surface Plasmon Enhanced Chemistry	285
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-10ER16144 04/14/2015 Weiss	SC-22.13	RECOVERY ACT - Chemical Control of Charge Trapping and Charge Transfer Processes at the Organic-Inorganic Interface within Quantum Dot-Organic Complexes	750
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER16109 09/14/2012 Hersam	SC-22.11	SISGR - Single Molecule Chemical Imaging at Femtosecond Time Scales	600
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER15980 08/31/2012 Rudnicki	SC-22.12	Multiscale Framework for Predicting the Coupling Between Deformation and Fluid Diffusion in Porous Rocks	113
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER16030 07/31/2014 Wasielewski	SC-22.13	Argonne-Northwestern Solar Energy Research (ANSER) Center -- EFRC	2,442
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER15967 04/30/2014 Hupp	SC-22.12	Coordination-Chemistry-Devised Materials Featuring Nanoscale Porosity and Selective Chemical Separation	215

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NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-98ER41086 12/31/2011 Segel	SC-26.1	Physics with Rare Isotope Beams	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER41397 08/31/2011 Velasco	SC-25	Development of Beam Instrumentation for CLIC at the CTF3 Facility at CERN	46
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-87ER40344 11/30/2013 Seth	SC-26.1	Strong Interaction Studies with Medium Energy Probes	345
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-10ER26037 08/31/2013 Mehrotra	SC-21.1	Sparse Grid Scenario Generation and Interior Algorithms for Stochastic Optimization in a Parallel Computing Environment	130
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-91ER40684 11/30/2012 Schellman, Petriello	SC-25	High Energy Physics Research	1,137
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-87ER25047 06/30/2014 Nocedal	SC-21.1	Statistical Learning, Stochastic Optimization and Active-Set Methods for Nonlinear Programming	117
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER25848 07/14/2012 Choudhary	SC-21.1	Active Storage with Analytics Capabilities and I/O Runtime System for Petascale Systems	194
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-07ER25808 11/14/2011 Choudhary	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	194
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-10ER26008 08/31/2013 Dinda	SC-21.1	Enabling Exascale Hardware and Software Design Through Scalable System Virtualization	205
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-10ER26015 08/31/2013 Choudhary	SC-21.1	Scalable and Power Efficient Data Analytics for Hybrid Exascale Systems	235
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-10ER26001 08/31/2013 Choudhary	SC-21.1	Damsel: A Data Model Storage Library for Exascale Science	225
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER25911 08/31/2012 Choudhary	SC-21.1	An Optimizing Compiler for Petascale I/O on Leadership-Class Architectures	175
RUSH UNIVERSITY MEDICAL CENTER Chicago, IL	DE-FG02-04CH11192 09/30/2011 Silva, Neff, Miller	SC-23	Regional Center for Advanced Medical Response	0
SOUTHERN ILLINOIS UNIVERSITY Carbondale, IL	DE-FG02-05ER46231 08/31/2012 Ge	SC-22.22	First Principles Based Simulation of Reaction-Induced Phase Transition in Hydrogen Storage and Other Materials	163
SOUTHERN ILLINOIS UNIVERSITY Carbondale, IL	DE-FG02-06ER46291 06/30/2013 Ali	SC-22.22	Understanding Compound Phase Transitions in Heusler Alloy Giant Magnetocaloric Materials: Extension to Multifunctional	169

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WHEATON COLLEGE Wheaton, IL	DE-FG02-08ER55002 07/31/2011 Craig	SC-24.2	Experimental Study of Impulsive Reconnection in a Current Carrying Arcade	133
Total for IL :				44,333

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INDIANA STATE UNIVERSITY Terre Haute, IN	DE-FG02-06ER46304 08/14/2013 Zhang	SC-22.22	Laser-Induced Ultrafast Magnetization in Ferromagnets	220
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-06ER46279 03/14/2012 Pynn	SC-22.21	Development of a New Methods for Studying Nanostructures Using Neutron Scattering	215
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-03ER46093 11/14/2012 Snow	SC-22.21	Polarized 3He in Neutron Scattering	316
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-06ER54865 01/14/2012 Bramley	SC-24.2	Computational Science in Fusion Energy - Center for Simulation of Wave Interactions with Magnetohydrodynamics	73
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-98ER14890 12/14/2013 Hieftje	SC-22.12	Elucidation and Reduction of Interference Effects in Inductively Coupled Plasma Spectrometry	178
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-07ER15889 01/31/2015 Jarrold	SC-22.11	Probing the mechanisms of catalytic H2 production from metal oxides and sulfides using cluster models: A combined experimental and theoretical approach	140
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-07ER15893 08/14/2013 Mindiola	SC-22.12	Synthesis and Exploratory Catalysis of 3D Metals: Group-Transfer, and Alkane Activation and Functionalization with	155
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-09ER16068 08/14/2012 Flood	SC-22.12	Binding Anions Selectively With Modular Triazolophanes and Releasing Them With Light	125
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-10ER26010 08/31/2013 Lumsdaine	SC-21.1	Compiled MPI: Cost-Effective Exascale Application Development	55
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-08ER25844 07/14/2012 Lumsdaine	SC-21.1	Minimizing System Noise Effects for Extreme-Scale Scientific Simulation Through Function Delegation	106
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-07ER25804 11/14/2010 Bramley	SC-21.1	Center for Technology for Advanced Scientific Component Software, (TASCS)	127
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-06ER25750 09/14/2012 Lumsdaine	SC-21.1	Coordinated Fault Tolerance for High Performance Computing	200
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-06ER41443 09/14/2012 Gottlieb	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	55
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-05ER41374 04/14/2013 Shepherd	SC-26.1	Understanding QCD in the Light Meson Sector (With Emphasis on Mapping Gluonic Excitations)	408
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-92ER40747 08/14/2012 Lee	SC-25	Physics of Beam Cooling, Space Charge Effects, and Beam Manipulation Technologies in High Energy Accelerators	238

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INDIANA UNIVERSITY Bloomington, IN	DE-FG02-88ER40404 12/31/2012 De Souza	SC-26.1	Many-Body Nuclear Dynamics	375
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-87ER40365 03/31/2014 Horowitz, Serot, Szczepaniak	SC-26.1	Theoretical Studies in Nuclear and Hadronic Physics	320
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-91ER40661 10/31/2012 Evans, Kostelecky, Musser, Ogren	SC-25	High Energy Experimental and Theoretical Particle Physics	1,768
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-10ER65085 09/14/2012 Dragoni	SC-23.1	Ecosystem-Atmosphere Exchange Over a Mixed Deciduous Forest in the Midwest: How Does the Carbon Budget Respond to Short-and	457
N UNIVERSITY ASSOCIATION, INC. Valparaiso, IN	DE-FG02-88ER40416 01/15/2012 Manweiler	SC-26.1	Measuring the Spin Structure of the Proton at RHIC	181
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-95ER40934 06/14/2013 Mathews	SC-26.1	Nuclear Properties at Extreme Density, Temperature, Spin and Isospin	190
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-00ER41145 07/31/2012 Losecco	SC-25	Research in CP Violation in the B Meson Sector & OJI Task-Optimizing Higgs Discovery Prospects at the Fermilab Tevatron	165
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER15880 06/30/2013 Burns	SC-22.12	Topological Structural Relationships, Cation-Cation Interactions, and Properties of U(VI), Np(V), Th(IV) Compounds	135
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-06ER15830 10/31/2012 Schneider	SC-22.12	Towards Realistic Reaction Environments in Catalysis Simulation	155
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER15851 02/14/2013 Bohn	SC-22.12	Molecular Aspects of Transport in Thin Films of Controlled Architecture	279
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-09ER16026 09/14/2013 Albrecht-Schmitt	SC-22.12	New Synthetic Methods and Structure - Property Relationships in Neptunium, Plutonium, and Americum Borates	135
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-10CH20015 12/31/2011 Rulli	SC-23	Innovation Park at Notre Dame, South Bend, IN	558
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FC02-04ER15533 10/31/2013 Carmichael	SC-22.13	Radiation and Photochemistry in the Condensed Phase and at Interfaces	4,795
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER46390 06/14/2014 Zhu	SC-22.23	Multi-Responsive Polyelectrolyte Brush Interfaces: Coupling of Brush Nanostructures and Interfacial Dynamics	74
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER64497 08/31/2011 Bohn	SC-23.2	Three Dimensional Molecular Imaging of Ionic Liquid Processing of Lignocellulosic Materials	0

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NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-10ER46783 08/31/2013 Eskildsen	SC-22.21	Metastable Vortex Lattices - Properties and Applications	176
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-10ER64986 06/14/2013 Burns	SC-23.1	Inorganic Controls on Neptunium Mobility in the Subsurface	203
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-88ER40412 12/31/2011 Scharenberg	SC-26.1	The Experimental Study of the Phase Structure of Hadronic Matter	670
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-03ER15466 09/14/2012 Delgass	SC-22.12	Catalyst Design by Discovery Informatics	780
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-08CH11486 03/31/2011 Hanak, Dimmett	SC-23	Purdue Technology Center of Northwest Indiana Addition	0
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-96ER14641 10/31/2011 Basaran	SC-22.12	Electrohydrodynamic Tip Streaming	415
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER55069 04/14/2015 Allain	SC-24.2	RECOVERY ACT - Harnessing Nanotechnology for Fusion Plasma-Material Interface Research in an In-situ Particle-Surface	750
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER54990 05/14/2014 Allain	SC-24.2	Deciphering the PMI Surface Chemistry of Lithium-based PFCs and its Effects on High Performance Plasmas in NSTX	98
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER54991 05/14/2014 Hassanein	SC-24.2	Integrated Study of Lithium Expansion and Contamination in the SOL of the Liquid Lithium Divertor of NSTX During Normal and	150
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-09ER55015 06/14/2012 Allain	SC-24.2	An In-Situ Materials Analysis Particle Probe (MAPP) Diagnostic to Study Particle Density Control and Hydrogenic Fuel Retention in NSTX	180
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER54979 12/31/2013 Hassanein	SC-24.2	integrated Prediction and Mitigation Methods of Material Damage and Lifetime Analysis During Plasma Instabilities in	960
PURDUE UNIVERSITY West Lafayette, IN	DE-FC02-09ER55024 07/31/2011 Brooks	SC-24.2	Purdue Contribution of Fusion Simulation Program	50
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER46696 05/14/2013 Durbin	SC-22.3	Picosecond X-ray Detector for Synchrotrons	146
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER46398 07/14/2013 Koslowski	SC-22.22	Plastic Strain Recovery in Nanocrystalline Materials	84
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER46399 07/31/2013 Strachan	SC-22.22	Turnable Hetero-Epitaxial Shape Memory Alloys	200

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PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER41665 04/14/2015 Molnar	SC-26.1	RECOVERY ACT - Viscosity and Equation of State of Hot and Dense QCD Matter	626
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER41681 05/31/2013 Molnar	SC-26.1	Quantitative Jet and Electromagnetic Tomography (JET) of Extreme Phases of Matter in Heavy-Ion Collisions	21
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10CH20014 12/31/2011 Nnanna	SC-23	Purdue University Calumet Water Institute	1,944
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-96ER14656 02/14/2013 Zwier	SC-22.11	Isomer-specific spectroscopy and isomerization in aromatic fuels	250
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-00ER15105 05/31/2012 McLuckey	SC-22.12	The Dynamics and Thermodynamics of Gaseous Macro-ions	150
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-03ER15391 10/31/2013 Lucht	SC-22.11	Advanced Nonlinear Optical Methods for Quantitative Measurements in Flames	120
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-03ER15408 06/30/2014 Ribeiro	SC-22.12	Fundamental Studies on the Kinetics of Oxidation Reactions	0
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-04ER15526 05/14/2013 Staiger	SC-22.13	Regulation of Actin Filament Ends: The Role of Capping Proteins in Stochastic Dynamics and Organelle Behavior	170
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER15905 08/31/2014 Chapple	SC-22.13	Regulation of Carbon Allocation to Phenylpropanoid Metabolism	0
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-06ER15794 06/30/2012 Abu-Omar	SC-22.12	Oxo Catalyst for the Conversion of Lignocellulosic Biomass	155
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-05ER15752 05/31/2014 Choi	SC-22.13	Construction of High Performance, Low Cost Photoelectrodes with Controlled Polycrystalline Architectures	237
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER16184 07/31/2013 Pushkar	SC-22.13	SISGR - Understanding Electronic and Atomic Requirements in Catalytic Water Oxidation	180
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER16196 10/31/2013 Wasserman	SC-22.11	Towards Linear Scaling Electronic Structure via Partition Density Functional Theory, with Application to Electrochemical Capacitors	120
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-09ER16022 07/14/2012 Pyrak-Nolte	SC-22.12	The Physics of Swarms in Fracture Networks: Integration of Seismic Characterizaion and Controlled	112
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-91ER40681 10/31/2011 Shipsey, Barnes, Gutay, Miller	SC-25	Experimental and Theoretical High Energy Physics Program	2,322

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER26023 08/31/2013 Xiu	SC-21.1	Advanced Dynamically Adaptive Algorithms for Stochastic Simulations on Extreme Scales	153
PURDUE UNIVERSITY West Lafayette, IN	DE-FC02-08ER25864 08/14/2012 Pothen	SC-21.1	Combinatorial Scientific Computing and Petascale Simulations Institute	425
PURDUE UNIVERSITY West Lafayette, IN	DE-FC02-06ER25789 09/14/2011 Grama	SC-21.1	Hierarchical Petascale Simulation Framework for Stress Corrosion Cracking	79
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER64599 07/31/2011 Zhuang	SC-23.1	Quantifying Climate Feedbacks From Abrupt Changes in High-Latitude Trace-Gas Emissions	30
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER64702 09/14/2012 Carpita	SC-23.2	Translational Genomics for the Improvement of Switchgrass	400
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER64674 08/31/2011 Niyogi	SC-23.1	Utilizing CLASIC Observations and Multiscale Models to Study the Impact of Improved Land Surface Representation on Modeling Cloud - Convection Initiation	0
SOUTHERN INDIANA, UNIV. OF Evansville, IN	DE-FG02-10CH20013 12/31/2011 Gordon	SC-23	Advanced Manufacturing and Engineering Equipment at the University of Southern Indiana	972
TRINE UNIVERSITY Angola, IN	DE-FG02-10CH20016 12/31/2011 Lantz	SC-23	Applied Biomechanical Engineering Graduate Program at Trine University	388
Total for IN :				25,914

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-04ER15504 12/31/2012 Chu	SC-22.11	Atomic and Molecular Physics in Strong Fields	142
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-05ER15708 03/14/2012 Thompson	SC-22.11	Understanding Nanoscale Confinement Effects in Solvent-Driven Chemical Reactions	137
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-96ER40981 05/31/2014 Sanders	SC-26.1	Research in Heavy-Ion Nuclear Physics at CMS	331
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-04ER41308 04/30/2013 Ralston	SC-25	Research in Theoretical Particle Physics	166
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-07ER54940 07/31/2014 Medvedev	SC-24.2	Studies of HED Plasmas with Self-Generated Magnetic Fields	69
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-10ER65093 08/31/2013 Brunsell	SC-23.1	Assessing Regional Scale Variability in Extreme Value Statistics Under Altered Climate Scenarios	342
D CTR RES INST, INC , UNIV. OF Kansas City, KS	DE-FG02-10CH20018 09/29/2015 Terranova	SC-23	Univesity of Kansas Medical Center Cancer Research Equipment	3,888
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-08ER46504 12/31/2011 Jankowiak	SC-22.21	Excitation Energy Transfer in Natural Photosynthetic Complexes and Chlorophyll Trefoils: Hole-Burning and Single Complex/Trefoil Spectroscopic Studies	15
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-07ER64476 08/31/2011 Kulcsar, Selfa	SC-23.2	The Biofuels Revolution: Understanding the Social, Cultural and Economic Impacts of Biofuels Development on Rural Communities	0
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-10ER46738 08/14/2013 Edgar	SC-22.21	Materials Development for Boron Phosphide Based Neutron Detectors	528
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-86ER13491 02/14/2013 Ben-Itzhak	SC-22.11	Structure and Dynamics of Atomics, Ions, Molecules and Surfaces	2,500
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-06ER15832 08/31/2012 Lin	SC-22.11	Time-Resolved Chemical Imaging of Molecules by High-Order Harmonics and Ultra Short Rescattering Electrons	145
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-09ER16095 09/14/2012 Ito	SC-22.12	SISGR - Molecular-Level Investigation of Diffusion Behaviors within Cylindrical Nanoscale Pores	240
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-10ER16202 09/14/2013 Klabunde	SC-22.12	Nanoscale Molecules Under Thermodynamic Control: "Digestive Ripening" or "Nanomachining"	150
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-99ER41093 10/31/2013 Bolton	SC-25	Heavy Quark and Neutrino Physics	723

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
RADIATION RESEARCH SOCIETY Lawrence, KS	DE-FG02-10ER65050 08/14/2011 O'Neill	SC-23.2	Sponsorship Of Two Symposia At The Radiation Research Society Annual Meeting-September 2010	10
Total for KS :				9,386

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-84ER40154 01/31/2013 Liu	SC-26.1	Lattice QCD Calculation of Hadronic Spectrum, Nucleon Structure, and Finite Density	193
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-99ER41101 04/30/2014 Korsch	SC-26.1	Fundamental Studies of Hadronic Structure	176
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-96ER40989 07/14/2014 Gardner	SC-26.1	Fundamental Physics with Hadrons and Nuclei, from Quarks to the Cosmos	110
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-07ER46375 07/14/2014 Grulke	SC-22.21	Nanoscale Materials and Architectures for Energy Conversion	699
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-00ER45817 03/31/2012 Menon	SC-22.22	Magnetism in Non-Traditional Materials	118
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-97ER45653 05/14/2014 De Long	SC-22.22	Competing Interactions in Complex Transition Metal Oxides	120
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-08ER41557 04/14/2014 Plaster	SC-26.1	Neutrons and Fundamental Symmetries	105
LE RES. FOUND., INC., UNIV. OF Louisville, KY	DE-FG02-98ER41089 09/14/2012 Brown	SC-25	Contributions to Studies of CP Violation and Hadronic Physics with the Babar Collaboration	107
LE RES. FOUND., INC., UNIV. OF Louisville, KY	DE-FG02-10ER65048 09/14/2013 Dowling	SC-23.2	Atmospheric Science Program at the University of Louisville	340
TRANSYLVANIA UNIVERSITY Lexington, KY	DE-FG02-10CH20001 05/31/2011 Mathews	SC-23	Transylvania University Phase 4A Renovation - Brown Science Center Laboratories and Equipment	631
Total for KY :				2,599

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
LOUISIANA BOARD OF REGENTS Baton Rouge, LA	DE-FG02-04ER46136 04/14/2012 Khonsari	SC-22.21	Ubiquitous Computing and Monitoring System (UCoMS) for Discovery and Management of Energy Resources	300
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-09ER25922 09/14/2012 Wan	SC-21.1	Stochastic Nonlinear Data-Reduction Methods with Detection and Prediction of Critical Rare Event	41
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FC02-10ER25916 08/14/2012 Jarrell	SC-21.1	Next Generation Multi-Scale Quantum Simulation Software for Strongly Correlated Materials	884
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-98ER20310 08/31/2014 Bricker	SC-22.13	Photosystem II: Structure and Assembly	223
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-91ER40617 03/31/2013 Matthews, Metcalf	SC-25	Research in Elementary Particle Physics and Cosmic Ray Physics	786
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-96ER40978 03/14/2014 Blackmon	SC-26.1	Studying Nuclei Far From Stability	195
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-01ER15178 10/31/2013 Poliakoff	SC-22.11	Molecular photoionization studies of nucleobases and correlated systems	155
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-10CH20019 09/29/2013 Cherry	SC-23	Renovation of LSU Nuclear Science Building and Development of Nuclear Workforce Program	972
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-10ER41707 08/31/2013 Blackmon	SC-26.2	The Structure of Nuclei far From Stability	96
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-07ER46420 07/31/2013 Adams	SC-22.22	Quantum Transport in Thin Film Correlated Insulators	200
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-08ER46492 06/14/2012 Vekhter	SC-22.21	Inhomogeneous Disordered Dirac Fermions: From Heavy Fermion Superconductors to Graphene	10
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-09ER46576 07/31/2014 Spivey	SC-22.11	Computational Catalysis and Atomic-Level Synthesis of Materials: Building Effective Catalysts from First Principles - EFRC	2,285
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-09ER46649 09/14/2012 Plummer	SC-22.21	SISGR - Emerging Functionality in Transition-Metal Compounds Driven by Spatial Confinement	380
SIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-10ER46717 06/30/2013 Draayer	SC-22.21	Ab Initio Nuclear Structure and Reaction Calculations for Rare Isotopes	420
LOUISIANA TECH UNIVERSITY Ruston, LA	DE-FG02-10ER46723 07/31/2013 Wobisch	SC-22.21	Searches for New Physics Phenomena in Hadronic Jet Production in the Early ATLAS Data	224

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
LOUISIANA TECH UNIVERSITY Ruston, LA	DE-FG02-99ER41117 04/14/2013 Sawyer	SC-25	Research in High Energy Physics	310
LOUISIANA TECH UNIVERSITY Ruston, LA	DE-FG02-08ER25836 05/31/2011 Leangsuksun	SC-21.1	Reliability, Availability and Serviceability (RAS) for Petascale High-End Computing and Beyond	50
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FG02-05ER15702 11/14/2011 Diebold	SC-22.12	Towards a Molecular-Scale Understanding of Surface Chemistry and Photocatalysis on Metal Oxides: Surface Science Experiments and First-Principles Theory	230
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FG02-96ER14617 05/31/2014 Schmehl	SC-22.13	Energy, Electron Transfer and Photocatalytic Reactions of Visible Light Absorbing Transition Metal Complexes	140
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FG02-08CH11518 08/31/2011 Altiero	SC-23	Materials and Energy Science Clean Room Facility at Tulane University	0
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FC02-06ER64298 02/28/2013 Tornqvist	SC-23.1	Center for Riparian and Coastal Ecosystem Research	1,686
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FG02-10ER46719 07/14/2013 Blake	SC-22.21	Antibodies to Radionuclides: Engineering by Surface Display for Immunosensors	533
Total for LA :				10,120

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
RIC & ENVIRONMENTAL RES., INC. Lexington, MA	DE-FG02-90ER61064 10/31/2011 Mlawer, Clough	SC-23.1	Radiative Transfer for Clear and Cloudy Atmospheres: Spectral Modeling and Validation	284
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-99ER45747 11/30/2011 Wang	SC-22.22	Disorder and Interaction in Correlated Electron Systems	91
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-00ER45805 03/14/2014 Ren	SC-22.22	High Performance Bulk Thermoelectric Materials	150
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-09ER46633 09/14/2012 Wang	SC-22.22	SISGR - Focused Research Center in Correlated Electronic Materials	350
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-05ER63995 12/31/2011 Davidovits	SC-23.1	Laboratory Experiments and Instrument Development for the Study of Atmospheric Aerosols	220
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-10ER46755 08/14/2013 Padilla	SC-22.22	Metamaterials as a Platform for the Development of Novel Materials for Energy Applications	100
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-91ER20025 08/31/2012 Roberts	SC-22.13	Osmoregulation in Methanogens	130
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-10CH20017 09/29/2011 Scibilia	SC-23	Infrastructure for Integrated Sciences	1,944
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-93ER14359 06/30/2012 Scott	SC-22.12	High Temperature Chemistry of Aromatic Hydrocarbons	165
BOSTON UNIVERSITY Boston, MA	DE-FG02-95ER14498 11/30/2013 Klein	SC-22.12	Collaborative Research: Statistical Mechanics of Defect-Mediated Dynamics in Complex Geomaterials	159
BOSTON UNIVERSITY Boston, MA	DE-FC02-10ER25994 08/31/2013 Appavoo	SC-21.1	A Fault-Oblivious Extreme-Scale Execution Environment	60
BOSTON UNIVERSITY Boston, MA	DE-FC02-06ER41440 09/14/2012 Brower, Rebbi	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	206
BOSTON UNIVERSITY Boston, MA	DE-FG02-91ER40676 01/31/2013 Stone	SC-25	Research in Particle Physics	2,550
BOSTON UNIVERSITY Boston, MA	DE-FG02-09ER46643 09/14/2012 Averitt	SC-22.21	SISGR - Multifunctional Materials Research Using Ultrafast Optical Spectroscopy	149
BOSTON UNIVERSITY Boston, MA	DE-FG02-08ER64564 06/14/2012 Knyazikhin	SC-23.1	Use of ARM Measurements of Spectral Zenith Radiance for Better Understanding of 3D Cloud-Radiation Processes and	28

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
BOSTON UNIVERSITY Boston, MA	DE-FG02-08ER46512 08/31/2014 Castro Neto	SC-22.22	The Physics of Graphene	110
BOSTON UNIVERSITY Boston, MA	DE-FG02-06ER46316 11/14/2012 Chamon	SC-22.22	Quantum Nanowire Multi-Connections	0
BOSTON UNIVERSITY Boston, MA	DE-FG02-06ER46332 12/31/2012 Paiella	SC-22.23	Plasmonic Nanostructures Integrated with Semiconductor Light Emitting Materials for Enhanced Efficiency and Functionality	155
BOSTON UNIVERSITY Boston, MA	DE-FG02-98ER45680 12/14/2013 Smith	SC-22.22	Probing the Origins of Conductivity Transitions in Correlated Solids: Experimental Studies of Electronic	100
BOSTON UNIVERSITY Boston, MA	DE-FG02-85ER45222 12/31/2011 El-Batanouny	SC-22.23	Investigations of Surface Structural, Dynamical and Magnetic Properties of Systems Exhibiting Multiferroicity, Magnetoelectricity, Thermoelectricity.....	173
BOSTON UNIVERSITY Boston, MA	DE-FG02-03ER46037 10/31/2012 Ludwig	SC-22.21	Real-time X-ray Studies of Surface and Thin Film Processes	115
BOSTON UNIVERSITY Boston, MA	DE-FG02-10ER65025 08/14/2013 Segre	SC-23.2	An Open Source Platform for Multi-scale Spatially Distributed Simulations of Microbial Ecosystems	503
BOSTON UNIVERSITY Boston, MA	DE-FG02-09ER64797 08/31/2012 Goldstein	SC-23.2	Non-Invasive Detection and Molecular Analysis of Early Low X-Ray Dose Effects to the Lens	263
BOSTON UNIVERSITY Boston, MA	DE-FG02-10ER65107 09/14/2013 Anderson	SC-23.1	Pacific Decadal Variability and Central Pacific Warming El Nino in a Changing Climate	52
BRANDEIS UNIVERSITY Waltham, MA	DE-FG02-92ER40706 12/31/2012 Blocker	SC-25	Research in Elementary Particle Physics	796
BRANDEIS UNIVERSITY Waltham, MA	DE-FG02-05ER15699 08/14/2013 Kern	SC-22.12	Catalysis, Dynamics and Stability of Enzymes Under Extreme Conditions	170
BRANDEIS UNIVERSITY Waltham, MA	DE-FG02-10ER16143 04/14/2015 Thomas	SC-22.12	RECOVERY ACT - Early-Late Heterobimetallic Complexes Linked by Phosphinoamide Ligands: Tuning Redox Potentials and Small	600
BRIGHAM AND WOMEN'S HOSP., INC Boston, MA	DE-FG02-10ER41691 07/31/2013 DeGrado	SC-26.2	Novel Cyclotron-Based Radiometal Production	940
ST. ELIZABETH'S MEDICAL CENTER Boston, MA	DE-FG02-09ER64808 07/31/2012 Hahnfeldt	SC-23.2	Implications of Population Heterogeneity for Low-Dose Risk	347
ST. ELIZABETH'S MEDICAL CENTER Boston, MA	DE-FG02-09ER64814 07/31/2014 Hlatky	SC-23.2	Multi-Scale Systems Biology of Low-Dose Carcinogenesis Risk	1,500

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CHILDREN'S HOSPITAL CORP. Boston, MA	DE-FG02-08ER64704 09/14/2011 Packard	SC-23.2	In Vitro Assessment of the In Vivo Stability of Cu-64 Radiopharmaceuticals	0
CLARK UNIVERSITY Worcester, MA	DE-FG02-02ER15367 01/14/2012 Kudrolli	SC-22.12	Physics of Channelization: Theory, Experiment, and Observation	64
CLARK UNIVERSITY Worcester, MA	DE-FG02-05ER46214 01/31/2011 Agosta	SC-22.22	Novel Superconducting States in Organic and Other Anisotropic Superconductors	0
HARVARD COLLEGE Boston, MA	DE-FG02-05ER64089 12/31/2011 Little	SC-23.2	Bystander Effects of Ionizing Radiation	50
HARVARD COLLEGE Boston, MA	DE-FG02-10ER46751 05/14/2014 Aizenberg	SC-22.23	Actuation of Bioinspired, Adaptive "HAIRS" Powered by Responsive Hydrogels	410
HARVARD COLLEGE Cambridge, MA	DE-FG02-10ER41664 04/14/2015 Schwartz	SC-25	RECOVERY ACT - Understanding Jets at the Large Hadron Collider	600
HARVARD COLLEGE Cambridge, MA	DE-FG02-08ER41569 08/14/2011 Stubbs	SC-25	Attaining the Photometric Precision Required by Future Dark Energy Projects	0
HARVARD COLLEGE Cambridge, MA	DE-FG02-00ER45852 01/31/2014 Whitesides	SC-22.23	Dynamic Self-Assembly, Emergence, and Complexity	300
HARVARD COLLEGE Cambridge, MA	DE-FG02-01ER45921 03/14/2012 Parks	SC-22.21	Electron Diffraction Determination of Nanoscale Structures	173
HARVARD COLLEGE Cambridge, MA	DE-FG02-06ER46335 05/14/2013 Aziz	SC-22.23	Nanoscale Morphology Evolution under Ion Irradiation	233
HARVARD COLLEGE Cambridge, MA	DE-FG02-07ER46422 05/14/2013 Westervelt	SC-22.22	Electron Imaging in Graphene	140
HARVARD COLLEGE Cambridge, MA	DE-FG02-08ER46513 08/31/2014 Heller	SC-22.22	Theory of Electron Imaging in Small Devices	120
HARVARD COLLEGE Cambridge, MA	DE-FG02-09ER46646 09/14/2012 Yacoby	SC-22.21	SISGR - Transport and Imaging of Mesoscopic Phenomena in Single and Bilayer Graphene	400
HARVARD COLLEGE Cambridge, MA	DE-FG02-08ER64556 05/14/2012 Kuang	SC-23.1	Using ARM Observations to Evaluate and Improve Wave-Convection Interactions in Global Climate Models: An Extended Single Column Modeling Approach	117
HARVARD COLLEGE Cambridge, MA	DE-FG02-91ER40654 10/31/2011 Franklin, Stubbs, Strominger	SC-25	Research in High Energy Physics	2,343

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
HARVARD COLLEGE Cambridge, MA	DE-FC02-06ER25790 09/14/2012 Kaxiras	SC-21.1	Hierarchical Petascale Simulation Framework for Stress Corrosion Cracking	86
HARVARD COLLEGE Cambridge, MA	DE-FG02-09ER16104 09/14/2012 Xie	SC-22.11	SISGR: Room Temperature Single-Molecule Detection and Imaging by Stimulated Emission Microscopy	220
HARVARD COLLEGE Cambridge, MA	DE-FG02-10ER65100 08/31/2013 Tziperman	SC-23.1	Improving Interannual Prediction Skill in a Changing Climate Via the Identification of Compensating Coupled Model Errors	360
HARVARD COLLEGE Cambridge, MA	DE-FG02-10ER65097 09/14/2012 Munger	SC-23.1	Evaluating the Contribution of Climate Forcing and Forest Dynamics to Accelerating Carbon Sequestration by	305
HARVARD MEDICAL SCHOOL Boston, MA	DE-FG02-02ER63445 11/30/2011 Church	SC-23.2	Microbial Ecology, Proteogenomics and Computational Optima	2,127
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-02ER15316 06/14/2014 Doyle	SC-22.11	Ultracold Molecules: Physics in the Quantum Regime	140
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-88ER13861 03/31/2012 Dalgarno	SC-22.11	Theoretical Investigations of Atomic Collision Physics	135
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-84ER13289 11/30/2012 Friend	SC-22.12	Molecular-Scale Understanding of Selective Oxidative Transformation of Alcohols Promoted by Au and Au-Based Alloys	254
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-08ER64511 11/30/2011 Serres	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	0
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-08ER64517 12/31/2011 Melillo	SC-23.1	Effects of Warming on Tree Species' Recruitment in Deciduous Forests of the Eastern United States	628
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-85ER13361 04/30/2015 Zinder	SC-22.13	Investigations into the Metabolic Diversity of Microorganisms as Part of Microbial Diversity	45
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-08ER64648 08/14/2012 Melillo	SC-23.1	Impacts of Climate Change on Biofuels Production	140
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-10ER65099 09/14/2012 Melillo	SC-23.1	Long-Term Soil Warming and Carbon Cycle Feedbacks to the Climate System	508
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER64597 07/31/2012 Schlosser	SC-23.1	Quantifying Climate Feedbacks From Abrupt Changes in High-Latitude Trace-Gas Emissions	138
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER64592 07/14/2012 Hill	SC-23.1	Collaborative Research: Abrupt Climate Change and the Atlantic Meridional Overturning Circulation - Sensitivity and Non-Linear Response to Arctic/Sub-Arctic	98

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				FY 2010
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-10ER64947 04/14/2015 Webster	SC-23.1	RECOVERY ACT - Methods for Decision Under Technological Change Uncertainty and Risk Assessment for Integrated Assessment of	600
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-10ER41712 10/31/2011 Milner	SC-26.1	Particles and Nuclei International Conference PANIC11 at MIT Young Scientist Support	50
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-90ER45429 10/31/2011 Chen	SC-22.21	Neutron and X-Ray Scattering Studies of the Liquid-Liquid Transition in Supercooled Confined Water and the Slow	365
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-96ER45571 08/31/2013 Ceder	SC-22.22	First Principles Determination of Structure, Thermodynamics, and Transport in Metals and Oxides	173
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-04ER46134 11/30/2013 Lee	SC-22.21	A Unified Effort for Crystal Growth, Neutron Scattering, and X-ray Scattering Studies of Novel Correlated Electron	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-04ER46149 05/31/2014 Benedek	SC-22.23	Self-Assembling Biological Springs: Force Transducers on the Micron and Nanoscale	200
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-03ER46076 11/30/2012 Lee	SC-22.22	Strongly Correlated Electronic Systems: Local Moments and Conduction Electrons	160
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-02ER45977 12/31/2013 Chen	SC-22.22	Near-field Thermal Radiation Between Two Objects at Extreme Separations	159
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER46636 09/14/2012 Tuller	SC-22.22	SISGR - Chemomechanics of Far-From-Equilibrium Interfaces (COFFEI)	880
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER46556 07/31/2013 Moncton	SC-22.21	Optics for Advanced Neutron Imaging and Scattering	293
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER46577 07/31/2014 Chen	SC-22.22	Solid-State Solar-Thermal Energy Conversion Center (S3TEC CENTER) -- EFRC	3,280
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER46474 06/30/2013 Baldo	SC-22.23	High Efficiency Biomimetic Organic Solar Cells	275
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER46488 08/14/2014 Strano	SC-22.23	Self Assembly and Self-Repair of Novel Photosynthetic Reaction Center/Single Walled Carbon Nanotube Complexes for Solar	210
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER46454 08/31/2013 Bawendi	SC-22.22	Probing Nanocrystal Electronic Structure and Dynamics in the Limit of Single Nanocrystals	275
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER46514 07/31/2014 Ashoori	SC-22.22	Novel Temperature Limited Tunneling Spectroscopy of Quantum Hall Systems	150

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER46515 07/31/2014 Kastner	SC-22.22	Measurement of Single Electronic Charging of Semiconductor Nano-Crystal	150
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER46521 08/14/2014 Gedik	SC-22.21	Ultrafast Electronic and Structural Dynamics in Quantum Materials	234
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-99ER54512 10/31/2013 Marmar, Porkolab, Hutchinson	SC-24.2	Alcator C-Mod Fusion Research Program	22,687
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-98ER54458 10/31/2011 Kesner	SC-24.2	Levitated Dipole Experiment	1,190
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER54525 03/14/2014 Bonoli	SC-24.2	Full-wave Studies of High Harmonic Heating in NSTX with Application to Transport Analysis, Fast Ion Interactions and Antenna Coupling	58
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER54563 11/30/2011 Porkolab	SC-24.2	Fast Particle-Wave Interaction and Alfvén Eigenmodes in the JET Tokamak Plasma	126
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-94ER54235 12/14/2012 Porkolab	SC-24.2	Experimental Research in Advanced Physics and Technology	556
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-01ER54648 03/31/2016 Bonoli	SC-24.2	Center for Simulation of Wave-Plasma Interactions	198
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-03ER54700 03/31/2012 Coppi	SC-24.2	Physics of High Energy Plasmas	412
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER54836 05/31/2012 Chen	SC-24.2	Exploration of Plasma Jets Approach to High Energy Density Physics	72
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-04ER54802 02/14/2016 Sugiyama	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	75
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-06ER54855 01/14/2012 Ramos	SC-24.2	SciDAC - Simulation of Wave Interactions with MHD	100
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-06ER54859 01/14/2012 Sugiyama	SC-24.2	SciDAC - Center for Plasma Edge Simulation	66
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-06ER54891 07/31/2012 Hutchinson	SC-24.2	Interactions of a Flowing Plasma with a Collecting Sphere	84
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER46668 09/14/2012 Chiang	SC-22.22	Electrochemically-Driven Phase Transitions in Battery Storage Compounds	196

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-93ER54209 11/30/2011 Temkin	SC-24.2	Electron Cyclotron Resonance Heating Technology Development	15
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-91ER54109 11/14/2011 Catto	SC-24.2	Theoretical Research in Advanced Physics and Technology	1,270
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-93ER54186 11/14/2012 Minervini	SC-24.2	Fusion Development and Technology	1,445
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-10ER46745 08/31/2013 Kaertner	SC-22.3	Key Laser Technologies for XRay FELs	900
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-08ER54966 02/14/2016 Ernst	SC-24.2	Center for the Study of Plasma Microturbulence	100
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-08ER54969 02/14/2016 Ramos	SC-24.2	MIT PSFC Participation in Center for Extended Magnetohydrodynamics Modeling	60
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-09ER55023 07/31/2011 Greenwald	SC-24.2	Fusion Simulation Program	100
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-93ER61677 08/14/2011 Prinn, Marotzke, Stone	SC-23.1	Coupled Atmosphere-Ocean Models	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-94ER61937 12/14/2013 Prinn, Jacoby	SC-23.1	An Integrated Framework for Climate Change Assessment	1,200
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER64516 12/31/2011 Chisholm	SC-23.2	Genomic Structure, Metagenomics, Horizontal Gene Transfer, and Natural Diversity of Prochlorococcus and Vibrio	600
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER64506 08/31/2011 DeLong	SC-23.2	Microbial Gene Expression in the Ocean: Community Gene Function and Dynamics Revealed	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER15839 11/30/2012 Durham	SC-22.12	Rheological Properties of Earth's Upper Mantle at High Pressure: Roles of Melt, Water and Pressure	87
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER15728 06/14/2012 Shao-Horn	SC-22.12	Towards fundamental understanding the mechanisms of oxygen reduction and evolution electrocatalysis on perovskite	190
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER15745 10/31/2011 Nocera	SC-22.13	Hangman Catalysts for Photo- and Photoelectro- Chemical Activation of Water	190
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-10ER16140 04/14/2015 Juanes	SC-22.12	RECOVERY ACT - Nonequilibrium Physics and Phase-Field Modeling of Multiphase Flow in Porous Media	600

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MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-00ER15087 06/30/2014 Nelson	SC-22.11	Nonlinear Materials Spectroscopies Probed by Ultrafast X-Rays	144
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER15004 01/14/2012 Rothman	SC-22.12	Physics of Channelization: Theory, Experiment, and Observation	182
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER14988 02/28/2015 Tokmakoff	SC-22.11	Structural Dynamics in Complex Liquids Studied with Multidimensional Vibrational Spectroscopy	251
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-98ER14914 12/14/2013 Green, Jr.	SC-22.11	Computer-Aided Construction of Chemical Kinetic Models	130
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-86ER13564 11/30/2012 Schrock	SC-22.12	The Polymerization of Olefins and Alkynes with New Alkylidene Catalysts	170
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-87ER13671 10/31/2011 Field	SC-22.11	Spectroscopic and Dynamical Studies of Highly Energized Small Polyatomic Molecules	160
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-97ER14760 08/31/2012 Evans	SC-22.12	Collaborative Research: Evolution of Pore Structure and Permeability of Rocks Under Hydrothermal Conditions	358
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-94ER40818 10/31/2013 Milner	SC-26.1	Research in Nuclear Physics	8,810
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-95ER40919 03/31/2013 Chen	SC-25	Theoretical and Computational Investigation of Periodically Focused Intense Charged Particle Beams	271
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-91ER40648 11/30/2012 Temkin	SC-25	17 GHz High Gradient Accelerator Research	527
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER41360 10/31/2013 Milner	SC-25	Laboratory for Nuclear Science - High Energy Physics Program	9,141
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-06ER41420 06/30/2011 Formaggio	SC-26.1	Probing the Absolute Mass Scale of Neutrinos	230
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-06ER41444 03/14/2012 Negele	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	264
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER25943 09/14/2012 Marzouk	SC-21.1	Large Scale Optimization for Bayesian Inference in Complex Systems	149
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER25858 08/15/2012 Willcox	SC-21.1	Large-Scale Optimization for Bayesian Inference in Complex Systems	150

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MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-10ER25961 01/31/2013 Marzouk	SC-21.1	RECOVERY ACT - Analysis and Reduction of Complex Networks Under Uncertainty	300
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-10ER25978 04/14/2015 Marzouk	SC-21.1	RECOVERY ACT - Predictive Modeling of Complex Physical Systems: New Tools for Uncertainty Quantification, Statistical Inference, and Experimental Design	629
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-10ER26009 08/31/2013 Amarasinghe	SC-21.1	ZettaBricks: A Language Compiler and Runtime System for Anyscale Computing	613
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-10ER25998 08/31/2013 Solar Lezama	SC-21.1	Software Synthesis for High Productivity Exascale Computing	195
USETTS MEDICAL SCHOOL, UNIV OF Worcester, MA	DE-FG02-10CH20020 07/31/2011 Moore	SC-23	Procurement of State-of-the Art Research Equipment to Support Faculty Members within the RNA Therapeutics Institute, A	291
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-92ER40715 12/31/2012 Willcoq, Brau	SC-25	Experimental Elementary Particle Physics Research	491
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-88ER40415 12/31/2011 Miskimen, Kumar	SC-26.1	Precision Studies of QCD and Electro-Weak Interactions	631
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-87ER13744 05/31/2014 Jackson	SC-22.11	Theory of the Reaction Dynamics of Small Molecules on Metal Surfaces	202
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-03ER15421 08/14/2012 Baskin	SC-22.13	Cellulose and the Control of Growth Anisotropy	165
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-05ER15695 11/14/2011 Barnes	SC-22.12	Chemical Microscopy of Novel Nanostructures and Conjugated Organic Macromolecules	155
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FC02-02ER63446 08/31/2012 Lovley	SC-23.2	Genome-Based Models to Optimize In Situ Bioremediation of Uranium and Harvesting Electrical Energy from Waste Organic	2,160
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-07ER46466 08/31/2013 Monson	SC-22.22	Modeling the Self-Assembly of Ordered Nanoporous Materials	185
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-07ER46407 07/31/2013 Maroudas	SC-22.22	Surface Engineering by Simultaneous Action of Multiple External Fields	245
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-04ER46126 03/14/2014 Russell	SC-22.21	Nanoparticles Assemblies at Fluid Interfaces	134
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-96ER45612 06/14/2013 Russell	SC-22.23	Interfacial Behavior of Polymers: Using Interfaces to Manipulate Polymers	335

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MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-10ER64951 05/14/2013 Lovley	SC-23.1	Coupled in Silico Microbial and Geochemical Reactive Transport Models: Extension to Multi-Organism Communities	331
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-10ER64960 05/31/2013 Lovley	SC-23.1	Mechanisms for Electron Transfer Through Pili to Fe(III) Oxide in Geobacter	275
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-10ER65041 07/31/2012 Lovley	SC-23.1	Diagnosis of In Situ Metabolic State and Rates of Microbial Metabolism During In Situ Uranium Bioremediation with Molecular Techniques	471
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-10ER64998 06/30/2013 Lovley	SC-23.2	Systems Level Analysis of Function & Adaptive Responses of Methanogenic Consortia	760
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-08ER64700 09/14/2011 Hazen	SC-23.2	Systems Level Engineering of Plant Cell Wall Biosynthesis to Improve Biofuel Feedstock Quality	400
MASSACHUSETTS, UNIVERSITY OF Boston, MA	DE-FG02-10ER64982 09/14/2011 Xia	SC-23.2	Establishment of the Northeast Coastal Watershed Geospatial Data Network	291
MASSACHUSETTS, UNIVERSITY OF Dartmouth, MA	DE-FG02-10ER26022 08/31/2013 Vokkarane	SC-21.1	COMMON: Coordinated Multi-Layer Multi-Domain Optical Network Framework for Large-Scale Science Applications	174
MASSACHUSETTS, UNIVERSITY OF Lowell, MA	DE-FG02-94ER40848 03/31/2014 Chowdhury	SC-26.1	Single-Particle and Collective Phenomena in Nuclei	228
AL BUREAU OF ECONOMIC RESEARCH Cambridge, MA	DE-FG02-08ER64640 08/14/2011 Schlenker	SC-23.1	Statistical Methods in Integrated Assessment Models of Climate Change: Applications to Agriculture and Energy Systems	117
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-09ER64823 08/31/2013 Hanson	SC-23.2	Training Program in Radiochemistry and Radiotracer Development	599
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-10ER64944 05/31/2012 Gu	SC-23.1	Quantitative Characterization of Cell Aggregation/Adhesion as Predictor for Distribution and Transport of Microorganisms in Subsurface Environment	108
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-10ER65058 08/31/2013 Gatley	SC-23.2	Radiotracers for Lipid Signaling Pathways in Biological Systems	773
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-10ER46711 06/30/2013 Lewis	SC-22.22	Magnetostructural Materials	184
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-07ER46400 07/14/2013 Karma	SC-22.22	Bridging Atomistic and Continuum Scales in Phase-Field Modeling of Stressed Polycrystalline Materials with	227
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-07ER46352 12/14/2013 Bansil, Markiewicz	SC-22.22	Electronic Structure, Spectroscopy, and Correlation Effects in Novel Materials	255

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VALLEY LIFE SCIENCES INSTITUTE Springfield, MA	DE-FG02-10ER65070 09/14/2011 Friedmann	SC-23.2	Pioneer Valley Life Sciences Institute Translational Biomedical Research	388
NIAN ASTROPHYSICAL OBSERVATORY Cambridge, MA	DE-FG02-09ER41619 07/31/2013 Benbow	SC-25	Expanding the Discovery Potential of Veritas Via Moonlight Observations	70
NIAN ASTROPHYSICAL OBSERVATORY Cambridge, MA	DE-FG02-91ER40635 04/30/2013 Benbow	SC-25	The Application of Two Dimensional Imaging to Very High Energy Gamma Ray Astronomy	720
TOKUTEK, INC. Lexington, MA	DE-FG02-08ER25853 08/31/2011 Farach-Colton	SC-21.1	Efficient Databases for HPC Clusters	572
TUFTS UNIVERSITY Medford, MA	DE-FG02-09ER55039 08/14/2012 Hopwood	SC-24.2	Instabilities in Nonthermal Atmospheric Pressure Plasma	217
TUFTS UNIVERSITY Medford, MA	DE-FG02-10ER55070 04/14/2015 Chiesa	SC-24.2	RECOVERY ACT - Superconducting Technology for Magnet Systems in Fusion Machines	715
TUFTS UNIVERSITY Medford, MA	DE-FG02-92ER40702 01/14/2012 Mann, Schneps	SC-25	High Energy Physics at Tufts University	1,003
TUFTS UNIVERSITY Medford, MA	DE-FG02-07ER15900 01/31/2013 Garven	SC-22.12	Fault-Related CO2 Degassing, Geothermics, and Fluid Flow in Southern California Basins: Physiochemical Evidence and Modeling	113
TUFTS UNIVERSITY Medford, MA	DE-FG02-05ER15730 09/14/2014 Flytzani-Stephanopou	SC-22.12	Metal ion sites on oxide supports as catalysts for the water-gas shift and methanol steam reforming reactions	584
TUFTS UNIVERSITY Medford, MA	DE-FG02-06ER15799 06/30/2012 Rybak-Akimova	SC-22.12	Mechanism-Based Design of Biomimetic Green Oxidation Catalysts	155
TUFTS UNIVERSITY Medford, MA	DE-FG02-10ER16170 06/30/2014 Sykes	SC-22.11	A Single-Molecule Approach for Understanding and Utilizing Surface and Subsurface Absorption to Control Chemical	220
TUFTS UNIVERSITY Medford, MA	DE-FG02-09ER64780 07/31/2012 Pennell	SC-23.1	Design and Application of Microbial Uranium Reduction Monitoring Tools (MURMoT)	21
WGBH EDUCATIONAL FOUNDATION Boston, MA	DE-FG02-10ER46704 12/31/2011 Apsell	SC-22.23	"Stuff" - The Materials that Shape Our World-Experiential Learning Opportunities	407
ORCESTER POLYTECHNIC INSTITUTE Worcester, MA	DE-FG02-10ER26032 08/31/2013 Walker	SC-21.1	Anderson Acceleration for Fixed-point Iterations	254
Total for MA :				100,875

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ACADIA OPTRONICS, LLC Rockville, MD	DE-FG02-10ER25952 12/14/2012 Wen	SC-21.1	RECOVERY ACT - End-System Network Interface Controller for 100 Gb/s Wide Area Networks	1,499
.S. DEPT. OF - AGR RES SERVICE Beltsville, MD	DE-AI02-10ER30328 06/14/2011 Shafer	SC-27	What's in Your Tool Box? Best Practices in R&D Prioritization, Management, and Evaluation: A Science of Science Policy Workshop, Oct 28-29, 2009	5
RICAN SOC FOR EXPERIMENTAL BIO Bethesda, MD	DE-FG02-10ER16181 07/31/2011 Hake	SC-22.13	FASEB Summer Conferences: Mechanisms in Plant Development, August 15-19, 2010	10
AL EPIDEMIOLOGY INSTITUTE, LTD Rockville, MD	DE-FG02-10ER64954 01/15/2012 Boice	SC-23.2	Epidemiologic Study of One Million American Workers and Military Veterans Exposed to Ionizing Radiation	399
J. CRAIG VENTER INSTITUTE Rockville, MD	DE-FC02-02ER63453 08/31/2011 Venter	SC-23.2	Reconstruction of a Bacterial Genome from DNA Cassettes	5,000
J. CRAIG VENTER INSTITUTE Rockville, MD	DE-FG02-10ER65052 08/14/2012 Garfinkel	SC-23.2	Managing Risks of Synthetic Biology: Assessing the U.S. Regulatory Systems	597
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER25888 08/31/2012 Knio	SC-21.1	Quantifying Prediction Fidelity in Multiscale Multiphysics Simulations	75
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER16094 09/14/2012 Roth	SC-22.12	SISGR - Isotopic Studies of O-O Bond Formation During Water Oxidation	165
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-05ER15727 07/14/2012 Erlebacher	SC-22.12	Engineering Catalytic Nanoporous Metals for Reactions Important to the Hydrogen Economy	120
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-96ER14662 11/14/2011 Meyer	SC-22.13	Electron Transfer Dynamics in Efficient Molecular Solar Cells	188
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-96ER14616 12/31/2011 Sverjensky	SC-22.12	Predictive Single-Site Protonation and Cation Adsorption Modeling	124
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-91ER14189 12/14/2014 Yarkony	SC-22.11	Theoretical Studies of the Reactions, and the Spectroscopy of Radical Species Relevant to Combustion Reactions and Diagnostics	150
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-89ER14074 12/31/2011 Veblen	SC-22.12	Crystal Chemistry of Toxic Metal Sequestration	0
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER46648 09/14/2012 Hufnagel	SC-22.21	SISGR - In Situ Characterization and Modeling of Formation Reactions Under Extreme Heating Rates in Nanostructured Mutilayer Foils	500
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-10ER46752 08/31/2013 Tovar	SC-22.23	Self-Assembly of PI-Conjugated Peptides In Aqueous Environments Leading To Energy-Transporting Bioelectrical	190

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-86ER53214 12/31/2012 Finkenthal	SC-24.2	Development of Advanced XUV Diagnostics Systems, Components and Devices for Fast Electron Temperature and Particle Density Measurements in Core, Pedestal .....	618
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER55012 02/29/2012 Stutman	SC-24.2	Soft X-Ray Measurements of Transport and MHD Activity in the Core and Edge NSTX Plasma	405
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-03ER46056 01/31/2013 Ma	SC-22.22	Amorphous Structures and Polymorphs of the Phase-Change Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> Chagolgenide Glass	150
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-07ER46437 08/14/2014 Hemker	SC-22.22	In Situ Characterization of Stress-Coupled Grain Boundary Migration	136
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-07ER46465 05/14/2013 Katz	SC-22.23	Charging and Polarization of Organic Semiconductors in Energy-Efficient Circuits and Energy Capture Models: Synthesis, Electronics, and Spectroscopy	274
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-08ER46544 08/31/2014 Broholm	SC-22.21	Institute for Quantum Matter at Johns Hopkins University	1,483
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER46558 01/31/2012 Bowen	SC-22.21	Measuring Complementary Electronics Structure Properties of Both Deposited and Gas Phase Clusters by using STM, UPS, and PES	167
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-08ER64643 02/29/2012 Guikema	SC-23.1	Collaborative Proposal: Climate-Induced Changes in Hurricane Winds, Surge, and Risk to Electric Power Systems	49
LEGIN GROUP, INC. Germantown, MD	DE-AC02-06ER12270 09/29/2011 Clark	SC-29	Administrative and Professional Support Services for the SBIR and STTR Programs	684
LIFE SCIENCES RES. FOUNDATION Baltimore, MD	DE-FG02-08ER15978 08/31/2011 Brown	SC-22.13	Developing Research Capabilities in Energy Biosciences	57
MARYLAND, UNIV OF BIOTECH INST Baltimore, MD	DE-FG02-07ER64502 09/14/2012 Orban	SC-23.2	Annotation of Novel Enzymatic Functions in Methanogens	0
MARYLAND, UNIV. OF/BALT. CO. Baltimore, MD	DE-FG02-10ER26034 08/31/2013 Draganescu	SC-21.1	Multilevel Techniques for Large-Scale Inverse Problems	131
MARYLAND, UNIVERSITY OF Baltimore, MD	DE-FG02-08ER64569 06/14/2012 Varnai	SC-23.1	Parameterization and Analysis of 3-D Solar Radiative Transfer in Clouds	53
MARYLAND, UNIVERSITY OF College Park, MD	DE-FC02-10ER25991 08/31/2013 Jacob	SC-21.1	Data Movement Dominates: Addressing the Real Exascale Power Problems	197
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER25894 08/14/2012 Tits	SC-21.1	Advanced Optimization Techniques for Entropy-Based Moment Closures	256

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MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER25942 09/14/2012 O'Leary	SC-21.1	Interior-Point Algorithms for Optimization Problems with Many Constraints	101
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER25947 09/14/2012 Hollingsworth	SC-21.1	Tools for the Development of High-Performance Energy Applications and Systems	193
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER25932 09/14/2012 Hollingsworth	SC-21.1	Correctness Tools for Petascale Computing	107
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER25936 09/14/2012 Hollingsworth	SC-21.1	Building a Community Infrastructure for Scalable On-Line Performance Analysis Tools Around Open Speedshop	75
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER25925 09/14/2012 Hollingsworth	SC-21.1	Foundational Tools for Petascale Computing	149
MARYLAND, UNIVERSITY OF College Park, MD	DE-FC02-07ER25812 02/28/2012 Sussman	SC-21.1	Center for Technology for Advanced Scientific Component Software (TASCS)	62
MARYLAND, UNIVERSITY OF College Park, MD	DE-FC02-06ER25763 12/14/2011 Hollingsworth	SC-21.1	Performance Engineering Research Center (PERC-3)	390
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-04ER25619 06/30/2012 Elman	SC-21.1	Navier-Stokes Solvers and Generalizations for Reacting Flow Problems	243
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-97ER41039 06/14/2012 Milchberg	SC-25	Application of Plasma Waveguides to Advanced High Energy Accelerators	562
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-97ER41015 10/31/2012 Hadley, Skuja	SC-25	High Energy Accelerator and Colliding Beam User Group	1,746
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-93ER40762 11/30/2013 Cohen	SC-26.1	Theoretical Studies in Hadronic and Nuclear Physics	760
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-94ER40855 06/30/2013 Kishek, Haber, O'Shea	SC-25	Accelerator Research Studies	982
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-94ER40834 01/31/2012 Walters	SC-26.1	Nuclear Structure Research	200
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-93ER40802 04/30/2012 Mignerey	SC-26.1	Reaction Mechanism Studies of Heavy-Ion Induced Nuclear Reactions	290
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-98ER14888 10/31/2011 Davis	SC-22.12	Self-Assembled Ionophores: Continuing in New Directions	140

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MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER16086 09/14/2012 Sita	SC-22.12	SISGR: Catalysts for Energy-Efficient Dinitrogen Activation and N-Atom Transfer Processes	200
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER16035 07/31/2014 Rubloff	SC-22.22	Science of Precision Multifunctional Nanostructures for Electrical Energy Storage -- EFRC	1,910
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER16100 09/14/2012 Alexander	SC-22.11	SISGR: Investigation of Non-Adiabatic Effects in Reactive and Inelastic Collisions of Molecular Combustion Intermediates	152
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-06ER15761 11/14/2013 Mullin	SC-22.11	Dynamics of Activated Molecules	293
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER15883 08/31/2014 Sze	SC-22.13	Endomembrane cation transporters and membrane trafficking	0
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER15916 08/31/2012 Zhu	SC-22.12	Collaborative Research: Evolution of Pore Structure and Permeability of Rocks Under Hydrothermal Conditions	105
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-08ER64548 04/30/2012 Nigam	SC-23.1	Atmosphere-Land-Surface Interaction Over the Southern Great Plains: Diagnosis of Mechanisms from SGP ARM Data	175
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER64437 07/14/2012 Kalnay	SC-23.1	Carbon Data Assimilation with a Coupled Ensemble Kalman Filter	195
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER55077 07/14/2013 Oehrlein	SC-24.2	Fundamental Science of Low Temperature Plasma-Biological Material Interactions	110
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER55079 06/30/2012 Dorland	SC-24.2	Gyrokinetic Modeling of Stability, Turbulence and Transport	750
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER54944 07/31/2011 Antonsen	SC-24.2	Interaction of Radiation and Charged Particles in Miniature Plasma Structures	0
MARYLAND, UNIVERSITY OF College Park, MD	DE-FC02-08ER54964 02/14/2016 Dorland	SC-24.2	Center for the Study of Plasma Microturbulence	95
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER46741 08/14/2013 Drew	SC-22.22	Infrared Hall Effect in Correlated Electronic Materials	145
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER46742 03/31/2014 Cumings	SC-22.21	Interfacial Thermal Resistance of Carbon Nanotubes	138
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER46753 08/14/2013 Wuttig	SC-22.22	Diblock Copolymer Templated Two-Phase Inorganic Nano-Composites A Platform for Innovative Nano-Science	254

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MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-92ER54178 05/31/2012 Kishek, O'Shea	SC-24.2	Physics of Beams at Extreme Intensity for Heavy Ion Inertial Fusion	228
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-95ER54325 07/14/2014 Nusinovich, Granatstein	SC-24.2	Theory and Modeling of High-Power Gyrotrons	140
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-93ER54197 12/31/2013 Dorland	SC-24.2	Maryland Controlled Fusion Research	597
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER46688 04/14/2015 Kim	SC-22.21	RECOVERY ACT - Generation, Imaging, and Control of Ultrafast Electrical Currents and Radiation	600
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-00ER54605 11/30/2011 Ellis	SC-24.2	The Maryland Centrifugal Experiment (MCX): Centrifugally Confined Plasmas for Magnetic Fusion	472
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-99ER54516 01/31/2013 Hassam	SC-24.2	Theoretical Considerations for Centrifugally Confined Plasmas	85
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER46607 08/31/2012 Galitskiy	SC-22.22	Theory of Fluctuations in Superconductors	103
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-10ER41710 09/30/2014 Orozco	SC-26.2	Laser Trapping and Cooling Facility for Weak Interaction Experiments with Francium Isotopes at TRIUMF	600
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-09ER41637 08/14/2013 Anlage	SC-25	RECOVERY ACT: Investigation of Microscopic Materials Limitations of Superconducting RF Cavities	583
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER41489 07/31/2013 Nusinovich	SC-25	High Gradient Accelerating Structures	196
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-08ER64571 07/14/2012 Li	SC-23.1	Use of ARM Mobile Facility (AMF) Data to Study Aerosol Indirect Effects in China	135
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-08ER64606 07/31/2012 Fox-Rabinovitz	SC-23.1	Development of Ensemble Neural Network Convection Parameterizations for Climate Models Using ARM Data	182
NATIONAL AERONAUT & SPACE ADM Greenbelt, MD	DE-AI02-09ER64753 05/14/2012 Tao	SC-23.1	Use of ARM Observations and Numerical Models to Determine Radiative and Latent Heating Profiles of Mesoscale Convective	127
NATIONAL AERONAUT & SPACE ADM Greenbelt, MD	DE-AI02-08ER64562 06/14/2012 Marshak, Wiscombe	SC-23.1	Use of the ARM Measurements of Spectral Zenith Radiance for Better Understanding of 3D Cloud-Radiation Processes & Aerosol-Cloud Interaction	31
TE OF STANDARDS AND TECHNOLOGY Gaithersburg, MD	DE-AI02-10ER46735 07/14/2013 Gentile	SC-22.21	Polarized 3He in Neutron Scattering	111

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TE OF STANDARDS AND TECHNOLOGY Gaithersburg, MD	DE-AI02-95ER54293 11/14/2011 Reader, Wiese	SC-24.2	Determination of Atomic Data Pertinent to the Fusion Energy Science Program	452
TE OF STANDARDS AND TECHNOLOGY Gaithersburg, MD	DE-AI02-94ER40828 03/31/2012 Gilliam	SC-26.1	Nuclear Data Verification and Standardization	80
NATIONAL INSTITUTES OF HEALTH Bethesda, MD	DE-AI02-08ER64706 08/31/2013 Rosenthal	SC-23.2	Partial Support of 2 NIH Projects (International Cooperative Biodiversity Groups)	250
NATIONAL OCEAN & ATMOS ADMIN Silver Spring, MD	DE-AI02-10ER64949 04/30/2012 Mooney	SC-23.1	Support FY2011 Activities of the Carbon Cycle Interagency Group (CCIWG)	85
NATIONAL OCEAN & ATMOS ADMIN Silver Spring, MD	DE-AI02-99ER62778 04/30/2012 Williamson	SC-23.1	Partial Support for the Federal Committee for Meteorological Services and Supporting Research	20
NAVAL ACADEMY, U. S. Annapolis, MD	DE-AI02-09ER46667 09/14/2012 Trulove	SC-22.23	SISGR: Linking Ion Solvation and Lithium Battery Electrolyte Properties	112
ROBERTSINTERNATIONAL, LLC Darnestown, MD	DE-AC02-08ER54994 10/22/2011 Roberts	SC-24.2	Consulting Agreement for Administrative, Management and Policy Support to OFES on ITER	22
Total for MD :				29,415

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
LABORATORY FOR OCEAN SCIENCES W. Boothbay Harbor, ME	DE-FG02-10ER65023 07/14/2011 Stepanauskas	SC-23.2	Workshop: Redefining Microbial Genomics: the Power of Sequencing Individual Cells	15
MAINE, UNIVERSITY OF Orono, ME	DE-FG02-00ER63001 09/14/2011 Dail	SC-23.1	Economically Viable Harvesting Practices That Increase Carbon Sequestration	0
MAINE, UNIVERSITY OF Orono, ME	DE-FG02-07ER46373 06/30/2014 Pendse	SC-22.21	Thermochemical Conversion of Woody Biomass to Fuels and Chemicals	0
Total for ME :				15

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CENTRAL MICHIGAN UNIVERSITY Mount Pleasant, MI	DE-FG02-10ER16203 10/31/2013 Peralta	SC-22.11	Spin-Forbidden Chemical Reactions in Catalysis from First-Principles	63
CENTRAL MICHIGAN UNIVERSITY Mount Pleasant, MI	DE-FC02-09ER41584 11/30/2011 Horoi	SC-26.1	Building a Universal Nuclear Energy Density Functional	90
DETROIT MERCY, UNIVERSITY OF Detroit, MI	DE-FG02-09CH11564 03/31/2011 Hanifin	SC-23	Chemistry Building Renovation, University of Detroit Mercy	0
EASTERN MICHIGAN UNIVERSITY Ypsilanti, MI	DE-FG02-10CH20002 04/30/2013 Shen	SC-23	Building Surface Science Capacity to Serve the Automobile Industry in Southeastern Michigan	486
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER64761 06/14/2012 Reguera	SC-23.1	From Nanowires to Biofilms: An Exploration of Novel Mechanisms of Uranium Transformation Mediated by Geobacter Bacteria	65
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER64631 08/14/2012 Buell	SC-23.2	Computational Resources for Biofuel Feedstock Species	100
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER16108 09/14/2012 Dantus	SC-22.11	SISGR - Understanding and Controlling Strong-Field Laser Interactions with Polyatomic Molecules	190
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER15822 08/31/2012 Geiger	SC-22.13	Structure, Function, and Regulation of the Enzymes in the Starch Biosynthetic Pathway	160
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER15808 07/31/2012 Osteryoung	SC-22.13	Mechanisms of Chloroplast Division in Plants	175
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER15854 02/29/2012 Mantica	SC-22.12	Support for the American Chemical Society's Summer Schools in Nuclear and Radiochemistry	246
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER15929 03/14/2013 Kirkpatrick	SC-22.12	Computational and Experimental Investigations of the Molecular Scale Structure and Dynamics of Geologically Important Fluids and Mineral-Fluid	185
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-01ER15228 05/31/2013 Piecuch	SC-22.11	New Single-and Multi-Reference Coupled-Cluster Methods for High Accuracy Calculations of Ground and Excited States	230
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-01ER15282 08/14/2012 McCusker	SC-22.13	First-Row Transition Metal-Based Chromophores for Dye-Sensitized Solar Cells: Fundamental Issues and Applications	180
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-98ER14907 07/31/2013 Bruening	SC-22.12	Separations of Stable Isotopic Ions in Homogenous, Highly Charged Nanopores	196
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-03ER41259 05/31/2012 Pratt	SC-26.1	Determining Properties of Matter Created at RHIC	97

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MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-98ER41070 10/31/2013 Westfall	SC-26.1	Study of the QCD Phase Diagram using STAR at RHIC	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-98ER20305 07/31/2013 Benning	SC-22.13	Regulation of Thylakoid Lipid Biosynthesis in Plants	380
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-91ER20021 12/31/2011 Thomashow	SC-22.13	Interdisciplinary Research and Related Training Program in the Plant Sciences	4,000
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER64389 05/31/2012 Tiedje	SC-23.2	Integrated Genome-Based Studies of <i>Shewanella</i> Ecophysiology	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER64398 03/14/2012 Tiedje	SC-23.1	Metagenomics-Enabled Understanding of the Functions and Activities of Microbial Communities at ERSF Field Research Center	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-99ER62848 08/31/2016 Cole	SC-23.2	The Ribosomal Database Project: Tools and Sequences for Microbial Analysis	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-10ER41709 08/31/2013 Tsang	SC-26.2	Determination of the Equation of State of Asymmetric Nuclear Matter	800
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-10ER41679 05/31/2015 Maciel-Nunes	SC-26.1	Advancing the Theory of Nuclear Reactions with Rare Isotopes: From the Laboratory to the Cosmos	96
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER41553 10/30/2011 York	SC-26.2	Development and Beam Characterization of a Coaxial Resonator Based Single-Gap Gridless Triple-Harmonic Buncher	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER41556 06/30/2013 Gade	SC-26.1	Study of Correlation Effects in Nuclei at the Limit of Stability	51
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER41546 03/14/2014 Berz	SC-25	Advanced Map Methods for the Description of Particle Beam Dynamics	381
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER41638 06/14/2013 Bieler	SC-25	RECOVERY ACT: SRF-Foundations for Quantitative Microstructural Models to Track Evolution of the Metallurgical State During High Purity Nb Cavity Fabrication	600
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FC02-09ER41585 11/30/2011 Brown	SC-26.1	Building a Universal Nuclear Energy Density Functional	130
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FC02-09ER41597 04/30/2019 Glasmacher	SC-26.2	Facility for Rare Isotope Beams	12,000
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER46341 08/31/2012 Birge	SC-22.22	Novel Behavior of Ferromagnet/Superconductor Hybrid Systems	162

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MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER46309 07/31/2012 Ruan	SC-22.21	Dynamical Nanoscale Crystallography with Femtosecond Resolution	650
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER46578 07/31/2014 Morelli	SC-22.21	Revolutionary Materials for Solid State Energy Conversion: A DOE Energy Frontier Research Center -- EFRC	2,125
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER46637 09/14/2012 Boehlert	SC-22.22	SISGR - Characterization and Modeling of Deformation Induced Damage in Titanium Alloys	674
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-06ER46294 12/31/2012 Yap	SC-22.22	Hetero-Junctions of Boron Nitride and Carbon Nanotubes: Synthesis and Characterization	0
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-95ER62125 03/31/2012 Burton, Pregitzer	SC-23.1	Impacts of Interacting Elevated Atmospheric CO2 & O3 on the Structure & Functioning of a Northern Forest Ecosystem: Operating and Decommissioning	881
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FC02-06ER64158 11/30/2011 Burton	SC-23.1	Midwestern Regional Center of the National Institute for Climatic Change Research	1,690
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-09ER46674 09/14/2012 Wang	SC-22.22	SISGR - Domain Microstructures and Mechanisms for Large, Reversible and An hysteretic Strain Behaviors in Phase Transforming Ferroelectric Materials	126
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-99ER41107 04/14/2014 Nitz	SC-25	Studies of High Energy Particle Astrophysics	337
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-04ER41331 07/14/2014 Chupp	SC-26.1	Electric Dipole Moment Measurements with Rare Isotopes: The Radon-EDM Experiment	109
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-95ER40899 10/31/2011 Amidei	SC-25	Properties and Interactions of Elementary Particles	3,889
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FC02-06ER25766 12/14/2010 Honeyman	SC-21.1	Petascale of Data Storage Institute	300
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER25979 04/14/2015 Jablonowski	SC-21.1	RECOVERY ACT - Introducing Enabling Computational Tools to the Climate Sciences: Multi-Resolution Climate	777
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-08ER15931 06/14/2014 Ragsdale	SC-22.13	Enzymology of Methanogenesis: Mechanism of Methyl-Coenzyme M Reductase	204
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER15904 06/30/2014 Ogilvie	SC-22.13	Two Dimensional Electronic Spectroscopies for Probing Electronic Structure and Charge Transfer: Applications to	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER15887 07/31/2012 Nielsen	SC-22.13	The Role of Phosphoinositides in Polarized Secretion of Cell Wall Components in Arabidopsis Root Hair Cells	175

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MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-06ER15783 06/30/2012 Ewing	SC-22.12	Actinide Incorporation and Radiation Effects in Layered Structures	100
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-05ER15686 08/31/2014 Linic	SC-22.12	Development of Physically Transparent, Predictive Structure-Performance Relationships for Rational Design of Multi-Component Catalytic Materials	150
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER16102 09/14/2012 Wooldridge	SC-22.11	SISGR: The Effects of Oxygenated Fuel Compound Structure on Combustion and Pollutant Reaction Chemistry	151
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER16112 09/14/2012 Violi	SC-22.11	SISGR - Developing a Predictive Model for the Chemical Composition of Soot Nanoparticles: Integrating Model and Experiment	198
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER16174 10/31/2013 Dunietz	SC-22.11	Modeling Molecular Electron Transport for Thermal and Photo Energy Conversion	203
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-08ER15997 08/14/2014 Sanford	SC-22.12	Catalytic Control of Site Selectivity in Catalytic C H Arylation and Alkylation Reactions	130
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER46683 04/14/2015 Daly	SC-22.22	RECOVERY ACT - Deformation and Failure Mechanisms of Shape Memory Alloys	600
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER46757 09/14/2014 Hart	SC-22.23	Understanding and Controlling Nanoscale Crystal Growth using Mechanical Forces	149
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER46761 08/31/2013 Matzger	SC-22.23	Symmetry Breaking for the Synthesis of Nanostructured Porous Materials	255
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER46762 04/14/2014 Sangi Reddy	SC-22.21	Study of Energy Transport at the Nanoscale	136
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER64446 07/31/2011 Rood	SC-23.1	Subgrid-Scale Mixing in Climate Models: A Novel Look at Diffusion, Accuracy, Stability and Climate Sensitivity	251
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-97ER62370 12/14/2011 Penner	SC-23.1	Cloud/Aerosol Parameterizations: Application and Improvement of General Circulation Models	160
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-01ER63248 09/14/2012 Penner	SC-23.1	Development of an Atmospheric Climate Model with Self-Adapting Grid and Physics	278
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-93ER61666 08/14/2012 Zak	SC-23.1	Ecosystem Response to Elevated Tropospheric Carbon Dioxide (CO2) and Ozone (O3) is Regulated by Plant-Microbe Interactions in Soil	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FC02-09ER55050 08/14/2014 Kushner	SC-24.2	Predictive Control of Plasma Kinetics: Multi-Phase and Bounded Systems	1,908

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MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER55060 08/14/2012 Kushner	SC-24.2	Plasmas in Multiphase Media: Bubble Enhanced Discharge in Liquids and Plasma/Liquid Phase Boundaries	145
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER55047 08/14/2012 Lau	SC-24.2	Theoretical and Experimental Studies of the Magneto-Rayleigh-Taylor Instabilities	145
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-06ER46273 04/30/2012 Clarke	SC-22.21	Structure and Dynamics at Interfaces	166
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-06ER46339 05/14/2013 Goldman	SC-22.21	Electronic States and Transport in Semiconductor Nanostructures	155
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER46412 08/14/2014 Green	SC-22.23	Brush-Coated Nanoparticle Polymer Thin Films: structure-mechanical-optical properties	230
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER46416 06/30/2013 Pan	SC-22.21	Structure and Dynamics of Domains in Ferroelectric Nanostructures	175
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-08ER46525 08/31/2014 Was	SC-22.22	Localized Deformation and Intergranular Fracture of Irradiated Alloys Under Extreme Environmental Conditions	303
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER41615 08/31/2011 Campbell	SC-25	Proposal to Participate in J-Parc KL Experiment	550
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-97ER45656 04/30/2014 Ewing	SC-22.22	Response of Simple, Model Systems to Extreme Conditions	200
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-04ER46172 12/31/2011 Mirecki-Millunchick	SC-22.22	Atomic Surface Structure of Compound Semiconductor Nanowires	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-02ER46000 11/30/2011 Glotzer	SC-22.23	Simulation of Self-Assembly of Tethered Nanoparticle Shape Amphiphiles	302
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER64803 07/31/2012 Hayes	SC-23.1	Assessing the Role of Iron Sulfides in the Long Term Sequestration of U by Sulfate Reducing Bacteria	297
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER64994 06/30/2013 Zak	SC-23.2	Atmospheric Nitrogen Deposition and Microbial Mechanisms Enhancing Soil Carbon Storage	449
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-04ER15593 10/31/2013 Suits	SC-22.11	Universal and State-Resolved Imaging Studies of Chemical Dynamics	160
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-09ER16120 09/14/2012 Verani	SC-22.13	SISGR: A Concerted Synthetic, Spectroscopic, and Computational Approach Towards Water Splitting by Heterometallic Complexes in Solution and on Surfaces	440

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-92ER40713 04/30/2014 Cormier	SC-26.1	Relativistic Heavy Ion Research	1,263
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-96ER41005 02/29/2012 Karchin	SC-25	Particle Physics Research Program	478
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-99ER45772 12/31/2011 Burns	SC-22.21	X-ray and Transport Studies of Highly Correlated Systems	100
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-92ER14299 06/14/2014 Berrah	SC-22.11	Probing Complexity Using the LCLS and the ALS	260
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-04ER41320 05/14/2013 Wuosmaa	SC-26.1	Study of Exotic Nuclei With Nucleon Transfer Reactions	360
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-10ER64974 12/31/2012 Patten	SC-23.2	Green Manufacturing: Environmentally Benign and Energy Conscious Program at Western Michigan University	972
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-10ER65069 08/31/2012 Koretsky	SC-23.1	Development of Surface Complexation Models of Cr(VI) Adsorption on Soils, Sediments and Model Mixtures of Kaolinite,	149
Total for MI :				44,968

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MINNESOTA, UNIVERSITY OF Duluth, MN	DE-FG02-98ER41087 05/31/2013 Hiller	SC-25	Nonperturbative Analysis of Field Theories Quantized on the Light Cone	61
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-94ER40823 10/31/2013 Rusack, Olive	SC-25	Experimental and Theoretical High Energy Physics	1,802
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-87ER40328 01/31/2014 Kapusta, Qian, Heger	SC-26.1	Research in Theoretical Nuclear Physics	430
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FC02-10ER26020 08/31/2013 Karypis	SC-21.1	Enabling Scientific Discovery in Exascale Simulations	149
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-09ER25880 08/31/2012 Luskin	SC-21.1	Predictive Simulation and Design of Materials by Quasicontinuum and Accelerated Dynamics Methods	0
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-08ER25841 06/14/2012 Saad	SC-21.1	Robust Parallel Iterative Solvers for Linear and Least-Squares Systems	135
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-09ER16087 09/14/2012 Gagliardi	SC-22.12	Multiconfigurational Quantum Chemical Study of Molecules and Ions Containing Actinides and Lanthanides	200
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-05ER15670 08/31/2014 Glazebrook	SC-22.13	Effects of Plant Cell Wall Alterations on Plant Disease Susceptibility	144
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-07ER15886 07/31/2013 Ward	SC-22.13	Functional Analysis of Plant Sucrose Transporters	160
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-07ER15913 08/31/2014 Gladfelter	SC-22.13	Molecular Design of Zinc-Oxide Nanoparticle-Dye Dyads and Triads	265
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-88ER13878 12/31/2011 Schmidt	SC-22.12	Biofuels from Biomass by Catalytic Autothermal Reforming	155
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-86ER13579 11/30/2014 Truhlar	SC-22.11	Variational Transition State Theory	135
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-03ER15455 08/31/2014 Que	SC-22.12	Bio-inspired Iron Catalysts for Hydrocarbon Oxidations	165
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-04ER15500 11/30/2012 Kohlstedt	SC-22.12	Rheological Properties of Earth's Upper Mantle at High Pressure: Roles of Melt, Water, and Pressure	369
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-02ER46004 08/31/2014 Goldman	SC-22.22	Tunneling and Transport in Nanowires	140

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FC02-09ER41618 03/14/2012 Heger	SC-26.1	Computational Astrophysics Consortium: 3. Supernovae, Gamma-Ray Bursts, and Nucleosynthesis	130
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-08ER41572 08/14/2011 Rusack	SC-25	Advanced Fiber Optic Systems for HEP Experiments	0
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FC02-07ER41471 10/31/2011 Marshak	SC-25	Collaborative Research and Development in Neutrino Physics	-9,650
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-10ER41676 05/31/2015 Heger	SC-26.1	Neutrinos and Nucleosynthesis in Hot and Dense Matter	40
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-07ER46415 08/31/2013 Kumar	SC-22.23	Hydrodynamic Self-Assembly of Topographical Patterns on Soft Materials	80
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-06ER46275 03/14/2012 Leighton	SC-22.21	A Global Understanding of Magnetic Phase Separation in Doped Cobaltites	404
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-09ER55040 08/14/2012 Kortshagen	SC-24.2	Charging and Heating Dynamics of Nanoparticles in Nonthermal Plasmas	67
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-05ER63997 12/31/2011 McMurry	SC-23.1	Growth Rates of Freshly Nucleated Particles	250
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-07ER64456 07/31/2015 Reich	SC-23.1	Climate Change Impacts at the Temperate-Boreal Ecotone: Interactions Between Warming and Precipitation	687
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-09ER46640 09/14/2012 Zudov	SC-22.22	SISGR - Emergent Phenomena in Quantum Hall Systems Far From Equilibrium	130
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-10ER64943 04/14/2015 Schilling	SC-23.2	RECOVERY ACT - Consolidating Biomass Pretreatment with Saccharification by Resolving the Spatial Control Mechanisms	760
Total for MN :				-2,792

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CROWDER COLLEGE Neosho, MO	DE-FG02-05CH11289 06/30/2012 Shannon	SC-23	Missouri Alternative & Renewable Energy Technology (MARET) Center	0
DONALD DANFORTH PLNT SCI CTR St. Louis, MO	DE-FG02-09ER16029 07/31/2014 Sayre	SC-22.13	Center for Advanced Biofuels Systems -- EFRC	3,000
SITY OF SCIENCE AND TECHNOLOGY Rolla, MO	DE-FG02-08ER46518 08/31/2012 Switzer	SC-22.23	Epitaxial Electrodeposition of Metal Oxide Thin Films and Superlattices for Energy Conversion and Storage	175
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-02ER15309 05/31/2014 Stacey	SC-22.13	Plant Response to LCO/CO Signals	180
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-87ER13713 08/31/2012 Wall	SC-22.13	Genetics and Molecular Biology of Hydrogen Metabolism in the Sulfate-reducing Bacteria	170
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-88ER13880 07/14/2014 Sharp	SC-22.12	Late Transition Metal M-OR Chemistry and d6 Metal Complex Photoeliminations	150
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-08ER15958 12/31/2011 Appold	SC-22.12	Evaluation of the Origin and Hydrocarbon Transport Capabilities of Solitary Waves in Fault Conduits with Visco-Elastic Rheologies	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-10ER41644 09/30/2012 Jurisson	SC-26.2	Alternative Isotope Production Techniques for High Specific Activity Radionuclides	500
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-00ER45818 11/30/2012 Satpathy	SC-22.22	Fundamental Studies of Complex Oxides and Their Interfaces	130
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-05ER46203 05/31/2014 Vignale	SC-22.22	Time-Dependent Current Density-Functional Theory of Charge, Energy and Spin Transport and Dynamics in Nanoscale	105
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-05ER46213 12/31/2011 Ullrich	SC-22.22	Charge and Spin Dynamics in Bulk and Heterostructured Dilute Magnetic Semiconductors	105
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-07ER46411 08/14/2013 Pfeifer	SC-22.23	New Pathways and Metrics for Enhanced, Reversible Hydrogen Storage in Boron-Doped Carbon Nanospaces	320
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-07ER64396 03/31/2012 Wall	SC-23.1	Geochemical, Genetic, and Community Controls on Mercury Methylation	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-10ER65015 07/14/2011 Jurisson	SC-23.2	Radiochemistry Student, Postdoc and Invited Speaker Support for New Directions in Isotope Production, Nuclear Forensics	10
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-10ER65040 09/14/2013 Stacey	SC-23.2	Systems View of Root Hair Response to Abiotic Stress	312

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-09ER64825 08/31/2013 Jurisson	SC-23.2	Research Projects for Interrogations of Biological Systems: Training for the Development of Novel Radiotracers	527
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-08ER64691 09/14/2012 Wall	SC-23.2	Pathway of Fermentative Hydrogen Production by Sulfate-Reducing Bacteria	235
MISSOURI, UNIVERSITY OF Kansas City, MO	DE-FG02-84ER45170 10/31/2011 Ching	SC-22.21	Theoretical Studies on the Electronics Structures and Properties of Complex Ceramic Crystals and Novel Materials	0
CLEAR MEDICINE SOLUTIONS, INC. St. Louis, MO	DE-AD01-07NE24326 12/28/2011 Brown	SC-26.2	Purchase of Irradiated Strontium-82 Targets	444
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-87ER40316 12/31/2013 Sobotka	SC-26.1	Studies of Complex Nuclear Decay in Heavy-Ion Reactions	272
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-88ER40406 11/30/2011 Sarantites	SC-26.1	Investigations of Nuclear Structure and Nuclear Reactions	371
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-91ER40628 03/31/2014 Bender, Ogilvie, Bernard	SC-25	Studies in Quantum Field Theory and Astroparticle Physics	814
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-05ER41375 05/31/2014 Alford	SC-26.1	Signatures of Color Superconductivity in High-Density Quark Matter	120
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-99ER20350 08/31/2012 Pakrasi	SC-22.13	Novel Factors in the Thylakoid Lumen that Regulate Photoprotection and Repair of the Photosynthetic Apparatus in Cyanobacteria	175
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-07ER15902 08/31/2013 Blankenship	SC-22.13	The Fmo Antenna Complex From Green Photosynthetic Bacteria	191
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-05ER15661 05/14/2014 Holten, Kirmaier	SC-22.13	Fundamental Studies of Hydroporphyrin Architectures for Solar Energy Applications	145
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-09ER16116 09/14/2012 Holten	SC-22.13	SISGR: Controlling Electron Transfer Pathways in Photosynthetic Reaction Centers	194
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-09ER16045 07/31/2014 Blankenship	SC-22.13	Photosynthetic Antenna Research Center (PARC) -- EFRC	3,375
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-10ER41673 05/31/2015 Alford	SC-26.1	Collaborative Research: Neutrinos and Nucleosynthesis in Hot Dense Matter	30
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-10ER41708 08/31/2013 Sobotka	SC-26.2	Breakup of Loosely Bound Nuclei at Intermediate Energies for Nuclear Astrophysics & the Development of a	279

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-10ER41643 09/30/2011 Welch	SC-26.2	Improved Production and Separation Technologies for Non-Standard PET Radionuclides	420
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-05ER46256 08/31/2014 Conradi	SC-22.22	In Situ NMR to Understand Hydrogen Storage Chemistry	190
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-08ER64681 09/14/2011 Tai	SC-23.2	Detector Technologies for Sub-500UM High-Sensitivity PET Imaging Via a Novel PET Insert Approach	0
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-08ER64671 09/14/2011 Welch	SC-23.2	Novel Strategies for Ultrahigh Specific Activity Targeted Nanoparticles	0
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-08ER64694 09/14/2012 Pakrasi	SC-23.2	Development of Cyanothece as a New Model Organism for Biological Hydrogen Production	600
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-09ER64820 08/31/2013 Welch	SC-23.2	Integrated Research Training Program of Excellence in Radiochemistry	527
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-10ER65061 08/31/2013 Tai	SC-23.2	Development of Simultaneous Beta-and-Coincidence-Gamma Images for Plant Imaging Research	801
Total for MO :				14,867

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-07ER64459 08/31/2012 Peng	SC-23.2	Identification of Cell Wall Synthesis Regulatory Genes Controlling Biomass Characteristics and Yield in Rice (Oryza	0
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-06ER46315 08/31/2012 Clay	SC-22.22	Charge Frustration, Spin Singlets and Superconductivity in the 1/4-filled Band Paired-Electron Crystal	140
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-07ER41459 11/14/2012 Afanasjevs	SC-26.1	Nuclei at Extreme Conditions: A Relativistic Study	74
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-07ER41528 08/31/2013 Dutta	SC-26.1	Precision Measurements at Medium Energy	277
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-04ER15514 01/31/2012 Sygula	SC-22.12	Polynuclear Aromatic Hydrocarbons with Curved Surfaces: Buckybowls	135
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-95ER40939 04/30/2013 Ma	SC-26.1	Experimental Nuclear Structure Studies	168
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-96ER41006 06/30/2014 Winger	SC-26.1	Nuclear Structure Studies of Exotic Nuclei with Radioactive Ion Beams	77
MISSISSIPPI, UNIVERSITY OF University, MS	DE-FG02-91ER40622 04/30/2013 Cremaldi	SC-25	Experimental Study of Electroweak and Heavy Flavor Physics	532
Total for MS :				1,403

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 Listing of Active Awards for State (MT)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-08ER46527 08/31/2012 Cunningham	SC-22.21	Environmental Responses to Geologic CO2 Sequestrations	530
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-07ER46477 08/31/2014 Douglas	SC-22.23	Multicomponent Protein Cage Architectures for Photocatalysis	0
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-07ER64366 03/14/2012 Peyton	SC-23.1	Subsurface Uranium Fate & Transport: Integrated Experiments & Modeling of Coupled Biogeochemical Mechanisms of	0
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-10ER16194 09/14/2013 Broderick	SC-22.13	Role of HydF in Hydrogenase Maturation	185
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-04ER15563 05/31/2012 Peters	SC-22.13	Novel Microbial Based Enzymatic CO2 Fixation/Carboxylation Mechanisms	0
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-09ER64758 05/14/2012 Gerlach	SC-23.1	Microbial Activity and Precipitation at Solution-Solution Mixing Zones in Porous Media - Environmental Remediation Science Program	108
MONTANA, UNIVERSITY OF Missoula, MT	DE-FG02-03ER54699 03/31/2013 Ware	SC-24.2	High Beta Stellarator Studies and Cross Phase Dynamics in Turbulent Transport	65
Total for MT :				888

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
BUNCOMBE, COUNTY OF Asheville, NC	DE-FG02-10CH20024 09/16/2011 Creighton	SC-23	Buncombe County Wastewater Pre-Treatment and Landfill Gas to Energy Project	486
DAVIDSON COLLEGE Davidson, NC	DE-FG02-04ER25590 10/31/2010 Chartier	SC-21.1	Numerical Methods for Forward and Inverse Problems in Discontinuous Media	51
DUKE UNIVERSITY Durham, NC	DE-FG02-03ER41231 12/14/2013 Gao	SC-26.1	Medium Energy Physics at Duke University	448
DUKE UNIVERSITY Durham, NC	DE-FG02-97ER41033 02/29/2012 Howell	SC-26.1	Studies of Nuclear Structure Using Neutrons and Charged Particles	3,500
DUKE UNIVERSITY Durham, NC	DE-FG02-05ER41367 03/14/2014 Mueller	SC-26.1	Nuclear Physics at Extreme Energy Density	370
DUKE UNIVERSITY Durham, NC	DE-FG02-05ER41368 03/14/2014 Springer	SC-26.1	Lattice and Effective Field Theory Studies of Quantum Chromodynamics	365
DUKE UNIVERSITY Durham, NC	DE-FG02-91ER40665 11/30/2012 Kotwal	SC-25	Research in High Energy Physics at Duke University	1,330
DUKE UNIVERSITY Durham, NC	DE-FG02-09ER16074 08/31/2012 Therien	SC-22.13	Organic, Nanoscale, and Self-Assembled Structures Relevant to Solar Energy Conversion	155
DUKE UNIVERSITY Durham, NC	DE-FG02-09ER46602 08/14/2012 Thomas	SC-22.22	Simulating Strongly Correlated Electrons with a Strongly Interacting Fermi Gas	153
DUKE UNIVERSITY Durham, NC	DE-FG02-09ER46606 05/31/2012 Finkelstein	SC-22.22	Symmetries, Interactions and Correlation Effects in Carbon Nanotubes	150
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER41683 05/31/2013 Mueller	SC-26.1	Proposal for a Topical Collaboration on Quantitative Jet and Electromagnetic Tomography (JET) of Extreme Phases of Matter in Heavy-Ion Collisions	48
DUKE UNIVERSITY Durham, NC	DE-FC02-06ER64156 11/30/2011 Jackson	SC-23.1	Southeastern Regional Center of the National Institute for Climatic Change Research	1,689
DUKE UNIVERSITY Durham, NC	DE-FG02-06ER64273 07/14/2011 Corliss, Hegerl	SC-23.1	Reducing Uncertainties in Future Climate Projections by Quantifying Human Contributions to 20th Century Climate Change	0
DUKE UNIVERSITY Durham, NC	DE-FG02-95ER62083 07/31/2012 Oren, Schlesinger	SC-23.1	Duke Forest FACE - Forest-Atmosphere Carbon Transfer and Storage (FACTS-I)	1,068
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER46772 08/31/2013 Baranger	SC-22.22	Quantum Phases of Nanowires: Quantum Monte Carlo Approaches	145

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER64961 05/14/2013 Howell	SC-23.2	Radionuclide Imaging Technologies for Biological Systems	47
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER64945 05/31/2012 Hsu-Kim	SC-23.1	Occurrence and Stabilization of Colloidal and Nanoparticulate Mercury Sulfides	150
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER64931 01/31/2013 Jirtle	SC-23.2	Epigenomic Adaptation to Low Dose Radiation	333
ENVIRONMENTAL PROTECT AGENCY Research Triangle Pk, NC	DE-AI02-10ER65044 07/31/2013 Mathur	SC-23.1	Evaluation of the Interactions Among Tropospheric Aerosol Loading, Radiative Balance, Clouds, and Precipitation	298
NTY ECONOMIC DEVELOPMENT CORP. Williamston, NC	DE-FG02-10ER64977 07/31/2011 Rehbock	SC-23.2	Martin County Microfiber Hydrogen Fuel Cell Technology Development	972
NORTH CAROLINA CENTRAL UNIV. Durham, NC	DE-FG02-10ER41716 08/31/2013 Crowe	SC-26.1	A Proposal to Measure the Space Star Cross Section in Neutron - Deuteron Breakup in a Recoil Geometry Setup	106
NORTH CAROLINA CENTRAL UNIV. Durham, NC	DE-FG02-96ER54385 01/31/2012 Jones	SC-24.2	Precision Characterization of Gyrotron Window Materials	74
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-09ER46655 09/14/2012 Henderson	SC-22.23	SISGR: Linking Ion Solvation and Lithium Battery Electrolyte Properties	181
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-08ER64508 12/14/2011 Meskhidze	SC-23.1	Effect and Terrestrial and Marine Organic Aerosol on Regional and Global Climate: Model Development, Application, and	213
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-08ER64510 12/31/2011 Dunn	SC-23.1	Impacts of Elevated Temperature on Ant Species, Communities and Ecological Roles at Two Temperate Forests in Eastern North America	694
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-07ER64448 07/31/2012 Lackmann	SC-23.1	High-Resolution Modeling to Assess Tropical Cyclone Activity in Future Climate Regimes	49
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-10ER41677 05/31/2015 McLaughlin	SC-26.1	Collaborative Research: Neutrinos and Nucleosynthesis in Hot and Dense Matter	95
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-97ER45624 11/30/2011 Whitten	SC-22.23	Theoretical Studies of Surface Reactions on Metals and Electronic Materials	143
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-98ER45685 02/28/2013 Bernholc	SC-22.22	Theoretical Investigations of Nano Bio Structures	100
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-98ER45737 06/14/2013 Ade	SC-22.23	Fundamental Science of High Open Circuit Voltage Excitonic Solar Cells	250

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-96ER14632 05/14/2014 Lindsey	SC-22.13	Fundamental Studies of Hydroporphyrin Architectures for Solar Energy Applications	205
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-02ER15354 09/14/2014 Smirnov	SC-22.13	Nanotube-Supported Phospholipid Bilayers	150
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-07ER15914 08/31/2012 Maggard	SC-22.13	Molecular to Microstructural Designs in Heterometallic Solids for Visible-Light Photocatalysts	150
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-97ER41042 03/31/2012 Huffman	SC-26.1	Nuclear Structure Research at the Triangle Universities Nuclear Laboratory	691
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-02ER41216 07/14/2013 McLaughlin	SC-26.1	Supernovae and Black Hole Accretion Disks: Weak Interactions and Element Synthesis	135
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-03ER41260 07/14/2012 Schaefer	SC-26.1	Nuclear Theory at North Carolina State University	248
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-08ER25837 05/31/2011 Mueller	SC-21.1	Reliability, Availability and Serviceability (RAS) for Petascale High-End Computing and Beyond	50
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FC02-07ER25809 11/14/2011 Vouk	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	177
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FC02-10ER26002 08/31/2013 Samatova	SC-21.1	Damsel: a Data Model Storage Library for Exascale Science	100
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-08ER64687 09/14/2012 Kelly	SC-23.2	Biohydrogenogenesis in the Thermotogales	543
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-10ER41675 05/31/2015 Engel	SC-26.1	Collaboration: Neutrinos and Nucleosynthesis in Hot and Dense Matter	30
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FC02-09ER41589 11/30/2011 Engel	SC-26.1	Universal Nuclear Energy Density Functional	83
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-05ER46216 08/14/2012 Tsui	SC-22.22	Structure and Magnetism in Novel Group IV Element-Based Magnetic Materials	161
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-97ER41019 01/14/2012 Engel	SC-26.1	Nuclear Theory with Applications to Astrophysics and Particle Physics	110
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-97ER41041 03/31/2012 Wilkerson	SC-26.1	Studies of Nuclear Processes	1,094

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FC02-06ER41445 09/14/2011 Fowler	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	122
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-06ER41418 06/30/2012 Ng	SC-25	Theoretical Research in Cosmology, High-Energy Physics and String Theory at UNC-CH	173
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-10ER25974 03/14/2013 Minion	SC-21.1	Higher-Order, Space-Time Adaptive Finite Volume Methods: Algorithms, Analysis and Applications	166
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-10ER26016 08/31/2013 Baldine	SC-21.1	Orchestrating Distributed Resource Ensembles for Petascale Science	169
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FC02-06ER25764 12/14/2012 Fowler	SC-21.1	Performance Engineering Research Center (PERC-3)	882
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-09ER16099 09/14/2012 Miller	SC-22.12	SISGR - Multiscale Modeling of Multiphase Flow, Transport, and Reactions in Porous Medium Systems	200
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-06ER15788 05/14/2012 Meyer, Papanikolas	SC-22.13	Metal-to-Ligand Charge Transfer Excited States at Interfaces and in Rigid Media: Applications in Energy Conversion	190
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-05ER15671 06/14/2013 Jones	SC-22.13	Sugar Sensing in Arabidopsis via AtRGS1	165
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-97ER14776 10/31/2011 Baer	SC-22.11	Threshold Photoelectron Photoion Coincidence (TPEPICO) studies: The road to +/-0.1 kJ/mol Thermochemistry	155
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-10CH20000 06/30/2011 Poole	SC-23	Collaborative Initiative in Biomedical Imaging to Study Complex Diseases - FY 2009	924
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-05ER15630 02/29/2012 Gagne	SC-22.12	Oxidative Addition at Anomeric Centers in the Pursuit of Value-Added Fine Chemical Feedstocks From Cardboard and Potatoes	145
NORTH CAROLINA, UNIVERSITY OF Charlotte, NC	DE-FG02-05ER25678 08/31/2012 Cai	SC-21.1	Numerical Methods of Computational Electromagnetics for Complex Inhomogeneous Systems	209
YANCEY COUNTY Burnsville, NC	DE-FG02-08CH11534 08/30/2011 Lawhern	SC-23	Capital Investment to Fund Equipment Purchases and Facility Modifications to Create a Sustainable Future for the Energy	0
Total for NC :				21,090

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Listing of Active Awards for State (ND)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
NORTH DAKOTA STATE UNIVERSITY Fargo, ND	DE-FG02-96ER14645 05/14/2014 Hershberger	SC-22.11	Kinetics and Product Channel Studies in Combustion Chemistry	209
NORTH DAKOTA STATE UNIVERSITY Fargo, ND	DE-FG02-08ER15987 08/14/2011 Burghaus	SC-22.12	Characterization of Fundamental Catalytic Properties of WS <sub>2</sub> /MoS <sub>2</sub> Nanotubes and Nanoclusters for Desulphurization	120
NORTH DAKOTA STATE UNIVERSITY Fargo, ND	DE-FG02-09ER64919 09/28/2014 Boudjouk	SC-23.2	Advancing Science through Computation at NDSU	4,860
NORTH DAKOTA, UNIVERSITY OF Grand Forks, ND	DE-FG02-06ER46292 07/14/2012 Seames	SC-22.21	The North Dakota DOE EPSCoR IIP Phase 2: Performance Impacts of Impurities in Clean Coal Systems Equipped with Carbon Capture	50
Total for ND :				5,239

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Listing of Active Awards for State (NE)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CREIGHTON UNIVERSITY Omaha, NE	DE-FG02-96ER40991 06/30/2014 Cherney	SC-26.1	A Study of Ultra-Relativistic Heavy Ion Collisions	428
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-10ER64946 06/30/2012 Weber	SC-23.1	Viral Infection of Subsurface Microorganisms and Metal/Radionuclide Transport	150
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-05ER15663 02/14/2013 Umstadter	SC-22.11	Laser Produced Coherent X-Ray Sources	150
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-10ER16189 08/31/2014 Mackenzie	SC-22.13	MSH1: a novel inter-organellar environmental response mechanism in higher plants	149
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-10ER16137 04/14/2015 Centurion	SC-22.11	RECOVERY ACT - Ultrafast Electron Diffraction from Aligned Molecules	600
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-96ER14646 05/31/2014 Starace	SC-22.11	Dynamics of Few-Body Atomic Processes	130
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-00ER15044 04/30/2013 Spreitzer	SC-22.13	Role of the Rubisco Small Subunit	165
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-03ER63639 09/14/2012 Verma	SC-23.1	Carbon Sequestration in Dryland and Irrigated Agroecosystems: Quantification at Different Scales for Improved	99
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-08ER55000 07/31/2012 Shadwick	SC-24.2	Wavebreaking and Particle Trapping in Collisionless Plasmas	186
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-10ER46722 06/30/2013 Gruverman	SC-22.21	Nanoscale Studies of Pyroelectric and Thermoelectric Phenomena	570
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-10ER46767 07/31/2013 Gruverman	SC-22.21	Nanoscale Resistive Switching Behavior of Ferrelectric and Multiferroic Tunnel Junctions	250
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-04ER46152 06/18/2013 Sellmyer	SC-22.22	Fundamental Studies of High-Anisotropy Nanomagnets	115
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-08ER46498 06/14/2012 Ducharme	SC-22.21	Rational Design of Molecular Ferroelectric Materials and Nanostructures	15
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-09ER46621 08/14/2012 Shield	SC-22.21	Phase Transformations in Confined Nanosystems	15
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-09ER46622 08/14/2012 Ramamurthy	SC-22.21	Dynamic Optimized Advanced Scheduling of Bandwidth Demands for Large-Scale Science Applications	15

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-09ER46591 05/31/2013 Saraf	SC-22.23	Electronic Interfacing Between a Living Cell and a Nanodevice: A Bio-Nano Hybrid System	240
, UNIVERSITY OF MEDICAL CENTER Omaha, NE	DE-FG02-10ER65124 09/14/2012 Namavar	SC-23.2	Material Science Smart Coatings	486
Total for NE :				3,763

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Listing of Active Awards for State (NH)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-05ER15704 09/14/2012 Schaller	SC-22.13	Post-transcriptional regulation of ethylene perception and signaling in Arabidopsis	164
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-06ER15809 07/31/2012 Guerinot	SC-22.13	From the Soil to the Seed: Metal Transport in Arabidopsis	54
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-07ER54915 01/31/2012 Rogers	SC-24.2	Gyrokinetic Simulations of Turbulent Transport in Fusion Plasmas	0
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-07ER46392 06/30/2013 Baker	SC-22.22	Deformation of Spinodally-Formed Nanostructured Two-Phase B2/L21 Alloys	150
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-07ER46372 06/30/2013 Bhattacharjee	SC-22.21	Center for Integrated Computation and Analysis of Reconnection and Turbulence	750
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-06ER54894 07/31/2011 Chen	SC-24.2	Collaborative Research: Laboratory Investigation of Alfvén Field Line Resonances and Electron Acceleration	0
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-07ER54941 07/31/2012 Chen	SC-24.2	Collaborative Research: Dynamics of Electrostatic Solitary Waves and Their Effects on Current Layers	0
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-88ER40410 12/31/2011 Holtrop, Calarco, Hersman	SC-26.1	Electromagnetic Studies of Nucleon and Nuclear Structure	425
Total for NH :				1,543

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Listing of Active Awards for State (NJ)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ALCATEL-LUCENT USA Murray Hill, NJ	DE-FC02-10ER25997 08/31/2013 McKie	SC-21.1	A Fault-Oblivious Extreme-Scale Execution Environment	80
ALCATEL-LUCENT USA Murray Hill, NJ	DE-FG02-08ER25847 01/14/2012 McKie	SC-21.1	HARE - Holistic Aggregated Resource Environment for Million-CPU Systems	300
HRS FUSION, LLC West Orange, NJ	DE-FG02-09ER55030 08/14/2012 Strauss	SC-24.2	Hall MHD Stability and Turbulence in Magnetically Accelerated Plasmas	65
HRS FUSION, LLC West Orange, NJ	DE-FC02-09ER55009 02/14/2016 Strauss	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	75
INSTITUTE FOR ADVANCED STUDY Princeton, NJ	DE-FG02-90ER40542 11/30/2012 Seiberg, Arkani-Hamed, Adler	SC-25	Problems in Particle Theory	864
NEW JERSEY INSTITUTE OF TECH Newark, NJ	DE-FG02-07ER46402 07/14/2014 Tyson	SC-22.22	Exploring Electrical Polarization Mechanisms in Multiferroic Oxides	164
NEW JERSEY INSTITUTE OF TECH Newark, NJ	DE-FG02-09ER64834 08/31/2011 Prodan	SC-23.1	Adopting Biophysical Methods in Pursuit of Biogeophysical Research	41
NOVA PHOTONICS, INC. Princeton, NJ	DE-FG02-01ER54616 12/14/2012 Levinton	SC-24.2	Development of the Motional Stark Effect Diagnostic Using Laser-Induced Fluorescence (MSE-LIF)	360
NOVA PHOTONICS, INC. Princeton, NJ	DE-FG02-99ER54520 02/29/2012 Levinton	SC-24.2	The Motional Stark Effect Diagnostic for NSTX	423
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER54828 09/30/2011 Suckewer	SC-24.2	Attaining Ultra-High Laser Pulses by Raman Backscattering Amplification and Compression in Plasma	110
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER46773 08/31/2013 Car	SC-22.22	CMSN: Structure and Dynamics of Water and Aqueous Solution in Materials Science	420
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER64488 09/14/2011 Rabinowitz	SC-23.2	Quantitative Tools for Dissection of Hydrogen-Producing Metabolic Networks	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER64467 02/29/2012 Sarmiento	SC-23.1	Do Coupled Climate Models Correctly Simulate the Upward Branch of the Deep Ocean Global Conveyor	243
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-08ER55001 07/31/2012 Fleischer	SC-24.2	Kinetic Instabilities and Turbulence in Photonic Plasma	165
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER55010 03/31/2012 Fisch	SC-24.2	Alpha Channeling in Open-System Magnetic Devices	60

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER46419 07/31/2013 Yazdani	SC-22.22	Probing Correlated Superconductors and their Phase Transitions on the Nanometer Scale	700
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-06ER46344 03/14/2013 Selloni	SC-22.23	Conceptual Design by First-Principles Molecular Dynamics of a Nanostructured Bio-Inspired Catalyst/ Electrode System	225
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER41657 04/14/2015 Halyo	SC-25	RECOVERY ACT: Diamond Pixel Luminosity Telescopes	600
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER41659 04/14/2015 Marlow	SC-25	RECOVERY ACT: Exploring New Physics Beyond the Standard Model	600
PRINCETON UNIVERSITY Princeton, NJ	DE-FC02-08ER41544 09/14/2012 Burrows	SC-25	SciDAC: Computational Astrophysics Consortium: 3. Supernovae, Gamma-Ray Bursts, and Nucleosynthesis	239
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER41514 08/31/2011 Strauss	SC-25	Systematic Effects in Type-1a Supernovae	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER46200 01/31/2012 Hasan	SC-22.21	Synchrotron X-ray Based Electronic Structure Study of Correlated Quantum Materials	240
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER46201 04/30/2014 Car	SC-22.22	Fundamental Theory of Electronic Structure in the Nanoregime: Transport Through Single Molecules	105
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-04ER46165 04/30/2012 Kahn	SC-22.22	Understanding and Design of Polymer Devices Interfaces	342
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-04ER46108 12/31/2011 Torquato	SC-22.23	Optimizing Interaction Potentials to Form Targeted Material Structures	127
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-98ER45683 02/14/2013 Tsui	SC-22.22	Transport Experiments on 2D Correlated Electron Physics in Semiconductors	165
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-98ER45706 04/30/2013 Cava	SC-22.23	New Superconducting Materials	186
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-00ER45841 11/14/2012 Shayegan	SC-22.22	Magneto-Transport in GaAs Two-Dimensional Hole Systems	175
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-02ER15344 10/31/2011 Rabitz	SC-22.11	Control of Molecular Dynamics: Algorithms for Design, and Implementation	130
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER16057 08/31/2012 Panagiotopoulos	SC-22.11	Interactions, Phase Equilibria and Self-Assembly in Ionic Systems	172

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER16065 08/31/2012 Bocarsly	SC-22.13	Photoelectrochemical Conversion of Carbon Dioxide to Methanol and Higher Order Alcohols	210
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER16031 07/31/2014 Law	SC-22.13	Energy Frontier Research Center for Combustion Science -- EFRC	3,440
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER26024 08/31/2013 Kevrekidis	SC-21.1	Modeling and Simulation of High Dimensional Stochastic Multiscale PDE Systems at the Exascale	120
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-91ER40671 10/31/2011 Smith	SC-25	High Energy Physics Research	3,462
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER65101 09/14/2013 Myneni	SC-23.1	Role of Sulfhydryl Sites on Bacterial Cell Walls in the Biosorption, Mobility and Bioavailability of Mercury	280
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER65081 08/31/2013 Vallis	SC-23.1	The Mechanisms of Natural Variability and its Interaction With Anthropogenic Climate Change	346
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER64990 07/14/2013 Onstott	SC-23.2	The Impact of Global Warming on the Carbon Cycle of Arctic Permafrost: An Experimental and Field Based Study	639
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER64748 05/14/2012 Peters	SC-23.1	Effects of Pore Structure Change and Multi-Scale Heterogeneity on Contaminant Transport and Reaction Rate Upscaling	138
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER64813 08/31/2012 Rabinowitz	SC-23.2	Integration of Carbon, Nitrogen, and Oxygen Metabolism in Escherichia Coli	161
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-96ER40987 06/30/2014 Mekjian	SC-26.1	Studies of Nuclei Under the Extreme Conditions of Density, Temperature, Isospin Asymmetry and the Phase Diagram of Hadronic Matter	66
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-96ER40959 02/28/2013 Thomas	SC-25	Research in Theoretical High Energy Physics	622
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-01ER41165 02/28/2013 Neuberger	SC-25	Research in High Energy Physics - Theory	132
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER25977 04/30/2013 Silver	SC-21.1	SciDAC Institute for Ultra-Scale Visualization: Activity Recognition for Ultra-Scale Visualization	140
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-93ER14331 02/14/2014 Bartynski	SC-22.12	Nanoscale Surface Chemistry and Electrochemistry of Clean and Metal-Covered Faceted Substrates: Structure, Reactivity and Electronic	170
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-08ER15957 06/14/2011 Niederman	SC-22.13	Structural and Functional Proteomic Analysis of a Developing Energy Transducing Membrane	170

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-09ER16118 09/14/2012 Castner	SC-22.13	SISGR: Physical Chemistry of Reaction Dynamics in Ionic Liquids	650
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER16195 08/31/2013 Dismukes	SC-22.13	Maximizing Photosystem II Water Oxidizing Efficiency Through the Identification of Optimal Protein Coordination Environments	165
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FC02-06ER54857 01/14/2012 Parashar	SC-24.2	SciDAC - Center for Plasma Edge Simulation	150
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER46775 08/31/2013 Kotliar	SC-22.22	CMSN: Computational Design of Fe-based Superconductors	320
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER46765 05/14/2014 Batson	SC-22.21	Discovery of Dielectric Response and Forces in Sub-Nanoscale Objects	200
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER46763 08/31/2013 Podzorov	SC-22.23	Basic Surface Chemistry and Physics of Carbon-Based Electronic Materials Modified by Silane Molecular Layers	133
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-08ER64544 04/30/2012 Barkay	SC-23.1	Reduction of Mercury in Saturated Subsurface Sediments and its Potential to Mobilize Mercury in its Elemental Form	316
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-08ER64531 05/31/2012 Miller	SC-23.1	Site Science for the Atmospheric Radiation Measurement Mobile Facility #1	210
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-06ER46336 05/14/2013 Garofalini	SC-22.23	Atomistic Structure, Strength, and Kinetic Properties of Intergranular Films in Ceramics	142
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-07ER46382 05/31/2013 Cheong	SC-22.21	Magnetoelectric Hybrid Modes in Multiferroics: Neutron and Ellipsometry Studies	213
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER41663 04/14/2015 Shih	SC-25	RECOVERY ACT - Supersymmetry Breaking, Gauge Mediation and the LHC	600
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-99ER45761 08/14/2012 Kotliar, Abrahams	SC-22.22	Correlation Effects and Magnetism in Actinide: Elements and Compounds	125
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-10ER65120 09/14/2013 Broccoli	SC-23.1	Investigating the Relationship Between Daily Temperature Extremes and Patterns of Climate Variability in Observations and Future Climate Simulations	261
RUTGERS - STATE UNIV OF NJ Newark, NJ	DE-FG02-09ER64854 08/14/2012 Ntarlagiannis	SC-23.1	Quantifying Microbe-Mineral Interactions Leading to Remotely Detectable Induced Polarization Signals: Implications for	12
RUTGERS - STATE UNIV OF NJ Newark, NJ	DE-FG02-09ER64855 08/31/2011 Slater	SC-23.1	Adopting Biophysics Methods in Pursuit of Biogeophysical Research: Advancing the Measurement & Modeling of Electrical Signatures of Microbe-Mineral...	28

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
RUTGERS - STATE UNIV OF NJ Newark, NJ	DE-FG02-06ER15828 12/31/2011 Piotrowiak	SC-22.13	Femtosecond Fluorescence Microscopy of Nanoparticles in Solar Photoconversion	170
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-01ER15256 01/14/2012 Galoppini, Piotrowiak	SC-22.13	Model Dyes for Study of Molecule-Semiconductor Interfaces and Electron Transfer Processes	150
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-99ER45742 11/14/2012 Andrei	SC-22.22	Experimental Studies of Magnetic Correlation and Induced Superconductivity in Graphene Crystals	230
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-99ER45790 12/31/2011 Coleman	SC-22.22	Spin Driven Phenomena in Strongly Correlated Materials	125
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-10ER46778 08/31/2013 Blumberg	SC-22.22	Raman Spectroscopy of Iron Oxypnictide Superconductors	150

Total for NJ : 21,822

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
AIR FORCE RESEARCH LABORATORY Kirtland AFB, NM	DE-AI02-04ER54764 02/14/2012 Degnan	SC-24.2	Compressional Heating of a Simply Connected, Magnetically Confined Toroidal Plasma	1,702
CIENCE AND ENGINEERING SOCIETY Albuquerque, NM	DE-FG02-10ER30327 05/14/2013 George	SC-27	AISES: Intertribal Middle School Science Bowl (IMSSB)	148
EXCELLENCE FOR HAZ MTRLS MGNT Carlsbad, NM	DE-FG02-10ER64975 09/14/2011 Lynn	SC-23.2	Center or Excellence for Hazardous Materials Management (CEHMM) Algae to Biodiesel Project	729
LOVELACE BIOMED & ENVIR RES IN Albuquerque, NM	DE-FG02-09ER64783 07/14/2014 Scott	SC-23.2	Biological Bases for Radiation Adaptive Responses in the Lung	1,500
MEXICO INST. OF MINING & TECH Socorro, NM	DE-FG02-08CH11529 03/31/2012 Jones, Cervantes	SC-23	New Mexico Institute of Mining and Technology Will Use These Funds to Facilitate and Plan for Efforts to Construct an On-Campus Research Facility	0
NEW MEXICO STATE UNIVERSITY Las Cruces, NM	DE-FG02-08ER15996 08/14/2014 Smith	SC-22.12	Nitrogen Atom Transfer from High Valent Iron	120
NEW MEXICO STATE UNIVERSITY Las Cruces, NM	DE-FG02-94ER40847 03/31/2012 Kyle	SC-26.1	Experimental Studies of Quark-Gluon Structure of Nucleons and Nuclei	455
NEW MEXICO STATE UNIVERSITY Las Cruces, NM	DE-FG02-96ER40965 03/31/2014 Burkardt, Engelhardt	SC-26.1	Quark Gluon Structure of Hadrons in QCD	150
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-99ER41104 05/14/2014 Ellison	SC-25	Investigations of Beam Dynamics Issues at Current and Future Hadron Accelerators	188
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-04ER41300 02/28/2013 Matthews, Seidel, Gold	SC-25	New Mexico Center for Particle Physics (NMCPP) -- Task A: Collider Physics; Task A2 Collider Physics; Task B: Particle	696
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-94ER40821 11/30/2011 Bassalleck, Fields	SC-26.1	Strange Particles and Heavy Ion Physics	363
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FC02-10ER26007 08/31/2013 Bridges	SC-21.1	Enabling Exascale Hardware and Software Design Through Scalable System Virtualization	175
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-05ER15694 10/31/2011 Guo	SC-22.11	Quantum Dynamics of Elementary Chemical Reactions	92
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-05ER15712 08/31/2014 Datye	SC-22.12	Nanostructured Catalysts for Hydrogen Generation from Renewable Feedstocks	225
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-06ER15765 03/31/2012 Kemp	SC-22.12	Direct Partial Oxidations Using Molecular Oxygen	250

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-02ER15368 11/14/2012 Brinker	SC-22.12	Catalytic and Transport Behaviors of Model Porous and Composite Nanostructures	180
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-03ER15419 07/31/2012 Paine	SC-22.12	Preorganized and Immobilized Ligands for Metal Ion Separations	17
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-08ER46506 06/30/2012 Litvak	SC-22.21	Linking Ecosystem Scale Vegetation Change to Shifts in Carbon and Water Cycling: The Consequences of Widespread Pinon	15
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-08ER46530 08/31/2012 Atanassov	SC-22.21	DOE EPSCoR Materials for Energy Conversion	810
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-10ER41674 05/31/2015 Allahverdi	SC-26.1	Neutrinos and Nucleosynthesis in Hot and Dense Matter	95
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-10ER55028 12/14/2013 Gilmore	SC-24.2	Formation of Imploding Plasma Liners for HEDP and MIF Applications	102
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-09ER55062 08/14/2012 Gilmore	SC-24.2	Collaborative Research: Numerical and Experimental Investigation of Turbulent Transport Control via Shaping of Radial	150
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-07ER64393 03/14/2014 Pockman	SC-23.1	Hydraulic Mechanisms of Survival and Mortality During Drought in Pinon-Juniper Woodlands of Southwestern USA	473
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-09ER46619 08/14/2012 Lynn	SC-22.21	Development of Optimized Field-Reversed Configuration Plasma Formation Techniques for Magnetized Target Fusion	15
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-10ER46720 06/30/2013 Leseman	SC-22.21	Manipulation of Phonons With Phononic Crystals	565
, UNIVERSITY OF HEALTH SCI CTR Albuquerque, NM	DE-FG02-08ER64580 12/31/2011 Burchiel	SC-23.2	New Mexico Center for Isotopes in Medicine	0
NC (DBA NEW MEXICO CONSORTIUM) Los Alamos, NM	DE-FG02-09ER55026 07/31/2012 Rose	SC-24.2	Instability and Transport of Laser Beam in Plasma	108
ECHNOLOGY VENTURES CORPORATION Alberquerque, NM	DE-FG02-10ER64976 09/14/2013 McCorkle	SC-23.2	Technology Transfer & Commercialization of Technologies at National Laboratories by Technology Ventures Corporation	729
Total for NM :				10,052

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
DESERT RESEARCH INSTITUTE Las Vegas, NV	DE-FG02-10ER64965 06/14/2013 Moser	SC-23.1	Radiochemically-Supported Microbial Communities: A Potential Mechanism for Biocolloid Production of Importance to Actinide Transport	373
DESERT RESEARCH INSTITUTE Reno, NV	DE-FG02-10ER65003 09/14/2012 Boyle	SC-23.2	Nevada Water Resources Data, Modeling, and Visualization (DMV) Center at the Desert Research Institute - Phase II	729
DESERT RESEARCH INSTITUTE Reno, NV	DE-FG02-06ER64201 03/14/2012 Mitchell	SC-23.1	Improving the Representation of Ice Sedimentation Rates in Global Climate Models	170
ADA SYSTEM OF HIGHER EDUCATION Las Vegas, NV	DE-FG02-03ER15424 01/31/2013 Phaneuf	SC-22.11	Energetic Photon and Electron Interactions with Positive Ions	165
NEVADA, UNIVERSITY OF Las Vegas, NV	DE-FG02-10ER46721 06/30/2013 Cornelius	SC-22.21	High Pressure X-ray Absorption Studies on Correlated-Electron Systems	548
NEVADA, UNIVERSITY OF Las Vegas, NV	DE-FG02-03ER63651 09/14/2012 Nowak	SC-23.1	Biotic Processes Regulating the Carbon Balance of Desert Ecosystems	240
NEVADA, UNIVERSITY OF Las Vegas, NV	DE-FG02-10CH20021 12/31/2011 Lombardo	SC-23	Performance Assessment Institute (NV) at the University of Nevada, Las Vegas	972
NEVADA, UNIVERSITY OF Las Vegas, NV	DE-FG02-10ER64979 09/14/2015 Bae	SC-23.2	Development of Ultrafiltration Membrane-Separation Technology for Energy-Efficient Water Treatment and	777
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-05ER15645 01/31/2012 Ervin	SC-22.11	Hydrocarbon Radical Thermochemistry: Gas-Phase Ion Chemistry Studies	141
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-04ER15626 08/31/2012 Harper	SC-22.13	P-type ATPases in Plants- Role of Lipid Flippases in Membrane Biogenesis	140
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-08ER54951 12/14/2013 Safronova	SC-24.2	Theoretical Study of Radiation for Tungsten Ions for Magnetic Fusion Diagnostics	150
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-09ER46670 03/14/2013 Li	SC-22.22	Micro-Mechanisms and Multi-Scale Modeling of Cyclic Plastic Deformation of Magnesium Single Crystals	280
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-04ER54752 02/14/2012 Bauer	SC-24.2	Intense Magnetized Plasma-Wall Interaction	370
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-10ER41647 05/31/2012 Murphy	SC-25	Single Crystal Niobium Tubes for Particle Colliders Accelerator Cavities	200

Total for NV :

5,255

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ALFRED UNIVERSITY Alfred, NY	DE-FG02-10ER16128 03/14/2013 Bowers	SC-22.12	Computational and Experimental Investigations of the Molecular Scale Structure and Dynamics of Geologically Important Fluids and Mineral-Fluid	82
N NATIONAL STANDARDS INSTITUTE New York, NY	DE-FG02-09ER46566 08/14/2013 Benko	SC-22.22	Nanotechnology Standardization Activities - Support of U.S. Representation on ISO/TC 229 Nanotechnologies	50
THOMPSON INST. FOR PLANT RES. Ithaca, NY	DE-FG02-08ER64628 07/31/2012 Harrison	SC-23.1	Identification of Genes That Regulate Phosphate Acquisition and Plant Performance During Arbuscular Mycorrhizal Symbiosis in Medicago Truncatula and	255
BOYCE THOMPSON INSTITUTE Ithaca, NY	DE-FG02-90ER20015 08/31/2013 Stern	SC-22.13	Function and Regulation of Chloroplast-Encoded Antisense RNAs	155
BRONX COMMUNITY COLLEGE Bronx, NY	DE-FG02-04CH11210 12/31/2011 Seliger	SC-23	Center for Sustainable Energy at Bronx Community College	111
BRONX COMMUNITY COLLEGE Bronx, NY	DE-FG02-10ER65035 02/14/2012 Seliger	SC-23.2	Center for Sustainable Energy - Facility Development Continuation	374
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER46157 07/14/2012 Osgood	SC-22.22	Mapping the Electron Response of Nanomaterials	205
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER46169 08/31/2013 Millis	SC-22.22	Theory of Surface and Interface Physics of Correlated Electron Materials	150
COLUMBIA UNIVERSITY New York, NY	DE-FG02-05ER46215 07/14/2014 Kim	SC-22.22	Investigation of the Electron Interactions in Graphene	632
COLUMBIA UNIVERSITY New York, NY	DE-FG02-07ER64334 07/31/2012 Kleiman	SC-23.2	Low Dose Radiation Cataract	55
COLUMBIA UNIVERSITY New York, NY	DE-FG02-07ER64336 11/30/2011 Amundson	SC-23.2	Mechanistic and Quantitative Studies of Bystander Responses in 3-D Human Tissues for Low-Dose Radiation Risk Estimation	0
COLUMBIA UNIVERSITY New York, NY	DE-FG02-02ER63413 07/14/2011 Robertson	SC-23.1	Collaborative Research: Regional Climate-Change Projections Through Next-Generation Empirical and Dynamical	0
COLUMBIA UNIVERSITY New York, NY	DE-FG02-95ER54333 01/31/2013 Boozer	SC-24.2	Stellarator Theory	79
COLUMBIA UNIVERSITY New York, NY	DE-FG02-86ER53222 11/30/2013 Navratil	SC-24.2	High Beta Tokamak Research	933
COLUMBIA UNIVERSITY New York, NY	DE-FG02-00ER54585 08/14/2012 Mauel	SC-24.2	Nonlinear Dynamics of Strong Interchange Instabilities in a Rotating Dipole-Confined Plasma	105

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
COLUMBIA UNIVERSITY New York, NY	DE-FG02-99ER54524 03/14/2014 Sabbagh	SC-24.2	Study of MHD Stability and Active Mode Control in NSTX	525
COLUMBIA UNIVERSITY New York, NY	DE-FG02-98ER54459 10/31/2011 Mauel	SC-24.2	Levitated Dipole Experiment	427
COLUMBIA UNIVERSITY New York, NY	DE-FG02-98ER54464 01/14/2012 Sen	SC-24.2	Basic Physics of Tokamak Transport and Feedback Control	300
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER54761 08/14/2013 Navratil	SC-24.2	MHD Mode Control Research in DIII-D	375
COLUMBIA UNIVERSITY New York, NY	DE-FC02-06ER54862 01/14/2012 Keyes	SC-24.2	Center for Plasma Edge Simulation	110
COLUMBIA UNIVERSITY New York, NY	DE-FC02-06ER54863 01/14/2012 Keyes	SC-24.2	Center for Simulation of Wave Interactions with Magnetohydrodynamics	55
COLUMBIA UNIVERSITY New York, NY	DE-FG02-93ER40764 12/14/2013 Gyulassy	SC-26.1	Theory of Ultra-Dense Matter and the Dynamics of High Energy Interactions Involving Nuclei	295
COLUMBIA UNIVERSITY New York, NY	DE-FG02-92ER40699 11/30/2013 Lee	SC-25	Theoretical High Energy Physics	1,897
COLUMBIA UNIVERSITY New York, NY	DE-FG02-86ER40281 11/14/2011 Zajc	SC-26.1	Jet and Heavy Flavor Probes of the Quark-Gluon Plasma	800
COLUMBIA UNIVERSITY New York, NY	DE-FC02-06ER25783 08/14/2012 Keyes	SC-21.1	Towards Optimal Petascale Simulations (TOPS)	160
COLUMBIA UNIVERSITY New York, NY	DE-FG02-08ER25856 08/14/2012 Goldfarb	SC-21.1	Algorithms for Mathematical Programming with Emphasis on Bi-Level Models	195
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER25915 09/14/2012 Waisman	SC-21.1	Modeling the Fracture of Ice Sheets on Parallel Computers	301
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER25919 08/31/2012 Gelman	SC-21.1	Petascale Hierarchical Modeling via Parallel Execution	263
COLUMBIA UNIVERSITY New York, NY	DE-FC02-10ER25990 08/31/2013 Bergman	SC-21.1	Data Movement Dominates: Advanced Memory Technology to Address the Real Exascale Power Problem	200
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER16064 08/14/2012 McDermott	SC-22.13	Studies of Structure and Dynamics of Light Harvesting Complex 1 of R. Sphaeroides by Solid State NMR	0

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COLUMBIA UNIVERSITY New York, NY	DE-FG02-01ER15264 01/31/2014 Nuckolls, Brus	SC-22.12	Catalytic Methods to Form Organic Electronic Materials.	150
COLUMBIA UNIVERSITY New York, NY	DE-FG02-91ER14226 01/31/2013 Eisenenthal	SC-22.11	Photochemistry at Interfaces	152
COLUMBIA UNIVERSITY New York, NY	DE-FG02-93ER14339 07/31/2012 Parkin	SC-22.12	Fundamental Studies of Metal Centered Transformations Relevant to Catalysis	155
COLUMBIA UNIVERSITY New York, NY	DE-FG02-90ER14162 04/30/2012 Friesner	SC-22.13	Theoretical Studies of Photoactive Molecular Systems: Electron Transfer, Energy Transport, and Optical Spectroscopy	180
COLUMBIA UNIVERSITY New York, NY	DE-FG02-90ER14104 05/31/2014 Osgood	SC-22.11	Laser Dynamics Studies of Photoreactions on Single-Crystal and Nanostructured Surfaces	117
COLUMBIA UNIVERSITY New York, NY	DE-FG02-88ER13937 06/30/2012 Flynn	SC-22.11	Scanning Tunneling Microscopy Studies of Chemical Reactions on Surfaces	159
COLUMBIA UNIVERSITY New York, NY	DE-FG02-97ER14807 05/31/2013 Norton	SC-22.12	Catalytic Applications of H Atom Transfer from Transition-Metal Hydride Complexes	185
COLUMBIA UNIVERSITY New York, NY	DE-FG02-10ER65096 08/31/2013 Tippett	SC-23.1	Collaborative Research: Separating Forced and Unforced Decadal Predictability in Models and Observations	35
COLUMBIA UNIVERSITY New York, NY	DE-FG02-10ER65109 09/14/2013 Cane	SC-23.1	Present and Future Modes of Low Frequency Climate Variability	451
COLUMBIA UNIVERSITY New York, NY	DE-FG02-10ER65110 09/14/2013 Seager	SC-23.1	Impact of Rising Greenhouse Gases on Mid-Latitude Storm Tracks and Associated Hydroclimate Variability and Change	360
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER64809 07/14/2012 Hall, Smilenov	SC-23.2	Genetic Control of the Trigger for the G2/M Checkpoint	316
COLUMBIA UNIVERSITY New York, NY	DE-FG02-10ER65024 07/14/2012 Kenna	SC-23.1	Development of Enabling Scientific Tools to Characterize the Geologic Subsurface at Hanford	150
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER64898 09/14/2014 Bauer	SC-23.1	Continuous Evaluation of Fast Processes in Climate Models Using ARM Measurements	0
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-87ER45298 12/31/2013 DiSalvo	SC-22.23	Synthesis, Characterization and Properties of Nanoparticles of Intermetallic Compounds	268
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-89ER45405 04/30/2012 Henley	SC-22.22	Quasi-crystals and Quasi-equivalence: Symmetries and Energies in Alloys and Biological Materials	125

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-04ER46154 09/14/2011 Sievers	SC-22.3	Holographic Spectroscopy for Rapid Electron Bunch Analysis: Development of an Instrument with THz Resolved Optical	0
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER41628 08/14/2012 Hoffstaetter	SC-25	Fundamental Research in Superconducting RF Cavity Design	398
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46440 08/31/2013 van Dover	SC-22.22	Complex Amorphous and Crystalline Thin Film Dielectrics	190
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-08ER46517 05/31/2014 Liddell	SC-22.23	Self-Assembly of Non-Spherical Colloids: New Reduced Symmetry Crystals and Mesophases for Templating Functional Materials at Fine Scales	174
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-05ER46250 08/31/2011 Abruna	SC-22.23	Basic Research for the Hydrogen Fuel Initiative	250
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46432 08/31/2013 Chan	SC-22.22	Bridging the Quantum-Chemistry Solid-State Divide: Theory and Application to Molecular Crystals	285
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46393 04/14/2013 Sethna	SC-22.22	Deformed Materials: Towards a Theory of Materials Morphology Dynamics	250
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER46758 08/14/2013 Miller	SC-22.22	Understanding Microplasticity Processes Related to Fatigue Damage Using High Energy X-Rays and a Crystal-Based Modeling Formulation	250
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER46682 04/14/2015 Bazarov	SC-22.3	RECOVERY ACT - Investigation of Fundamental Limits to Beam Brightness Available From Photoinjectors	600
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER46684 04/14/2015 Erickson	SC-22.23	RECOVERY ACT - Directed Assembly of Hybrid Nanostructures Using Optically Resonant Nanotweezers	600
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER46693 04/30/2013 Gruner	SC-22.3	Versatile, Reprogrammable Area Pixel Array Detector for Time-Resolved Synchrotron X-ray Applications	700
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER46654 09/14/2012 Schlom	SC-22.23	SISGR - Using Interfaces To Create Strongly-Coupled Magnetic-Ferroelectrics	700
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-97ER62443 11/30/2011 Gruner	SC-23.2	Development and Applications of Photosensitive Device Systems to Studies of Biological and Organic Materials	350
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER55048 08/14/2012 Greenly	SC-24.2	Experimental and Computational Studies of High Energy Density Plasma Streams Ablated from Fine Wires	341
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER54942 07/31/2011 Seyler	SC-24.2	Collaborative Research: Dynamics of Electrostatic Solitary Waves and Their Effects on Current Layers	0

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CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER55031 08/14/2012 Hammer	SC-24.2	Spectroscopic Determination of the Magnetic Fields in Exploding Wire and X Pinch Plasmas	184
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-04ER41354 08/31/2011 Hoffstaetter	SC-25	RECOVERY ACT: Research in Superconducting Radiofrequency Systems	191
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER16199 08/31/2013 Chen	SC-22.12	Chemical Imaging of Single Metal Nanoparticle Catalysis	160
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-93ER25164 02/28/2012 Guckenheimer	SC-21.1	Computational Analysis of Dynamical Systems	115
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER26025 08/31/2013 Zabaras	SC-21.1	Modeling and Simulation of High Dimensional Stochastic Multiscale PDE Systems at the Exascale	135
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-05ER15687 08/14/2014 Coates	SC-22.12	Development and Application of New Catalysts for Heterocycle Carbonylation	160
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER16070 08/14/2012 Hanson	SC-22.13	Chloroplast Dynamics and Photosynthetic Efficiency	160
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-90ER14128 06/14/2012 Pope	SC-22.11	Investigation of Non-Premixed Turbulent Combustion	146
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-00ER15095 12/31/2013 Davis	SC-22.11	Bimolecular Dynamics of Combustion Reactions	70
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-01ER15180 10/31/2011 Cool	SC-22.11	Studies of the Chemistry of Oxygenated Fuels with Photoionization Mass Spectrometry	160
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER64988 06/14/2013 Buckley	SC-23.2	Microbial Food Web Mapping: Linking Carbon Cycling and Community Structure in Soils Through Pyrosequencing Enabled Stable Isotope Probing	255
DOWLING COLLEGE Oakdale, NY	DE-FG02-03ER63601 08/31/2011 Bernstein	SC-23.2	Local System Support for PDB Biological Unit Search and Display	0
GENERAL ELECTRIC COMPANY Niskayuna, NY	DE-FG02-09ER46575 07/31/2014 Soloveichik	SC-22.11	Center for Electrocatalysis, Transport Phenomena and Materials for Innovative Energy Storage -- EFRFC	2,499
HEALTH RESEARCH INC. Menands, NY	DE-FG02-09ER64756 05/14/2012 Newberg	SC-23.2	Bayesian Computational Approaches for Gene Regulation Studies of Bioethanol and Biohydrogen Production	65
IBM CORPORATION Yorktown Heights, NY	DE-FG02-09ER25941 09/14/2012 Moreira	SC-21.1	HPC Colony II	164

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IBM TJ WATSON RESEARCH CENTER Yorktown Heights, NY	DE-FC02-10ER25996 08/31/2013 Van Hensbergen	SC-21.1	A Fault-Oblivious Extreme-Scale Execution Environment	79
KITWARE, INC. Clifton Park, NY	DE-FG02-10ER65065 08/31/2013 Geveci	SC-23.1	Ultra-Scale Visualization Climate Data Analysis Tools	299
KITWARE, INC. Clifton Park, NY	DE-FC02-10ER26038 08/31/2013 Geveci	SC-21.1	A Pervasive Parallel Processing Framework for Data Visualization and Analysis at Extreme Scale	150
NATIONAL AERONAUT & SPACE ADM New York, NY	DE-AI02-09ER64739 04/30/2012 Del Genio	SC-23.1	Evaluation and Improvement of Cloud and Convective Parameterizations from Analyses of ARM Observations and Models	244
NATIONAL AERONAUT & SPACE ADM New York, NY	DE-AI02-08ER64547 10/31/2011 Ackerman	SC-23.1	Combining Measurements and Cloud-Resolving Model Simulations to Assess Aerosol Indirect Effects in Shallow Convection	47
NEW SCHOOL, THE New York, NY	DE-FG02-05CH11275 10/31/2013 Moriarty, Goodman	SC-23	The New School Green Building	972
YORK UNIV. SCHOOL OF MEDICINE New York, NY	DE-FG02-08ER64654 10/31/2011 Barcellos-Hoff	SC-23.2	Integrative Radiation Biology	839
YORK UNIV. SCHOOL OF MEDICINE New York, NY	DE-FG02-08ER64670 09/14/2011 Gordon	SC-23.2	Development of Biomarkers for Chronic Beryllium Disease in Mice	0
NEW YORK UNIVERSITY New York, NY	DE-FG02-08ER64587 07/31/2011 Holland	SC-23.1	Modeling Abrupt Change in Global Sea Level Arising from Ocean - Ice-Sheet Interaction	138
NEW YORK UNIVERSITY New York, NY	DE-FG02-86ER53223 12/31/2012 Weitzner, Chang	SC-24.2	Plasma Properties (Task III)	664
NEW YORK UNIVERSITY New York, NY	DE-FC02-06ER54845 08/31/2011 Weitzner	SC-24.2	SciDAC - Center for Plasma Edge Simulation	424
NEW YORK UNIVERSITY New York, NY	DE-FC02-09ER55017 07/31/2011 Chang	SC-24.2	Collaborative: Fusion Simulation Program (FSP)	70
NEW YORK UNIVERSITY New York, NY	DE-FG02-03ER46099 02/28/2013 Evans	SC-22.23	Material Lessons of Biology: Structure-Function Studies of Protein Sequences Involved in Inorganic-Organic	250
NEW YORK UNIVERSITY New York, NY	DE-FG02-09ER25924 09/14/2012 Vanden-Eijnden	SC-21.1	Stochastic Nonlinear Data-Reduction Methods with Detection and Prediction of Critical Rare Events	124
NEW YORK UNIVERSITY New York, NY	DE-FG02-92ER20071 05/31/2014 Coruzzi	SC-22.13	Asparagine Synthetase Gene Regulatory Network and Plant Nitrogen Metabolism	170

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NEW YORK UNIVERSITY New York, NY	DE-FG02-88ER25053 04/30/2014 Berger, Greengard	SC-21.1	Applied Analysis and Computational Mathematics	1,390
NEW YORK UNIVERSITY New York, NY	DE-FG02-06ER25718 12/14/2012 Widlund	SC-21.1	Domain Decomposition and Parallel Computing	123
NIVERSITY, POLYTECHNIC INST OF Brooklyn, NY	DE-FC02-10ER26019 08/31/2013 Chiang	SC-21.1	An Informational-theoretic Framework for Enabling Extreme-scale Science Discovery	100
ORK, CITY U. OF BARUCH COLLEGE New York, NY	DE-FG02-09ER41620 06/30/2012 Jalilian-Marian	SC-26.1	High-Energy QCD in Heavy-Ion Collisions	95
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-03ER15458 04/30/2013 Makse	SC-22.12	Studies of Elasticity, Sound Propagation and Attenuation of Acoustic Modes in Granular Media	118
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-06ER15817 08/14/2012 Koplik	SC-22.12	Particulate Transport and Sedimentation in Fracture Systems	95
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-09ER16075 08/31/2012 Gunner	SC-22.13	Studies of Photosynthetic Reaction Centers and Biomimetic Systems	181
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-84ER45153 08/31/2012 Sarachik	SC-22.22	Thermal Conductivity and Thermopower Near the 2D Metal-Insulator Transition	150
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-10ER46678 12/31/2012 Tamargo	SC-22.23	Synthesis & Engineering of Submonolayer Type-II Quantum Dots to Enhance Material Properties of Wide Bandgap Semiconductors	200
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-10ER46777 08/31/2013 Greenbaum	SC-22.23	Spectroscopic Studies of Materials for Electrochemical Energy Storage	180
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-01ER45935 01/14/2014 Matsui	SC-22.23	Programmed Nanomaterial Assemblies in Large-Scale Structures: Applications of Synthetic and Genetically Engineered Peptides to Bridge Nano-Assemblies and...	201
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-09ER16097 09/14/2012 Francesconi	SC-22.12	SISGR - Fundamental Chemistry of Technetium-99 Incorporated Into Metal Oxide, Phosphate and Sulfide Materials:	400
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-02ER15287 10/31/2011 Alexandratos	SC-22.12	Functionalized Scaffolds as a New Approach to the Design of Ion-Selective Polymer-Supported Reagents	240
NEW YORK, CITY U. OF LEHMAN C. New York, NY	DE-FG02-93ER45487 04/14/2014 Chudnovsky	SC-22.22	Dynamics of the Magnetic Flux in Superconductors	59
RK, CITY U. OF, QUEENS COLLEGE Flushing, NY	DE-FG02-09ER16047 08/31/2012 Jang	SC-22.11	Computational Modeling and Theory Development of Energy and Charge Flow Dynamics in Photosynthetic Units and Conjugated Polymer Systems	82

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TY UNIVERSITY OF STATEN ISLAND Staten Island, NY	DE-FG02-09ER25907 08/31/2012 Teddall	SC-21.1	Analysis of Self-Similar Solutions of Multidimensional Conservation Laws	38
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-07ER41502 08/31/2013 Ernst	SC-25	New Ideas for the ATLAS Experiment	145
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-03ER63531 12/14/2011 Min	SC-23.1	Retrievals of Cloud Optical Properties and Photon Path Length Distributions Using Existing ARM Data Streams	182
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-92ER61369 01/31/2013 Wang	SC-23.1	Study of Regional Climate Change	380
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-10ER65098 09/14/2012 Fitzjarrald	SC-23.1	Evaluating the Contribution of Climate Forcing and Forest Dynamics to Accelerating Carbon Sequestration by	145
NEW YORK, STATE U. OF BINGHTN Binghamton, NY	DE-FC02-07ER25803 11/14/2011 Govindaraju	SC-21.1	Center for Technology for Advanced Scientific Component Software (TASCS)	92
NEW YORK, STATE U. OF BINGHTN Binghamton, NY	DE-FG02-09ER46600 05/14/2012 Zhou	SC-22.23	In Situ Visualization and Theoretical Modeling of Early Stages of Oxidation of Metals and Alloys	150
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-09ER16066 08/14/2012 Autschbach	SC-22.12	Computational Studies of NMR Chemical Shifts in Open-Shell Actinide and Lanthanide Systems	140
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-90ER14143 10/14/2011 Bright	SC-22.12	Interfacial Solvation Under Aggressive Conditions	135
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-02ER15372 11/14/2012 Coppens	SC-22.13	Ground and Excited State Structures of Sensitizer Dyes Adsorbed on Semiconductor Nanoparticles	230
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-10ER46781 09/14/2013 Zutic	SC-22.22	Tailoring Magnetism and Spin in Quantum Dots	140
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-09ER46660 09/14/2012 Takeuchi	SC-22.23	SISGR: Bimetallic Electrochemical Displacement Materials Yielding High Energy, High Power, and Improved Reversibility	200
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-04ER46180 09/14/2013 Bird	SC-22.22	Quantum Coherence and its Manipulation in Coupled Quantum Dots	169
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-03ER46064 11/14/2012 DeMarco	SC-22.22	Magnetic and Superconducting Properties of Materials Studied by the <sup>99</sup> Ru, <sup>189</sup> O <sub>s</sub> , <sup>119</sup> Sn, <sup>57</sup> Fe and <sup>191</sup> Ir Mossbauer Effects in External Magnetic Fields	130
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-09ER64857 08/31/2011 Csatho	SC-23.1	Time-Lapse Tomographic Approaches for Monitoring Remediation Processes	55

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NEW YORK, STATE U. OF DELHI Delhi, NY	DE-FG02-06ER64288 03/14/2012 Volk, Smith	SC-23.2	Center of Excellence in Watershed Applications and Technology-enhanced Economic Revitalization - Willow and Forest Biomass Project	0
NEW YORK, STATE U. OF GENESEO Geneseo, NY	DE-FG02-10CH20022 12/31/2015 Geiger	SC-23	Molecular Structure Laboratory: Fourier Transform Nuclear Magnetic Resonance (FTNMR) Spectrometer and Ancillary	486
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-96ER14633 11/30/2011 Schoonen	SC-22.12	Reactivity of Iron Bearing Minerals and CO2 Sequestration: A Multi-Disciplinary and Experimental Approach	76
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER16052 02/29/2012 Fernandez-Serra	SC-22.11	Optimizing Interfacial Charge Transfer in Photocatalytic Water Splitting Devices	131
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-08ER15984 02/14/2014 Weinacht	SC-22.11	Combining High Level Ab Initio Molecular Structure Calculations with Laser Control of Molecular Dynamics	126
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER16017 05/31/2012 Reeder	SC-22.12	Structural Basis for Stabilization and Transformation Behavior of Amorphous Calcium Carbonate	163
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER16033 07/31/2014 Whittingham	SC-22.22	Northeastern Chemical Energy Storage Center (NOCESC) -- EFRC	2,636
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-10ER16139 04/14/2015 Fernandez-Serra	SC-22.11	RECOVERY ACT - First Principles Modeling of Metal-Electrolyte Systems: A Novel Approach to the Study of the	600
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-10ER16159 05/31/2013 Wong	SC-22.12	Changes of Porosity, Permeability and Mechanical Strength Induced by Carbon Dioxide Sequestration	229
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FC02-07ER25817 10/01/2010 Zhu	SC-21.1	Statistical Approaches to Aerosol Dynamics for Climate Simulation	0
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FC02-06ER25770 12/14/2011 Li	SC-21.1	Interoperable Technologies for Advanced Petascale Simulations (ITAPS)	145
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-10ER25955 12/14/2012 Dantong	SC-21.1	RECOVERY ACT - 100G FTP: An Ultra-High Speed Data Transfer Service Over Next Generation 100 Gigabit Per Second Network	1,500
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-92ER40697 11/14/2012 Jung, Rijssenbeek, Hobbs	SC-25	Nucleon Decay and Neutrino Experiments and Experiments at High Energy Hadron Colliders	1,586
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-88ER40388 11/30/2011 Shuryak	SC-26.1	Research in Theoretical Nuclear Physics	790
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-87ER40331 03/31/2014 Lacey	SC-26.1	Nuclear Reaction Studies	373

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NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-87ER40317 11/30/2013 Lattimer	SC-26.1	Research in Nuclear Astrophysics: Supernovae and Neutron Stars	221
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-05ER41372 12/31/2013 Deshpande	SC-26.1	Studies of Polarized Proton Collisions at RHIC	309
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-06ER41448 11/30/2013 Zingale	SC-26.1	Multidimensional Modeling of Astrophysical Thermonuclear Explosions	93
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-96ER40988 03/31/2014 Jacak, Drees, Hemmick	SC-26.1	Studies of Relativistic Heavy Ion Collisions at RHIC	940
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-98ER62570 02/29/2012 Zhang	SC-23.1	Development of Integrated ARM Datasets and Their Application to Improve Climate Models	183
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-10ER55036 06/30/2013 Samulyak	SC-24.2	Study of Plasma Liner Driven Magnetized Target Fusion via Advanced Simulations	72
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-07ER64444 07/31/2012 Zhang	SC-23.1	Improved Atmosphere-Ocean Coupled Modeling in the Tropics for Climate Prediction	188
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER46650 09/14/2012 Parise	SC-22.21	SISGR - Fundamental Studies of the Structural Response of Disordered Materials to High P and T	164
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-07ER41488 11/30/2011 Shkolnikov	SC-25	High Brightness Picosecond Ion Beam Source Based on Brookhaven National Lab Ultrafast Terawatt CO <sub>2</sub> Laser: Proof-of-Principle	86
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-08ER41547 07/14/2012 Ben-Zvi	SC-25	Study of Electron Transport and Amplification in Diamond	113
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-08ER41540 11/30/2012 Teaney	SC-26.1	Transport Processes in Non-Abelian Gauge Theories	98
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER41626 09/14/2012 Ben-Zvi	SC-25	R&D on Very-High-Current Superconducting Proton Linac	551
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-08ER46550 02/29/2012 Allen	SC-22.22	Quantum Theory of Semiconductor Photo-Catalysis and Solar Water Splitting	140
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER64747 05/14/2012 Lindquist	SC-23.1	Effects of Pore Structure Change and Multi-Scale Heterogeneity on Contaminant Transport and Reaction Rate Upscaling	137
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER64900 09/14/2014 Zhang	SC-23.1	Continuous Evaluation of Fast Processes in Climate Models Using ARM Measurements	0

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NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-10ER64925 01/31/2012 Lin	SC-23.1	Two-Way Integration of WRF and CCSM for Regional Climate Simulations	226
NEW YORK, STATE U. OF SYRACUSE Syracuse, NY	DE-FG02-09ER16101 09/14/2012 Dibble	SC-22.11	SISGR: Dynamics of Radical Reactions in Biodiesel Combustion	120
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-94ER14432 10/31/2011 Watson	SC-22.12	Grain-Boundary Transport of Incompatible Elements in Rocks	206
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-09ER16005 01/31/2012 Belfort	SC-22.12	Combinatorial and High Throughput Membrane Synthesis and Testing: Tailoring Membrane Surfaces to Applications	155
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-07ER15903 08/31/2013 Lakshmi	SC-22.13	Elucidating the Principles that Control Proton-Coupled Electron Transfer Reactions in the Photosynthetic Protein, Photosystem II. A Model for Design of Bio-Insp	160
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FC02-10ER25989 08/31/2013 Carothers	SC-21.1	Enabling Co-design of Multi-layer Exascale Storage Architectures	144
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FC02-06ER25769 12/14/2011 Shephard	SC-21.1	Interoperable Technologies for Advanced Petascale Simulations	500
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-09ER46593 05/31/2013 Kane	SC-22.23	Engineering the Interface Between Inorganic Materials and Cells	175
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-09ER46608 08/31/2012 Zhang	SC-22.22	TMS: Defect Modeling Beyond the Density Functional Theory	600
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-06ER46347 09/14/2012 Lin	SC-22.22	Architectural Photonics for Maximizing Solar Energy Conversion	250
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-08ER41575 08/31/2014 Napolitano	SC-25	Searching for Theta_13 at Daya Bay	256
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-88ER40414 03/31/2014 Schroeder	SC-26.1	Studies of Heavy Ion Reactions and Transuranic Nuclei	335
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-91ER40685 10/31/2011 McFarland	SC-25	Theoretical and Experimental Studies of Elementary Physics	2,536
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-94ER20155 05/31/2011 Wu	SC-22.13	Transcription Regulation of CeIS and a Novel Cellulase Operon Encoding Five Clostridium thermocellum Cellulosomal	0
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-09ER16089 09/14/2012 Holland	SC-22.12	High-Spin Cobalt Hydrides for Catalysis	145

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ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-09ER16121 09/14/2012 Bren	SC-22.13	SISGR: Modular Nanoscale and Biomimetic Assemblies for Photocatalytic Hydrogen Generation	560
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-05ER15713 01/31/2012 Eberly	SC-22.11	Atomic and Molecular Electron Correlation in Strong Fields	100
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-06ER15821 02/28/2013 Krauss	SC-22.13	Photophysics and Photoinduced Charge Transport in Single Walled Carbon Nanotubes	120
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-01ER15204 10/31/2013 Novotny	SC-22.11	Antenna-Coupled Light-Matter Interactions	135
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-86ER13569 05/31/2011 Jones	SC-22.12	Transition Metal Activation and Functionalization of Carbon-Hydrogen Carbon-Carbon Bonds	150
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-06ER46298 04/30/2012 Teitel	SC-22.22	Critical Phenomena in Driven Granular Matter: Jamming and Glassy Behavior	115
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-05ER46207 05/14/2014 Novotny	SC-22.22	Optical Spectroscopy of Defects and Dopants in Nanocarbon Materials	140
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-09ER55033 08/14/2014 Frank	SC-24.2	The Dynamics of Magnetized Astrophysical Jets Through Pulsed Power HEDP Laboratory Studies	536
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-93ER54215 11/30/2011 Betti	SC-24.2	Magnetohydrodynamics of Tokamak Plasma with Arbitrary Flow: Equilibrium, Stability and Nonlinear Evolution	98
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-05ER54839 05/31/2012 Theobald	SC-24.2	Advanced Concept Exploration of Fast Ignition	500
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FC02-04ER54789 07/31/2014 Betti	SC-24.2	Fusion Science Center for Extreme States of Matter and Fast Ignition Physics	1,579
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-04ER54768 05/31/2012 Betti	SC-24.2	Laser Driven Magnetic-Flux Compression: Advanced Ignition and Applications to Basic Science	197
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-08ER64692 09/14/2011 Wu	SC-23.2	Pathways and Regulatory Network of Hydrogen Production from Cellulose by Clostridium Thermocellum	360
ROCKEFELLER UNIVERSITY New York, NY	DE-FG02-91ER40651 01/31/2013 Goulianos	SC-25	Experimental Studies of Elementary Particle Interactions at High Energies	572
ROCKLAND COMMUNITY COLLEGE Suffern, NY	DE-FG02-08CH11522 12/31/2012 Baker	SC-23	Rockland Community College Science Laboratory (NY)	291

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ETTERING INST. FOR CANCER RES. New York, NY	DE-FG02-09ER64822 08/31/2013 Lewis	SC-23.2	Integrated Manhattan Project for Excellence in Radiochemistry (IMPER)	600
ETTERING INST. FOR CANCER RES. New York, NY	DE-FG02-09ER64874 09/14/2011 Lewis	SC-23.2	Multimodality Imaging with Silica-Based Targeted Nanoparticle Platforms	0
ST. BONAVENTURE UNIVERSITY St. Bonaventure, NY	DE-FG02-10CH20004 08/31/2011 Fischer	SC-23	Science Lab Expansion at St. Bonaventure University	534
SYRACUSE UNIVERSITY Syracuse, NY	DE-FG02-84ER40146 03/31/2014 Souder	SC-26.1	Spin Dependent Phenomena in Medium Energy Physics	408
SYRACUSE UNIVERSITY Syracuse, NY	DE-FG02-85ER40231 12/31/2012 Balachandran	SC-25	Research Program in Elementary Particle Theory	355
UNION COLLEGE Schenectady, NY	DE-FG02-05ER41398 08/31/2013 Surman	SC-26.1	Neutrinos and Nucleosynthesis in Gamma Ray Bursts	33
Total for NY :				57,186

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AKRON, UNIVERSITY OF Akron, OH	DE-FG02-10ER46779 08/31/2013 Karim	SC-22.21	In-situ Neutron Scattering Determination of 3D Phase-Morphology Correlations in Fullerene Block Copolymer Systems	295
AKRON, UNIVERSITY OF Akron, OH	DE-FG02-05CH11279 04/30/2011 Cakmak, Kelley	SC-23	Development of National Polymer Innovation Center	0
AKRON, UNIVERSITY OF Akron, OH	DE-FG02-90ER14151 06/30/2014 Perry	SC-22.11	The Dynamics of Large-Amplitude Motion in Energized Molecules	122
BOWLING GREEN STATE UNIVERSITY Bowling Green, OH	DE-FG02-06ER15827 03/31/2013 Lu	SC-22.11	Single-Molecule Interfacial Electron Transfer	365
CASE WESTERN RESERVE UNIV. Cleveland, OH	DE-FG02-95ER40898 12/31/2012 Starkman, Vachaspati	SC-25	Theoretical Physics Research at the High Energy Frontier, Including Astrophysics and Cosmology	257
CASE WESTERN RESERVE UNIV. Cleveland, OH	DE-FG02-01ER45934 11/14/2012 Rosenblatt	SC-22.23	Nanoscope Manipulation and Imaging of Liquid Crystals	130
CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-07ER64353 08/31/2012 Heineman	SC-23.1	Spectroelectrochemical Sensor for Pertechetate Applicable to Hanford and other DOE Sites	0
CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-84ER40153 12/31/2013 Wijewardhana	SC-25	Research in Particle Physics Task A and B	826
CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-04ER15604 08/14/2013 Gulians	SC-22.12	Surface Termination of M1 Phase and Rational Design of Propane Ammoxidation Catalysts	160
EVELAND CLINIC FOUNDATION, THE Cleveland, OH	DE-FG02-09CH11565 07/31/2012 Lowe	SC-23	Next Generation Neuroimaging at Cleveland Clinic	0
KENT STATE UNIVERSITY Kent, OH	DE-FG02-10ER64971 05/31/2013 Blackwood	SC-23.2	Tracking Down Cheaters: Molecular Analysis of Carbon Consumption by Organisms That Do Not Contribute to Extracellular Enzyme Pools	344
KENT STATE UNIVERSITY Kent, OH	DE-FG02-09ER46572 02/28/2013 Kumar	SC-22.23	Biaxiality in Thermotropic Bent-Core and Tetrapodic Nematic Liquid Crystals	350
KENT STATE UNIVERSITY Kent, OH	DE-FG02-06ER46331 08/14/2013 Lavrentovich	SC-22.22	Electric Field Effects in Liquid Crystals with Dielectric Dispersion	180
KENT STATE UNIVERSITY Kent, OH	DE-FG02-01ER41194 06/14/2013 Manley	SC-26.1	Baryon Spectroscopy Through Partial-Wave Analysis and Meson Photoproduction	80
KENT STATE UNIVERSITY Kent, OH	DE-FG02-89ER40531 03/31/2012 Keane, Margetis	SC-26.1	Heavy Ion Collisions Over a Range of Relativistic Energies	433

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MIAMI UNIVERSITY Oxford, OH	DE-FG02-86ER45281 12/31/2013 Pechan	SC-22.22	Magnetic Nanostructures and Spintronic Materials	81
MIAMI UNIVERSITY Oxford, OH	DE-FG02-07ER64369 03/14/2012 Dong	SC-23.1	Technetium and Iron Biogeochemistry in Suboxic Subsurface Environments with Emphasis on the Hanford Site	0
MIAMI UNIVERSITY Oxford, OH	DE-FG02-10ER16138 04/14/2015 Dabney-Smith	SC-22.13	RECOVERY ACT - Thylakoid Assembly and Folded Protein Transport by the Tat Pathway	600
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-04ER15495 11/14/2012 Allen	SC-22.12	Geochemistry of Interfaces: From Surfaces to Interlayers to Clusters	87
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-04ER15614 10/31/2013 DiMauro	SC-22.11	Attosecond and Ultra-Fast X-Ray Science	200
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-01ER15172 10/31/2013 Miller	SC-22.11	Spectroscopic Detention, Characterization and Dynamics of Free Radicals Relevant to Combustion Processes	140
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-08ER15976 08/31/2014 Tabita	SC-22.13	Molecular Regulation of Photosynthetic Carbon Dioxide Fixation in Nonsulfur Purple Bacteria	170
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-10ER16178 07/14/2011 Ding	SC-22.13	Plant Vascular Biology 2010, Columbus, OH - July 24-28, 2010	4
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-06ER15833 12/31/2012 DiMauro	SC-22.11	Imaging of Electronic Wave Functions During Chemical Reactions	222
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER15881 07/31/2011 Grotewold	SC-22.13	Engineering Phenolic Metabolism in the Grasses Using Transcription Factors	70
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER15896 08/14/2013 Ozkan	SC-22.12	Investigation of the Nature of Active Sites on Heteroatom-Containing Carbon Nano-Structures for Oxygen Reduction	170
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-06ER25749 09/14/2011 Panda	SC-21.1	Coordinated Fault Tolerance for High Performance Computing	199
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-91ER20042 07/31/2013 Krzycki	SC-22.13	Transmethylation reactions during methylotrophic methanogenesis in methanogenic Archaea	165
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-06ER25755 09/14/2012 Panda	SC-21.1	Center for Programming Models for Scalable Parallel Computing	300
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-06ER25779 12/14/2011 Shen	SC-21.1	SCIDAC Institute for Ultrascale Visualization	150

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OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-06ER25775 09/30/2012 Catalyurek	SC-21.1	SciDAC Institute: Combinatorial Scientific Computing and Petascale Simulations (CSCAPES)	150
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER25906 08/31/2012 Keyfitz	SC-21.1	Analysis of Self-Similar Solutions of Multidimensional Conservation Laws	90
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER25901 07/31/2012 Calyam	SC-21.1	Sampling Approaches for Multi-Domain Internet Performance Measurement Infrastructures to Better Serve Network Control and Management	147
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-08ER25850 07/31/2012 Sadayappan	SC-21.1	Scalable Fault Tolerance Runtime Technology for Petascale Computers	130
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-10ER26018 08/31/2013 Shen	SC-21.1	An Information-theoretic Framework for Enabling Extreme-scale Science Discovery	150
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-10ER25995 08/31/2013 Sadayappan	SC-21.1	A Fault-Oblivious Extreme-Scale Execution Environment	75
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-10ER26040 08/31/2013 Sadayappan	SC-21.1	A Polyhedral Transformation Framework for Compiler Optimization	128
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-91ER40690 11/30/2013 Kass	SC-25	Research in Elementary Particle Physics	2,268
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-95ER40900 12/31/2012 Collings	SC-25	Material, Strands, and Cables for Superconducting Accelerator Magnets	241
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-10ER46740 08/14/2013 Randeria	SC-22.22	Theoretical Investigations of Single Particle Spectroscopies of Novel Materials	105
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER41609 11/14/2011 Kagan	SC-25	Development of Single Crystal Chemical Vapor Deposition Diamonds for Detector Applications	60
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-09ER41586 11/30/2011 Furnstahl	SC-26.1	Building a Universal Nuclear Energy Density Functional	88
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-10ER41687 06/14/2013 Heinz, Kovchegov	SC-26.1	Nuclear Theory for High Energy Collisions	370
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-10ER41684 05/31/2013 Heinz	SC-26.1	Quantitative Jet and Electromagnetic Tomography (JET) of Extreme Phases of Matter in Heavy-Ion Collisions	45
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-10ER41648 06/14/2013 Sumption	SC-25	RECOVERY ACT: SRF-Fundamental Study of Micro-Defects in Electropolished EB-Welded and Hydroformed SRF Accelerating Structures	600

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-03ER46054 06/14/2013 Hammel	SC-22.21	Nanoscale Understanding of Exchange Bias and Spin Wave Manipulation Using Advanced MRFM Imaging Techniques	190
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-99ER45795 12/31/2013 Wilkins	SC-22.22	Modeling Dynamically and Spatially Complex Materials	0
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER46427 08/31/2013 Wu	SC-22.22	Fabricating Highly Efficient Photocathodes for p-type Dye-sensitized Solar Cells	174
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER46423 12/31/2013 Trivedi	SC-22.22	Orbitally Controlled Magnetism and Transport in Oxide Heterostructures: Quantum Simulations and Nanoscale Imaging	0
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER46424 04/30/2012 Trivedi	SC-22.22	Interaction Effects in Quasi-One-Dimensional Electron Systems	0
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER46567 06/30/2012 Mills	SC-22.22	Mechanisms and Modeling of High Output Shape Memory Alloys	414
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER46595 05/14/2012 Yang	SC-22.22	Optical Study of Spin Dynamics in Semiconductor Nanowires	200
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-08ER46533 12/31/2011 Lemberger	SC-22.22	Experimental Study of Severely Underdoped Ultrathin Cuprate Films	85
OHIO UNIVERSITY Athens, OH	DE-FG02-06ER46317 07/31/2013 Smith	SC-22.22	Spin-Polarized Scanning Tunneling Microscopy Studies of Nanoscale Magnetic and Spintronic Nitride Systems	160
OHIO UNIVERSITY Athens, OH	DE-FG02-06ER46300 11/30/2011 Castillo	SC-22.22	Fluctuations in the Slow Dynamics of Glasses and Granular Systems	103
OHIO UNIVERSITY Athens, OH	DE-FG02-02ER46012 09/14/2014 Hla	SC-22.22	Investigation and Manipulation of Nanoscale Molecular Superconductivity	125
OHIO UNIVERSITY Athens, OH	DE-FG02-10ER41678 05/31/2015 Elster	SC-26.1	Advancing the Theory of Nuclear Reactions With Rare Isotopes: From the Laboratory to the Cosmos	11
OHIO UNIVERSITY Athens, OH	DE-FG02-93ER40756 10/31/2013 Elster	SC-26.1	Nuclear Dynamics and Astrophysics in Few- and Many-Body Systems	361
OHIO UNIVERSITY Athens, OH	DE-FG02-88ER40387 11/30/2011 Brune	SC-26.1	Studies of Nuclear Astrophysics, Structure, and Reactions with Neutrons, Radioactive Beams, and Other Probes	340
WRIGHT STATE UNIVERSITY Dayton, OH	DE-FG02-03ER15379 10/31/2011 Higgins	SC-22.12	Kinetic Complexity of Mineral-Water Interface Reactions Relevant to CO2 Sequestration: Atomic-Scale Reactions to	110

Total for OH :

13,020

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
LANGSTON UNIVERSITY Langston, OK	DE-FG02-99ER41109 05/14/2012 Snow	SC-25	Langston University - High Energy Physics (LU-HEP)	70
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-04ER41306 04/30/2013 Nandi	SC-25	Theoretical Research in Weak, Electromagnetic, and Strong Interactions	305
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-96ER20215 08/31/2014 Mort	SC-22.13	The Structure of Pectins	116
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-08ER15968 07/14/2014 Burnap	SC-22.13	Genetic and Metabolic Integration of the Carbon Concentrating Mechanism with the Light and Dark Reactions of Oxygenic	135
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-04ER46124 02/28/2013 Xie	SC-22.22	Charge, Spin and Heat Transport in Low-Dimensional Systems	90
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-08ER64636 08/14/2011 Doust	SC-23.2	Development of Genomic and Genetic Tools for Foxtail Millet, and Use of These Tools in the Improvement of Biomass Production	95
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-10ER64992 07/14/2013 Zhou	SC-23.2	From Community Structure to Functions: Metagenomics-Enabled Predictive Understanding of Temperature Sensitivity of Soil Carbon Decomposition to Climate	1,998
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-07ER41517 08/31/2012 Baron	SC-25	Spectroscopic Studies of SNe Ia: Finding the Right Model	55
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-09ER46618 08/14/2012 Striolo	SC-22.21	Electrolytes at Solid-Water Interfaces: Theoretical Studies for Practical Applications	15
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-10ER46725 07/14/2013 Resasco	SC-22.21	Center for Interfacial Reaction Engineering	2,379
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-10ER46706 06/30/2013 Yang	SC-22.21	Interband Cascade Photovoltaic Cells	580
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-06ER64239 08/31/2012 Resasco	SC-23.2	Application of Single-Walled Carbon Nanotubes, The University of Oklahoma	972
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-05ER64062 05/31/2012 Lamb	SC-23.1	Southern Great Plains Site Scientist	400
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-06ER64319 08/31/2011 Luo	SC-23.1	Data-Model Assimilation at the FACE and AmeriFlux Sites Toward Predictive Understanding of Carbon Sequestration at	0
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-07ER64383 03/31/2012 Zhou	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-06ER15769 07/31/2012 Krumholz	SC-22.13	Genes Needed for H2 Production by Sulfate Reducing Bacteria	220
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-96ER20214 06/14/2014 McInerney	SC-22.13	Protein Complexes Involved in Syntrophic Hydrogen Production and Electron Transfer	184
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-04ER41305 04/30/2013 Skubic, Milton	SC-25	Experimental Physics Investigations Using Colliding Beam Detectors at Fermilab, Cornell & LHC; Nonperturbative Quantum	829
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-07ER54931 07/14/2012 Brennan	SC-24.2	Hot Particle and Turbulent Transport Effects on Resistive Instabilities	0
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-10ER55067 05/31/2013 Brennan	SC-24.2	Development and Application of Predictive Tools for MHD Stability Limits in Tokamaks	242
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-08ER54950 01/31/2012 Brennan	SC-24.2	Flow Shear Effects in the Onset Physics of Resistive MHD Instabilities in Tokamaks	0
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-10ER65045 09/14/2012 Crunkleton	SC-23.2	Development of Green Fuels from Algae - The University of Tulsa	729
Total for OK :				9,414

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
GALOIS, INC. Portland, OR	DE-FC02-10ER26000 08/31/2013 Sottile	SC-21.1	COMPOSE - HPC: Software Composition for Extreme Scale Computational Science and Engineering	70
ON HEALTH & SCIENCE UNIVERSITY Portland, OR	DE-FG02-10ER64953 05/31/2013 Tebo	SC-23.1	Manganese Redox Mediation of UO2 Stability and Uranium Fate in the Subsurface: Molecular and Meter Scale Dynamics	316
ON HEALTH & SCIENCE UNIVERSITY Portland, OR	DE-FG02-09ER64806 07/14/2012 Tratnyek	SC-23.1	Technetium Reduction and Permanent Sequestration by Abiotic and Biotic Formation of Low-Solubility Sulfide Mineral Phases	212
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-09ER64759 05/14/2012 Colwell	SC-23.1	Microbial Activity and Precipitation in at Solution-Solution Mixing Zones in Porous Media	193
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-08ER64630 08/14/2012 Mockler	SC-23.2	A Universal Genome Array and Transcriptome Atlas for Brachypodium Distachyon.	200
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-08ER64665 09/14/2012 Strauss	SC-23.2	Epigenomics of Development in Populus	400
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-09ER64860 08/31/2012 Haggerty	SC-23.1	Geoelectrical Measurement of Multi-Scale Mass Transfer Parameters	52
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-10ER65000 07/14/2013 Myrold	SC-23.2	Meta-"omics" Analysis of Microbial Carbon Cycling Responses to Altered Rainfall Inputs in Native Prairie Soils	338
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-10ER65076 09/14/2013 Law	SC-23.1	The Effects of Climate, Forest Age, and Disturbance History on Carbon and Water Processes at Ameriflux Sites Across Gradients in Pacific Northwest Forests	349
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-06ER64307 08/31/2012 Law	SC-23.1	Enhancing the Precision and Accuracy Within and Among Ameriflux Site Measurements	499
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-04ER63911 09/14/2011 Law	SC-23.1	AmeriFlux Measurement Network: Science Team Research	199
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-97ER41026 12/31/2011 Loveland	SC-26.1	Studies of Heavy Nuclei Produced in Low and Intermediate Energy Nuclear Collisions	160
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-10ER25980 04/14/2015 Chiang	SC-21.1	RECOVERY ACT - CAREER: Sustainable Silicon - Energy-Efficient VLSI Interconnect for Extreme-Scale Computing	750
OREGON, UNIVERSITY OF Eugene, OR	DE-FC02-10ER26005 08/31/2013 Malony	SC-21.1	Vancouver: Designing a Next-Generation Software Infrastructure for Productive Heterogeneous Exascale Computing	174
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-09ER25933 09/14/2012 Malony	SC-21.1	MOGO: Model-Oriented Global Optimization of Petascale Applications	174

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-08ER25846 07/31/2011 Malony	SC-21.1	Extreme Performance Scalable Operating Systems: FastOS	158
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-07ER25826 05/14/2011 Malony	SC-21.1	Knowledge-Based Parallel Performance Technology for Scientific Application Competitiveness	0
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-96ER40969 06/30/2014 Brau	SC-25	Task A: Theory of Elementary Particles; Task B Experimental High Energy Physics	1,461
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-96ER40972 04/30/2012 Hwa	SC-26.1	Physics of Nuclear Collisions at High Energy	196
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-05ER41383 08/31/2012 Brau	SC-25	University-Based Detector Research & Development for the International Linear Collider	0
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-07ER15907 08/31/2013 Lonergan	SC-22.13	Photovoltaic and Photochemical Properties of Conjugated Ionomer Junctions (new title)	192
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-05ER15634 12/31/2014 Kellman	SC-22.11	Dynamical Analysis of Highly Excited Spectra	130
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-09ER41623 08/14/2012 Brau	SC-25	Sid Detector R&D	895
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-04ER46158 08/31/2012 Kevan	SC-22.22	Manybody Interactions in Magnetic Films and Nanostructures	160
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-03ER46061 07/14/2012 Richmond	SC-22.23	Research Project on the Recruitment, Retention, and Promotion of Women in the Chemical Sciences	160
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-96ER45557 02/28/2014 Richmond	SC-22.23	Molecular Processes Underlying the Structures and Assembly of Thin Films and Nanoparticles at Complex Interfaces	260
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-10ER65043 07/31/2011 Bohannan	SC-23.2	Travel for Ecological Society of America August 2010 Meeting Symposium: "Microbial Gate-Keepers and Climate Change"	15
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-09ER64719 12/31/2012 Bridgham	SC-23.1	Climate Effects on Plant Range Distributions and Community Structure of Pacific Northwest Prairies	370
PARATOOLS, INC. Eugene, OR	DE-FC02-07ER54910 02/14/2012 Malony	SC-24.2	Framework Application for Core-Edge Transport Simulation (FACETS)	80
PORTLAND STATE UNIVERSITY Portland, OR	DE-FG02-06CH11404 06/30/2012 Wamser	SC-23	Solar Photovoltaic Test Facility System	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PORTLAND STATE UNIVERSITY Portland, OR	DE-FG02-08ER64515 12/31/2011 Khalil	SC-23.1	Closing the Gaps in the Budgets of Methane and Nitrous Oxide	533
PORTLAND STATE UNIVERSITY Portland, OR	DE-FG02-07ER46406 06/30/2013 Koenenkamp	SC-22.21	High-Resolution Photoemission Electron Microscopy	220
			Total for OR :	8,916

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
AGRICULTURE, U.S. DEPT. OF Newtown Square, PA	DE-AI02-07ER64355 03/14/2012 Hollinger	SC-23.1	Using Model Analyses & Surface-Atmosphere Exchange Measurements from the Howland AmeriFlux Supersite in Maine, USA, to Improve Understanding of Forest Ecosystem	90
.S. DEPT. OF - AGR RES SERVICE Wyndmoor, PA	DE-AI02-07ER64454 07/31/2011 Buckler	SC-23.2	Developing Association Mapping in Polyploid Perennial Biofuel Grasses	0
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-01ER45893 06/30/2014 De Graef	SC-22.21	Materials Applications of Aberration-Corrected Lorentz Microscopy	133
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-08ER46481 03/14/2012 Majetich	SC-22.22	Dipolar Ferromagnets for Magnetocaloric Effect Nanocomposites	96
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-10ER46760 02/29/2012 Pistorius	SC-22.23	Accelerated Corrosion of Stainless Steel in Thiocyanate-containing Solutions	200
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-09ER46645 09/14/2012 Suter	SC-22.21	SISGR - Quantifying Damage Accumulation During Ductile Plastic Deformation Using Synchrotron Radiation	400
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-09ER16078 09/14/2012 Gellman	SC-22.12	Molecular-Level Design of Heterogeneous Chiral Catalysts	660
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-10ER16141 04/14/2015 Kitchin	SC-22.12	RECOVERY ACT - Multifunctional Oxygen Evolution Electrocatalyst Design and Synthesis	600
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-07ER15919 02/14/2012 Kitchin	SC-22.12	Modeling Coverage Dependence in Surface Reaction Networks	0
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-09ER25918 09/14/2012 Schneider	SC-21.1	Machine Learning for Massive Scale Cosmology	611
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-01ER25438 12/14/2010 Gurtin	SC-21.1	Continuum Mechanical and Computational Aspects of Material Behavior	68
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-87ER40315 11/30/2013 Franklin	SC-26.1	Experimental Medium Energy Physics	1,019
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-91ER40682 10/31/2012 Ferguson, Vogel	SC-25	Research in Experimental and Theoretical High Energy Physics	1,400
DREXEL UNIVERSITY Philadelphia, PA	DE-FG02-07ER46473 08/31/2013 Gogotsi	SC-22.23	Low Temperature Synthesis of Carbide-derived-carbons from Binary and Ternary Carbides in the Si-Ti-C System:	150
DREXEL UNIVERSITY Philadelphia, PA	DE-FG02-00ER41134 06/30/2012 Lane	SC-25	Neutrino Physics	263

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
NAL ADVANCEMENT ALLIANCE, INC. Philadelphia, PA	DE-FG02-05CH11302 12/31/2012 Hamm, Nicholas	SC-23	Center for Development of Math, Science and Technology Understanding	0
NAL ADVANCEMENT ALLIANCE, INC. Philadelphia, PA	DE-FG02-10ER65005 09/14/2011 Nicholas	SC-23.2	Educational Advancement Alliance STEM Minority Graduate Program (PA)	4,374
FOX CHASE CANCER CENTER Philadelphia, PA	DE-FG02-09ER64800 07/30/2012 Doss	SC-23.2	Application of Low Dose Radiation Adaptive Response to Control Aging-Related Diseases	285
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-05ER15720 06/14/2014 Regen	SC-22.12	Hyper-Thin Membranes for Hydrogen Purification	130
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-93ER14350 06/14/2012 Wachs	SC-22.12	Fundamental Surface Structure-Photoactivity Relationships of Semiconductor Mixed Oxides for Splitting	165
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-08ER46548 04/30/2012 Harmer	SC-22.21	Discovering the Role of Grain Boundary Complexions in Materials	160
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-07ER46463 05/14/2013 Jagota	SC-22.23	Bio-Inspired Architectures for Controlled Adhesion, Friction and Surface Compliance	285
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-08ER54993 05/31/2012 Kritz	SC-24.2	Center for Simulation of Wave Interactions with Magnetohydrodynamics (SWIM) Project	50
LEHIGH UNIVERSITY Bethlehem, PA	DE-FC02-08ER54985 02/29/2012 Kritz	SC-24.2	Proposed Lehigh University Contribution to the Center for Plasma Edge Simulation (CPES) Project	100
LEHIGH UNIVERSITY Bethlehem, PA	DE-FC02-09ER55019 07/31/2011 Kritz	SC-24.2	Fusion Simulation Program (FSP)	120
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-09ER55022 07/14/2012 Schuster	SC-24.2	Numerical and Experimental Investigation of Turbulent Transport Control via Shaping of Radial Plasma Flow Profiles	67
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-92ER54141 11/30/2012 Kritz	SC-24.2	Predicted Integrated Modeling of Heated Tokamak Plasmas	284
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-10ER46698 04/30/2014 Jain	SC-22.23	Laser Fabrication of Active Single-Crystal Architecture in Glass	175
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-10ER65021 09/14/2012 Coulter	SC-23.2	Energy Systems Engineering Institute at Lehigh University	486
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER64732 04/30/2013 Fisher-Vanden	SC-23.1	Factors Influencing Energy Use and Carbon Emissions in China	19

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER64701 07/14/2012 de OliveiraBuanafina	SC-23.2	Identifying Genes Controlling Ferulate Cross-Link Formation in Grass Cell Walls	187
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER64615 08/14/2012 Mueller	SC-23.1	Release of Aged Contaminants From Weathered Sediments: Effects of Sorbate Speciation on Scaling of Reactive	83
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER64641 08/14/2012 Wagener	SC-23.1	A Framework for Probabilistic Projections of Energy-Relevant Streamflow Indicators Under Climate Change Scenarios for the US	130
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER65053 08/31/2013 Tien	SC-23.2	Imaging Lingin Degradation: Bio-prospecting for New Enzymes for Use in Biofuel Production	779
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER64859 08/31/2012 Singha	SC-23.1	Geoelectrical Measurement of Multi-Scale Mass Transfer Parameters	70
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER65082 08/31/2013 Forest	SC-23.1	Linking the Uncertainty of Low Frequency Variability in Tropical Forcing in Regional Climate Change	394
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER65087 08/31/2013 Burgos	SC-23.1	Reactivity of Iron-Bearing Phyllosilicates with Uranium and Chromium Through Redox Transition Zones	514
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-04ER46159 05/31/2014 Liu	SC-22.22	Engineering of Mixed Pairing and Non-Abelian Majorana States of Matter in Chiral p-wat Superconductor Sr2Ru04 and	152
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER41631 08/31/2012 Stasto	SC-26.1	QCD Description of Hadronic Interactions at High Energies	100
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER41460 11/14/2012 Gamberg	SC-26.1	Transverse Spin and Momentum Structure of Hadrons in QCD	42
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER41560 08/14/2011 Gronwall	SC-25	Lyman Alpha Emitting Galaxies at $2 < z < 3$ : Towards a Calibrated Probe of Dark Energy	0
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER41689 08/31/2012 Unlu	SC-26.2	Development of Innovative Radioactive Isotope Production Techniques at the Penn State University Radiation Science and	449
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER46531 11/14/2011 Li	SC-22.22	Studies of Interband Modes and Fermi Surface Features in Very Clean MgB2 Films	90
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER46483 12/14/2012 Schaak	SC-22.23	Chemical Routes to Intermetallic Superconductors	160
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER46222 09/14/2014 Golbeck	SC-22.23	A Hybrid Biological/Organic Half-Cell for Generating Dihydrogen	597

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46417 06/30/2013 Chen	SC-22.21	Structure and Dynamics of Domains in Ferroelectric Nanostructures - Phase Field Modeling	143
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46414 08/14/2013 Fichthorn	SC-22.23	Forces, Crystallization, and Assembly in Nanoparticle Suspensions	111
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46409 08/31/2013 Colby	SC-22.23	Conduction Mechanisms and Structure of Ionomeric Single-Ion Conductors	445
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46410 08/31/2014 Zhang	SC-22.23	Giant Electrocaloric Effect in Ferroelectric Polymers with Tailored Polar-Nanostructures	297
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER64058 05/31/2014 Verlinde, Harrington	SC-23.1	North Slope Site Scientist Team	390
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FC02-06ER64157 11/30/2011 Davis	SC-23.1	Northeastern Regional Center of the National Institute for Climatic Change Research	1,690
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER64570 06/14/2012 Harrington	SC-23.1	Parameterization and Analysis of 3-D Solar Radiative Transfer in Clouds	49
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER46656 09/14/2012 Lueking	SC-22.23	SISGR- Hydrogen Caged in Carbon-Exploration of Novel Carbon-Hydrogen Interactions	340
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER46744 08/14/2013 Jain	SC-22.22	Theory of Topological Quantum Numbers in Low Dimensions	125
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER46768 05/31/2013 Schiffer	SC-22.22	Exploration of Artificial Frustrated Magnets	175
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-02ER15332 08/31/2012 Ma	SC-22.13	Analysis of Anther Cell Differentiation	170
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-84ER13295 11/30/2012 Sen	SC-22.12	Transition Metal Mediated Transformations of Small Molecules	155
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-84ER13179 04/30/2014 Cosgrove	SC-22.13	Molecular Mechanisms of Plant Cell Wall Loosening	170
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-92ER14258 04/30/2012 Castleman, Jr.	SC-22.11	Elucidating the Molecular Level Mechanisms of Oxidation Reactions Effected by Heterogeneous Catalysts	100
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-89ER14020 04/14/2012 Maroncelli	SC-22.13	Solvation and Charge Transfer in Ionic Liquids	175

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER15911 08/31/2013 Mallouk	SC-22.13	Nanostructured Photocatalytic Water Splitting Systems	230
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-06ER15803 06/30/2012 Winograd	SC-22.12	Chemical Imaging With Cluster Ion Beams and Lasers	393
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER15675 08/31/2014 Brantley	SC-22.12	An Investigation of Roughness and Weathering at the Bedrock-Regolith Interface	252
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER15986 08/31/2014 Williams	SC-22.13	Tuning Photochemical Function of Multimetallic Assemblies Linked by Artificial Oligopeptide Scaffolds	155
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-93ER40771 12/31/2013 Strikman	SC-26.1	Theoretical Studies in High Energy Nuclear Physics	160
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER26036 12/31/2013 Du	SC-21.1	Collaborative Research: Mathematical and Numerical Analyses of Peridynamics or Multiscale Materials Modeling	50
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-90ER40577 12/31/2011 Collins	SC-25	Theoretical Studies in Elementary Particle Physics	185
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-95ER20198 08/14/2014 Ferry	SC-22.13	New Perspectives on Acetate and One-Carbon Metabolism in the Methanoarchaea: Carbonic Anhydrase	182
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-94ER20137 03/31/2012 Bryant	SC-22.13	Light Energy Transduction in Green Sulfur Bacteria	277
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-98ER20314 08/31/2013 Golbeck	SC-22.13	The Type I Homodimeric Reaction Center in <i>Heliobacterium modesticaldium</i>	590
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER25684 08/31/2011 Maranas	SC-21.1	Development of Computational Tools for Metabolic Models Curation, Flux, Elucidation and Strain Design	413
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER25926 09/14/2012 Kandemir	SC-21.1	An Optimizing Compiler for Petascale I/O on Leadership Class Architectures	139
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER25872 08/31/2012 Maranas	SC-21.1	Multiscale Simulation for Dynamics Evolution and Structure Formation in Systems Comprised of Chain Molecules	155
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER25862 08/14/2014 Berlyand	SC-21.1	Finite Dimensional Approximations for Continuum Multiscale Problems	105
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-91ER20052 07/30/2014 Daldal	SC-22.13	Membrane-Attached Electron Carriers in Photosynthesis and Respiration	237

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-88ER40479 12/31/2011 Beier	SC-26.1	The Low Energy Neutrino Physics Research Program at Penn	650
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-95ER40893 10/31/2011 Williams	SC-25	High Energy Physics Research	3,519
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER15719 12/31/2011 Sneddon	SC-22.12	Mechanistic Studies of Activated Hydrogen Release from Amine Boranes	300
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-07ER15920 08/14/2013 Rappe	SC-22.12	Understanding, Harnessing, and Tuning the Catalytic Chemistry of Nonstoichiometric Oxide Surfaces	170
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-85ER13350 05/31/2012 Gorte	SC-22.12	Thermodynamic Properties of Supported Catalysts	170
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-87ER13792 06/30/2014 Lester	SC-22.11	Intermolecular Interactions of Hydroxyl Radicals on Reactive Potential Energy Surfaces	217
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-04ER15605 08/14/2013 Vohs	SC-22.12	Fundamental Studies of the Steam Reforming of Alcohols on PdZnO and Co/ZnO Catalysts	170
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-09ER46661 09/14/2012 Kagan	SC-22.23	SISGR - Bi-Continuous Multi-Component Nanocrystal Superlattices for Solar Energy Conversion	1,031
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER46223 09/14/2014 Dutton	SC-22.23	Modular Designed Protein Constructions for Solar Generated H2 From Water	245
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-07ER46431 08/14/2013 Rappe	SC-22.22	First-principles Investigations of the Physics of New Semiconducting Ferroelectrics for Solar Light Absorption and Carrier Separation	250
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-08ER46522 08/14/2013 Yildirim	SC-22.21	From Fundamental Understanding to Predicting New Nanomaterials for High-Capacity Hydrogen Storage	300
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-84ER45118 01/31/2012 Mele	SC-22.22	Electronic and Piezoelectric Phenomena in Nanostructures	105
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER46199 04/30/2013 Liu	SC-22.22	Anharmonic and Thermal Effects Associated with Jammed Solids	120
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-98ER45702 06/30/2013 Vitek	SC-22.22	Combined Atomistic and Mesoscopic Study of Deformation of Body-Centered-Cubic Transition Metals: Effects of Alloying and Magnetism	275
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-00ER45813 05/31/2014 Bonnell	SC-22.21	Local Properties at Nanosized Interfaces and Defects	135

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-99ER45780 12/14/2011 Snoke	SC-22.22	Indirect Excitons in Coupled Quantum Wells: New Studies with Dark Excitons	119
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-90ER45438 11/30/2011 Balazs	SC-22.23	Designing Colonies of Communicating Microcapsules that Exhibit Collective Behavior	120
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-02ER45998 11/14/2011 Balazs	SC-22.23	Theoretical Modeling, Synthesis and Characterization of Self-Healing Coatings	293
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-10ER41656 04/14/2015 Newman	SC-25	RECOVERY ACT: Overcoming Photometric Redshift Systematics in Dark Energy Experiments	600
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-07ER46446 07/31/2012 Yang	SC-22.21	Multiscale Atomistic Simulation of Metal-Oxygen Surface Interactions: Methodological Development, Theoretical Investigation, and Correlation with	0
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-08ER46545 07/14/2014 Wiezorek	SC-22.21	Electron Density Determination, Bonding and Properties of Tetragonal Ferromagnetic Intermetallics	150
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-07ER46421 12/14/2011 Levy	SC-22.22	Development of Spintronic Bandgap Materials	0
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-07ER46430 08/31/2013 Waldeck	SC-22.22	Nanocrystal-Based Dyads for Solar to Electric Energy Conversion	260
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-09ER46662 09/14/2012 Kumta	SC-22.23	SISGR - Fundamental Experimental and Theoretical Studies on a Novel Family of Oxides Catalyst Supports for Water Electrolysis	250
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-08ER46586 07/31/2012 Liang	SC-23.1	The Role of Vegetation, Surface, and Subsurface Processes on Mega Drought and its Implications to Climate Change	102
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-00ER15066 06/30/2012 Jordan	SC-22.11	Coordinating Experiment and Theory to Understand How Excess Electrons Are Accomodated by Water Networks Through Model Studies in the Cluster Regime	217
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-09ER16056 08/14/2012 Petek	SC-22.11	Studies of Surface Adsorbate Electronic Structure and Femtochemistry at the Fundamental Length and Time Scales	651
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-10ER16165 05/31/2013 Johnson	SC-22.11	Computational Design of Metal Organic Frameworks for Photocatalytic Reduction of CO2	71
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-91ER40646 10/31/2011 Paolone, Shepard	SC-25	Experimental Particle Physics	1,006
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-00ER41135 11/30/2013 Swanson	SC-26.1	Studies of the Quark and Gluon Structure of Nuclear and Hadronic Matter	97

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-04ER25618 06/30/2014 Yotov	SC-21.1	Modeling and Simulation of Coupled Complex Multiscale Subsurface Phenomena	81
SUSQUEHANNA UNIVERSITY Selinsgrove, PA	DE-FG02-10CH20003 06/30/2011 Clarke	SC-23	Equipment Purchases for Susquehanna University's New Science Center	972
SWARTHMORE COLLEGE Swarthmore, PA	DE-FG02-00ER54604 11/30/2013 Brown	SC-24.2	Relaxation of Three-Dimensional Magnetic Structures: SSX Experiments and Experimentally-Validated Simulations	207
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-94ER40844 03/31/2012 Meziani	SC-26.1	Nuclear Research Using the Electromagnetic Probe	347
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-05ER25672 12/31/2011 Szyld	SC-21.1	Krylov Subspace and Schwarz Methods for PDEs, Control, and Other Problems	180
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-09ER16000 12/14/2011 Wayland	SC-22.12	Catalytic Hydrogenation of Carbon Monoxide and Hydrocarbon Oxidations	100
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-08ER15983 02/14/2014 Matsika	SC-22.11	Combining High Level Ab Initio Calculations with Laser Control of Molecular Dynamics	80
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-96ER14644 11/30/2011 Strongin	SC-22.12	Reactivity of Iron-Bearing Minerals and CO2 Sequestration: A Multi-Disciplinary Experimental Approach	96
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-10ER46710 06/14/2013 Iavarone	SC-22.21	Vortex Matter in Confined Superconductors and Mesoscopic Hybrid Heterostructures	205
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-10ER46694 01/31/2012 Xi	SC-22.22	Raman Spectroscopic Study of Coupling Between Magnetic and Ferroelectric Orders in Nanoscaled Thin Films Superlattices	193
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-01ER45872 01/31/2014 Riseborough	SC-22.22	Strongly Correlated Electron Systems	75
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-10ER41646 06/14/2013 Xi	SC-25	RECOVERY ACT: SRF-Magnesium Diboride Thin Films for Superconducting RF Cavities	800
Total for PA :				39,124

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## Listing of Active Awards for State (PR)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
PUERTO RICO, UNIVERSITY OF Mayaguez, PR	DE-FG02-97ER41045 05/31/2013 Lopez	SC-25	UPR/Mayaguez High Energy Physics	322
PUERTO RICO, UNIVERSITY OF San Juan, PR	DE-FG02-08ER46526 08/31/2014 Katiyar	SC-22.21	Development and Understanding of Multifunctional Nanostructures for Spintronics and Magnetoelectrics Applications	490
Total for PR :				812

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Listing of Active Awards for State (RI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER64807 08/31/2011 Weber	SC-23.2	Fuel Cell Research	1,458
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER64757 05/14/2012 Lawrence	SC-23.2	Bayesian Computational Approaches for Gene Regulation Studies of Bioethanol and Biohydrogen Production	130
BROWN UNIVERSITY Providence, RI	DE-FG02-03ER15452 10/31/2012 Weber	SC-22.11	Spectroscopic and Dynamical Studies of Highly Energized Small Polyatomic Molecules	145
BROWN UNIVERSITY Providence, RI	DE-FG02-08ER15937 06/30/2014 Rose-Petruck	SC-22.11	Spatial Frequency X-ray Heterodyne Imaging of Micro and Nano structured Materials and their Time-resolved Dynamics	140
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER16011 04/14/2012 Diebold	SC-22.12	Ultrasonic Distillation, Thermal Diffusion, and Photoacoustics	135
BROWN UNIVERSITY Providence, RI	DE-FG02-91ER40688 10/31/2012 Cutts	SC-25	A Research Program in Theoretical and Experimental High Energy Physics	2,093
BROWN UNIVERSITY Providence, RI	DE-FG02-98ER25346 08/28/2011 Hesthaven	SC-21.1	Parallel High Order Accuracy Methods (Deterministic and Stochastic) Applied to Non-Linear Equations	149
BROWN UNIVERSITY Providence, RI	DE-FG02-07ER25818 08/31/2013 Karniadakis	SC-21.1	Stochastic Analysis of Advection-Diffusion-Reactive Systems with Applications to Reactive Transport in Porous Media	99
BROWN UNIVERSITY Providence, RI	DE-FG02-08ER25863 08/14/2014 Shu	SC-21.1	High Order Discontinuous Galerkin Method and Applications	156
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER25891 08/31/2012 Dupuis	SC-21.1	Large Deviation Methods for the Analysis and Design of Monte Carlo Schemes in Physics and Chemistry	0
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER25923 09/14/2012 Karniadakis	SC-21.1	Stochastic Nonlinear Data-reduction Methods with Detection and Prediction of Critical Rare Event	99
BROWN UNIVERSITY Providence, RI	DE-FG02-01ER45913 11/30/2011 Chason	SC-22.23	Mechanisms of Sputter Ripple Formation: Coupling Among Energetic Ions, Surface Kinetics, Stress and Composition	124
BROWN UNIVERSITY Providence, RI	DE-FG02-07ER46387 12/31/2013 Nurmikko	SC-22.22	Optically Active 3-Dimensional Semiconductor Quantum DOT Assemblies in Heterogeneous Nanoscale Hosts	0
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER46644 09/14/2012 Nurmikko	SC-22.21	Optoacoustic Microscopy for Investigation of Material Nanostructures - Embracing the Ultrasmall, Ultrafast, and the Invisible	200
BROWN UNIVERSITY Providence, RI	DE-FG02-10ER46771 08/31/2013 Sheldon	SC-22.22	Understanding and Controlling Toughening Mechanisms in Nanotube Reinforced Ceramic Coatings	220

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16185 08/31/2011 Benning	SC-22.13	2011 Plant Lipids: Structure, Metabolism & Functions, January 30 - February 4, 2011	7
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16187 09/14/2011 Wang	SC-22.11	2011 GRC on Clusters, Nanocrystals & Nanostructures, July 24-29, 2011	7
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16188 09/14/2011 Anderson	SC-22.11	2011 Gaseous Ions Gordon Research Conference, Feb 27 - Mar 4, 2011, Galveston, TX	7
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16172 07/14/2011 Wilks	SC-22.13	Chemistry and Biology of Tetrapyrroles Gordon Research Conference, July 25-30, 2010	5
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16173 07/14/2011 Martinez	SC-22.11	2010 GRC Atomic and Molecular Interactions 7/18 - 7/23	8
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16183 07/14/2011 Sussman	SC-22.13	2010 Plant Molecular Biology Gordon Research Conference, July 18-23, 2010	7
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-10ER16163 04/30/2011 Lockemeyer	SC-22.12	2010 Inorganic Chemistry Gordon Conference June 20 - 25, 2010	10
RHODE ISLAND, UNIVERSITY OF Kingston, RI	DE-FG02-10ER46736 08/14/2013 Lucht	SC-22.21	Improving the Calendar Life and Safety of Lithium Ion Batteries: Development of Novel Electrolytes and Additives	545
RHODE ISLAND, UNIVERSITY OF Kingston, RI	DE-FG02-10ER65047 09/14/2012 Rothstein	SC-23.2	Unviersity of Rhode Island Regional Earth System Center	729
Total for RI :				6,473

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
CITADEL, THE Charleston, SC	DE-FG02-10ER41694 08/14/2013 Yost	SC-25	Precision Studies of Hadronic and Electro-Weak Interactions for Collider Physics	28
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-07ER46364 01/31/2012 Ogale	SC-22.21	Surface Anchoring of Nematic Phase on Carbon	0
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-06ER46342 08/14/2013 Chumanov	SC-22.23	Asymmetric Hybrid Nanoparticles (AHNs)	154
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-07ER46456 12/31/2011 Perahia	SC-22.21	From Interfacial Region on Ionic Polymers, Experimental-Computational Studies	100
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-08ER46511 03/14/2012 Luo	SC-22.21	Grain Boundary Complexions and Transitions in Doped Silicon	95
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-05ER15718 06/14/2011 Creager	SC-22.12	Fluoropolymers, Electrolytes, Composites and Electrodes	250
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-10ER64966 06/14/2013 Powell	SC-23.1	Development of a Self-Consistent Model of Plutonium Sorption: Quantification of Sorption Enthalpy and Ligand-Promoted	334
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-09ER64920 09/28/2012 Bottum	SC-23.2	Clemson University CyberInstitute	486
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-09ER64853 08/14/2012 Moysey	SC-23.1	Quantifying Microbe-Mineral Interactions Leading to Remotely Detectable Induced Polarization Signals: Implications for	32
MORRIS COLLEGE Sumter, SC	DE-FG02-10CH20025 09/29/2013 Ali	SC-23	STEM Infrastructure Improvement	1,458
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-95ER40910 05/31/2013 Rosenfeld, Purohit	SC-25	Experimental Particle Physics	754
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-09ER41621 07/31/2012 Gudkov	SC-26.1	Fundamental Neutron Physics: Theory and Analysis	102
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-99ER45763 04/14/2014 Kunchur	SC-22.22	Dissipative and Fast-Timescale Phenomena in Superconductors	99
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-09ER46616 08/14/2012 Wang	SC-22.21	1D and 2D Assembly of Bionanoparticles for Materials Development	15
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-09ER46617 08/14/2012 Vogt	SC-22.21	Structure-Composition-Property Relationships of Complex Bismuth Oxide Base Photocatalysts	10

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-09ER46581 07/31/2014 Reifsnider	SC-22.13	Science Based Nano-Structure Design and Synthesis of Heterogeneous Functional Materials for Energy Systems -- EFRC	2,355
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-07ER64431 07/14/2011 Ju	SC-23.1	New Grid and Discretization Technologies for Ocean and Ice Simulations	36
WOFFORD COLLEGE Spartanburg, SC	DE-FG02-09ER64802 07/31/2011 Savage	SC-23.1	Uranium Attenuation and Release in Porous Media Related to Geochemical Gradients	62
Total for SC :				6,370

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 Listing of Active Awards for State (SD)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
DAKOTA SCHOOL OF MINES & TECH. Rapid City, SD	DE-FG02-08ER46503 06/30/2012 Ahrenkiel	SC-22.21	Lattice-Mismatched III-V Epilayers for High-Efficiency Photovoltaics	15
SOUTH DAKOTA, UNIVERSITY OF Vermillion, SD	DE-FG02-10ER41718 08/31/2013 Guisepe	SC-26.1	Cosmogenic Background and Shielding R&D for a Ge Neutrinoless Double-Beta Decay Experiment	69
SOUTH DAKOTA, UNIVERSITY OF Vermillion, SD	DE-FG02-10ER46709 06/30/2013 Mei	SC-22.21	Crystal Growth and Detector Development at Homestake for DUSEL Experiments	2,378
SOUTH DAKOTA, UNIVERSITY OF Vermillion, SD	DE-FG02-08ER64624 12/31/2012 Hoefelymeyer	SC-23.2	USD Catalysis Group for Alternative Energy	0
Total for SD :				2,462

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Listing of Active Awards for State (TN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
TION INTERNATIONAL ASSOC INC. Oak Ridge, TN	DE-FG02-10ER46715 07/14/2013 Coppock	SC-22.21	Exploiting the Use of Social Networking to Facilitate Collaboration in the Scientific Community	554
MEMPHIS, UNIVERSITY OF Memphis, TN	DE-FG02-09ER25904 08/31/2012 Wu	SC-21.1	Towards a Scalable and Adaptive Application Support Platform for Large-Scale Distributed E-Sciences in High-Performance Network Environments	0
MIDDLE TENNESSEE STATE UNIV. Murfreesboro, TN	DE-FG02-10ER65002 09/14/2012 MacDougall	SC-23.2	Computational Modeling of Drug-Resistant Bacteria	889
SPECTRA TECH, INC. Oak Ridge, TN	DE-AC02-09CH11469 04/30/2012 Hale	SC-22.21	Technical Support Service for the Office of Science (SC) Basic Energy Sciences (BES)	57
TENNESSEE TECH. UNIVERSITY Cookeville, TN	DE-FG02-96ER40955 02/28/2014 Kozub	SC-26.1	Nuclear Physics with Radioactive Ion Beams	58
TENNESSEE TECH. UNIVERSITY Cookeville, TN	DE-FG02-89ER40530 03/31/2013 Ayik	SC-26.1	Studies of Fluctuation Processes in Nuclear Collisions	37
TENNESSEE, U. OF HEALTH SC. CTR. Memphis, TN	DE-FG02-08ER64698 09/14/2011 Kabalka	SC-23.2	Development of Solid State Reagents for Preparing Radiolabeled Imaging Agents	0
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-91ER40627 03/31/2013 Kamyshkov	SC-25	Elementary Particle Interactions	786
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-96ER40963 02/14/2014 Nazarewicz	SC-26.1	Theoretical Nuclear Structure	192
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-03ER41258 04/30/2012 Greene	SC-26.1	Fundamental Neutron Physics	510
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-06ER41407 12/31/2011 Papenbrock	SC-26.1	JUSTIPEN: Japan US Theory Institute for Physics with Exotic Nuclei	50
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-96ER40982 05/31/2014 Sorensen	SC-26.1	Studies of Hot and Dense Nuclear Matter	285
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-96ER40983 02/28/2014 Grzywacz, Jones, Bingham, Riedinger	SC-26.1	Nuclear Spectroscopic Studies with Radioactive and Stable Ion Beams	400
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-06ER25748 09/14/2011 Dongarra	SC-21.1	Coordinated Fault Tolerance for High Performance Computing	200
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-96ER20223 07/14/2012 von Arnim	SC-22.13	Eukaryotic Initiation Factor 3 (EIF3) and 5' mRNA Leader Sequences as Agents of Translational Regulation in Arabidopsis	175

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TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-06ER25778 12/14/2011 Huang	SC-21.1	SciDAC Institute for Ultra-Scale Visualization	100
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-06ER25761 12/14/2012 Dongarra	SC-21.1	Performance Engineering Research Center (PERC-3) SciDAC Center for Enabling Technology	385
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-08ER25845 07/14/2011 Dongarra	SC-21.1	Minimizing System Noise Effects for Extreme Scale Scientific Simulation Through Function Delegation	221
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-07ER25801 11/14/2011 Dongarra	SC-21.1	SciCET: Center for Scalable-Performance Application Development Software	135
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER25971 03/14/2013 Dongarra	SC-21.1	Architecture-Aware Algorithms for Scalable Performance and Resilience on Heterogeneous Architectures	150
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER25987 08/31/2013 Dongarra	SC-21.1	Matrix Algebra for GPU and Multicore Architectures (MAGMA) for Large Petascale Systems	150
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-01ER15259 10/31/2011 Barnes	SC-22.12	Nanostructured Metal Oxide Catalysts via Building Block Syntheses	125
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-02ER15283 02/28/2014 Macek	SC-22.11	Theory of Atomic Collisions and Dynamics	125
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-05ER15723 06/14/2012 Keffer	SC-22.12	A Computational and Experimental Investigation into the Transport Through of Protons near the Electrolyte/Water, Electrolyte/Catalyst and	310
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER41715 08/31/2013 Efremenko	SC-26.1	Search for the Neutrinoless Double Beta Decay	80
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER41700 08/31/2013 Nazarewicz	SC-26.1	FUSTIPEN - France-U.S. Theory Institute for Physics with Exotic Nuclei	35
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-09ER41634 08/31/2012 Grzywacz-Jones	SC-26.1	Spectroscopic Studies Close to 100Sn and 132Sn Using Direct Reactions and Gamma-Ray Measurements	100
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-09ER41583 11/30/2011 Nazarewicz	SC-26.1	Building a Universal Nuclear Energy Density Functional	260
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-01ER45885 07/31/2012 Musfeldt	SC-22.22	Spectroscopic Investigations of Novel Electronic and Magnetic Solids	135
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-05ER46202 05/14/2014 Dai	SC-22.21	Study Magnetic Excitations in Doped Transition Metal Oxides Using Inelastic Neutron Scattering	197

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TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-08ER46528 05/31/2012 Egami	SC-22.21	Neutron Scattering Research Network for EPSCoR States	354
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-07ER46370 05/14/2012 Eguiluz	SC-22.22	Predictive Capability for Strongly Correlated Systems: Mott Transition in MnO, Multielectron Magnetic Moments, and Dynamic Effects in Correlated Materials	0
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-07ER46363 01/31/2012 Langston	SC-22.21	Scalable Computational Methods for the Analysis of High-Throughput Biological Data	0
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER46713 06/30/2013 Camden	SC-22.21	Plasmon Mapping in Metallic Nanostructures and its Application to Single Molecule Surface Enhanced Raman Scattering: Imaging Electromagnetic Hot-Spots and .....	420
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER46718 07/31/2013 Grossbeck	SC-22.21	Study of Compatibility of Stainless Steel Weld Joints with Liquid Sodium-Potassium Coolants for Fission Surface Power	534
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER65062 08/31/2013 Smith	SC-23.1	Molecular Mechanisms of Bacterial Mercury Transformation	374
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER65016 07/31/2012 Loeffler	SC-23.1	MURMoT: Design and Application of Microbial Uranium Reduction Monitoring Tools	230
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-10ER65014 06/30/2013 Pffnner	SC-23.1	Metaproteomics Identifies the Protein Machinery Involved in Metal and Radionuclide Reduction in Subsurface Microbiomes and Elucidates Mechanisms and	307
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-08ER64667 09/14/2011 Chen	SC-23.2	Development of Genomic and Genetic Tools for Foxtail Millet, and Use of These Tools in the Improvement of Biomass Production	85
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-88ER40407 12/31/2012 Hamilton, Ramayya	SC-26.1	Experimental Nuclear Physics	350
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-85ER40226 05/31/2014 Weiler, Kephart	SC-25	Theoretical Investigations in Elementary Particle Physics	260
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-92ER40712 02/28/2013 Maguire	SC-26.1	Relativistic Heavy Ion Experimental Physics	550
VANDERBILT UNIVERSITY Nashville, TN	DE-FC02-06ER41447 09/14/2011 Bapty	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	77
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-96ER40975 05/31/2013 Umar, Oberacker, Ernst	SC-26.1	Microscopic Heavy-Ion Theory	160
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-01ER45916 03/14/2014 Haglund	SC-22.22	Linear and Nonlinear Optical Properties of Metal Nanocomposite Materials	190

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VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-99ER45781 10/31/2013 Tolk	SC-22.22	Ultrafast Studies of Hydrogen and Related Defects in Semiconductors and Oxides	175
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-10ER41713 08/14/2013 Maguire	SC-26.1	Meeting the Computing Needs of the CMS-HI Research Program in the U.S.	1,740
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-05ER46239 08/31/2011 Jennings	SC-22.23	Surface-Directed Fabrication of Integrated Membrane-Electrode Interfaces	100
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-09ER46554 02/14/2012 Pantelides	SC-22.21	Physics of Complex Materials Systems Through Theory and Microscopy / EELS	256
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-09ER64872 09/14/2012 Peterson	SC-23.2	Small Animal SPECT/CT System Based on Position-Sensitive Semiconductor Detectors	0
Total for TN :				12,863

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
ABILENE CHRISTIAN UNIVERSITY Abilene, TX	DE-FG02-03ER41243 05/14/2012 Isenhower	SC-26.1	The Spin and Anti-Quark Structure of the Nucleon	197
BAYLOR UNIVERSITY Waco, TX	DE-FG02-05ER41399 05/31/2012 Dittmann	SC-25	Elementary Particle Physics at Baylor	120
BAYLOR UNIVERSITY Waco, TX	DE-FG02-10ER41692 08/14/2013 Wang	SC-25	Horava-Lifshitz Theory and Applications to Cosmology and Astrophysics	40
FOURTH STATE RESEARCH Austin, TX	DE-FG02-08ER54978 02/14/2014 Bravenec	SC-24.2	A Systematic Method for Verification and Validation of Gyrokinetic Microstability Codes	50
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-07ER41518 08/14/2013 Lau	SC-25	A Proposal to Measure the Neutrino Mixing Angle Theta_13 in the Daya Bay Experiment	155
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-07ER41521 08/14/2013 Bellwied, Pinsky	SC-26.1	Selected Problems in Relativistic Heavy Ion Physics in ALICE at the LHC	0
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-08ER46486 07/31/2012 Reiter	SC-22.21	Neutron Compton Scattering as a Probe of Hydrogen Bonded (and other) Systems	141
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-09ER46571 02/28/2013 Jacobson	SC-22.23	Enhanced Mixed Electronic-Ionic Conductors Through Cation Ordering	400
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-09ER55042 08/14/2012 Economou	SC-24.2	Pulsed Plasma With Synchronous Boundary Voltage for Rapid Atomic Layer Etching	244
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-10ER46747 08/31/2013 Halasyamani	SC-22.23	Controlling Magnetic and Ferroelectric Order Through Geometry: Synthesis, Ab Initio Theory, and Characterization of New Multi-Ferroic Fluoride Materials	348
HOUSTON, UNIVERSITY OF Houston, TX	DE-FC02-06ER25759 09/14/2011 Chapman	SC-21.1	Center for Programming Models for Scalable Parallel Computing	200
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-07ER15888 06/30/2014 Thummel	SC-22.13	Further Studies on Photocatalytic Water Decomposition	196
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-10ER16175 08/31/2013 Cheung	SC-22.11	Multiscale Investigation of Thermal Fluctuations on Solar-Energy Conversion	82
ATIONAL BUSINESS MACHINES CORP Austin, TX	DE-FG02-08ER25851 08/14/2011 Van Hensbergen	SC-21.1	HARE-Holistic Aggregated Resource Environment for Million-CPU Systems	199
NATIONAL AERONAUT & SPACE ADM Houston, TX	DE-AI02-10ER64969 05/14/2013 Cucinotta	SC-23.2	Systems Biology Model of Interactions Between Tissue Growth Factors and DNA Damage Pathways: Low Dose Response and	122

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				FY 2010
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-10ER16147 04/14/2013 Cooke	SC-22.12	Experimentally Characterizing the Electronic Structures of f-Electron Systems Using Advanced High Resolution Fourier Transform Microwave Spectroscopies	65
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-05ER15647 08/31/2014 Chapman	SC-22.13	Amidase-Mediated Modulation of N-Acylethanolamine (NAE) Signaling Pathway in Plants	253
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-04ER15508 12/31/2012 Bagus	SC-22.12	The Influence of Reaction Pathways on the Reduction of U(VI) to U (IV): The Role of the Intermediate U (V) Species	69
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-03ER15387 05/14/2014 Cundari	SC-22.12	Modeling of Late Transition Metal Catalysts for Energy Applications	100
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-06ER46312 04/30/2012 Krokhin	SC-22.22	Effective Medium Theory for Periodic Composites	110
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-06ER54883 07/14/2012 Ordonez	SC-24.2	Experimental and Theoretical Study of the Plasma Physics of Antihydrogen Generation and Trapping	46
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-09ER64812 07/31/2012 Chapman	SC-23.2	Engineering Neutral Lipid Accumulation in Vegetative Tissues of Plants	217
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-08ER64603 07/31/2013 Wilson	SC-23.2	Environmental and Energy Research at the Texas Center for Advanced Scientific Computing and Modeling (CASCaM)	680
PRAIRIE VIEW A&M RES FOUND Prairie View, TX	DE-FG02-97ER54452 01/31/2012 Boyd	SC-24.2	The Institute for High Heat Flux Removal: Phase II	201
PRAIRIE VIEW A&M RES FOUND Prairie View, TX	DE-FG02-04ER54777 12/14/2011 Huang	SC-24.2	Study of Rotamak Plasmas	458
ROPORTIONAL TECHNOLOGIES, INC. Houston, TX	DE-FG02-08ER64679 09/14/2011 Lacy	SC-23.2	New PET Scanner for Molecular Imaging Based on Innovative Straw Detector Technology	0
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER55032 08/14/2012 Liang	SC-24.2	Relativistic Plasma Physics Using Ultra-Intense Lasers	346
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-10ER41666 12/31/2012 Geurts	SC-26.1	Experimental Relativistic Heavy Ion Physics	414
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-06ER46337 06/14/2012 Natelson	SC-22.22	Nanostructure Studies of Strongly Correlated Materials	130
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-06ER46274 02/14/2014 Du	SC-22.22	Experiments on Quantum Hall Topological Phases at Ultra-Low Temperatures	140

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RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-06ER46308 07/31/2012 Kono	SC-22.22	Spectroscopy of Degenerate One-Dimensional Electrons in Carbon Nanotubes	150
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER46598 08/14/2013 Yakobson	SC-22.23	The Dawn of Boron Fullerenes: Key Issues of Stability and Synthetic Routes	250
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FC02-06ER25762 12/14/2011 Mellor-Crummey	SC-21.1	Performance Engineering Research Center (PERC3)	300
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FC02-06ER25754 09/14/2011 Mellor-Crummey	SC-21.1	Center for Programming Models for Scalable Parallel Computing	400
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FC02-07ER25800 11/14/2012 Mellor-Crummey	SC-21.1	Center for Scalable Performance Application Development Software	1,260
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER25931 09/14/2012 Mellor-Crummey	SC-21.1	Correctness Tools for Petascale Computing	115
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER25920 08/31/2012 Jermaine	SC-21.1	The MCDB System for Management and Analysis of Petabyte-Scale Uncertain Data	200
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-97ER41031 04/30/2013 Padley, Roberts, Corcoran	SC-25	High Energy Physics	844
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER16053 07/31/2012 Scuseria	SC-22.11	Accurate Band Gaps for Tailor-Made Photovoltaic Materials	415
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-03ER15456 09/14/2012 Deem	SC-22.12	Towards Rational, Nanoscale Control of Catalysis: A Fundamental Study of Zeolite Structure and Nucleation	165
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-04ER15523 04/14/2013 Scuseria	SC-22.12	Accurate Theoretical Approaches for Studying Actinides and Other Heavy Elements in Solid State	135
SOUTHERN METHODIST UNIVERSITY Dallas, TX	DE-FG02-09CH11579 08/31/2011 Quick	SC-23	Creation of the Parallel Computing Center at Southern Methodist University	0
SOUTHERN METHODIST UNIVERSITY Dallas, TX	DE-FG02-04ER41299 02/14/2013 Stroynowski	SC-25	High Energy Physics	973
SOUTHERN METHODIST UNIVERSITY Dallas, TX	DE-FG02-10ER41662 04/14/2015 Nadolsky	SC-25	RECOVERY ACT - Integrated Analysis of Particle Interactions at Hardon Colliders	600
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-08ER64620 07/31/2012 Chang	SC-23.1	Searching for Atlantic Thermohaline Circulation Strength Threshold Leading to Abrupt Change of the African Monsoon	131

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TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-09ER64766 06/30/2012 Schumacher	SC-23.1	Radiative Heating Associated with Tropical Convective Cloud Systems: Its Importance at Meso and Global Scales	76
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER65091 08/31/2013 Saravanan	SC-23.1	Modulation of Extremes in the Atlantic Region by Modes of Climate Variability/Change: A Mechanistic Coupled	430
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-08ER64567 10/31/2011 Santschi	SC-23.1	Collaborative Research: Biogeochemical and Microbial Controls of Iodine-129 Mobility in Groundwater Relevant to Long-Term Stewardship of DOE Sites	243
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-07ER64443 07/31/2011 Saravanan	SC-23.1	Hierarchical Coupled Modeling and Prediction of Regional Climate Change in the Atlantic Sector	193
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-06ER46278 03/14/2012 Pokrovsky	SC-22.22	Theory of Magnetic Heterostructures on the Nanometer Scale	148
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-07ER46450 08/14/2013 Lyuksyutov	SC-22.22	Emergent Behavior in Magnet-Superconductor Hybrids	150
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-02ER45999 09/14/2014 Dunbar	SC-22.23	Molecular Magnets Based on a Modular Approach: Investigation of Coupling, Anisotropy and Electronic Factors on Bistability	225
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-07ER41485 06/14/2013 Mioduszewski	SC-26.1	Toward Understanding the QGP with the STAR Experiment at RHIC	238
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER41699 08/31/2011 White	SC-25	Development of Quartz Structures for Ultralow Background High Pressure Phototubes	50
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER41650 06/14/2013 McIntyre	SC-25	RECOVERY ACT: SRF-Test Cavity to test SRF materials to and beyond the BCS Limit	469
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER41655 04/14/2015 Mahapatra	SC-25	RECOVERY ACT: Ton Scale Germanium: Beyond Zeptobarn WIMP Cross-section	600
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER41682 05/31/2013 Fries	SC-26.1	Proposal for a Topical Collaboration on Quantitative Jet and Electromagnetic Tomography (JET) of Extreme Phases of	45
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER41680 05/31/2015 Zhanov	SC-26.1	Advancing the Theory of Nuclear Reactions with Rare Isotopes: From the Laboratory to the Cosmos	27
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-03ER15420 11/14/2012 Clearfield	SC-22.12	The Synthesis, Structures, and Chemical Properties of Macrocyclic Ligands Covalently Bonded into Layered Arrays	120
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-04ER15520 03/31/2013 Russell	SC-22.12	Development of Ionization Methods and Structural Imaging MS	340

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TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-95ER14511 12/31/2013 Goodman	SC-22.12	The Physical and Chemical Properties of Nanostructured Mixed-Metal Catalysts	220
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER26027 08/31/2013 Efendiev	SC-21.1	Bayesian Uncertainty Quantification in Predictions of Flows in Highly Heterogeneous Media and Its Applications to the CO2 Sequestration	249
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-09ER25949 09/14/2012 Rojas	SC-21.1	Topology for Statistical Modeling of Petascale Data	87
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER16201 09/14/2013 Ozerov	SC-22.12	New Horizons in C-F Activation by Main Group Electrophiles	143
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-06ER25727 03/31/2014 Efendiev	SC-21.1	Multiscale Analysis and Computation for Flows in Heterogeneous Media	0
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-06ER41405 11/30/2013 McIntyre	SC-25	New Technology for Future Colliders	2,366
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-95ER40917 04/30/2013 Webb, Nanopoulos, Kamon, McIntyre	SC-25	High Energy Physics Research at Texas A&M University	1,183
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-93ER40765 11/30/2011 Tribble, Gagliardi	SC-26.1	QCD and Standard Model Studies	265
TEXAS A&M UNIVERSITY College Station, TX	DE-FG02-93ER40773 12/31/2013 Tribble	SC-26.1	Texas A&M University Cyclotron Institute Research Plan	2,950
TEXAS A&M UNIVERSITY College Station, TX	DE-FG02-10ER41705 08/31/2013 Tribble	SC-26.2	Breakup of Loosely Bound Nuclei at Intermediate Energies for Nuclear Astrophysics and the Development of a Position Sensitive Microstrip Detector	325
TEXAS A&M UNIVERSITY Commerce, TX	DE-FG02-08ER41533 01/14/2014 Bertulani	SC-26.1	Reactions With Rare Isotopes	60
TEXAS A&M UNIVERSITY Commerce, TX	DE-FC02-09ER41588 11/30/2011 Bertulani	SC-26.1	Building a Universal Nuclear Energy Density Functional	48
TEXAS A&M UNIVERSITY Commerce, TX	DE-FG02-10ER41706 08/31/2013 Bertulani	SC-26.2	Breakup of Loosely Bound Nuclei at Intermediate Energies for Nuclear Astrophysics and the Development of a	147
TEXAS A&M UNIVERSITY Commerce, TX	DE-FG02-09ER64836 08/31/2012 Saffer	SC-23.2	The Development of an Artificial Science and Engineering Research Infrastructure to Facilitate Innovative Computational Modeling, Analysis, and Application...	291
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-00ER15034 01/31/2013 Datta-Gupta	SC-22.12	Time-Lapse Seismic Monitoring and Performance Assessment of CO2 Sequestration in Hydrocarbon Reservoirs	215

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TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-05ER15729 12/14/2011 Balbuena	SC-22.12	Theory-Guided Design of Nanoscale Multi-Metallic Catalysts For Fuel Cells	200
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-06ER15836 08/31/2012 Balbuena	SC-22.12	Modeling Catalyzed Growth of Single-Wall Carbon Nanotubes	106
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-08ER64644 02/29/2012 Kaihatu	SC-23.1	Collaborative Proposal: Climate-Induced Changes in Hurricane Winds, Surge, and Risk to Electric Power Systems	100
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-94ER14416 12/31/2011 Bartsch	SC-22.12	New Proton-Ionizable, Calixarene-Based Ligands for Selective Metal Ion Separations	125
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-95ER40938 02/29/2012 Wigmans	SC-25	Experimental Particle Physics Research	647
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-99ER20346 08/31/2014 Knaff	SC-22.13	Ferredoxin-Dependent Plant Metabolic Pathways	313
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-09ER25889 08/31/2012 Long	SC-21.1	Quantifying Prediction Fidelity in Multiscale Multiphysics Simulations	73
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-09ER46552 11/30/2011 Jiang	SC-22.22	Optical and Electrical Properties of III-V Nitrides and Related Materials	157
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-09ER46638 09/14/2012 Lichti	SC-22.22	SISGR - MuSR Studies of Magnetic Semiconductors for Spintronics Applications	210
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-05ER46218 01/31/2012 McKenna	SC-22.23	Cyclic Macromolecules: Dynamics and Nonlinear Rheology	180
EXAS, UNIV. OF HEALTH SC. CTR. Houston, TX	DE-FG02-07ER15867 05/14/2012 Spudich	SC-22.13	Folding and Function of Proteorhodopsins in Photoenergy Transducing Membranes	0
EXAS, UNIV. OF HEALTH SC. CTR. Houston, TX	DE-FG02-08ER64712 09/14/2011 Ferrari	SC-23.2	Alliance for NanoHealth (ANH) Training Program for the Development of Future Generations of Interdisciplinary	0
EXAS, UNIV. OF HEALTH SC. CTR. San Antonio, TX	DE-FG02-09ER64799 07/14/2012 Yuan	SC-23.2	The c-Abl Signaling Network in the Radio-Adaptive Response	357
UNIV. OF SOUTHWESTERN MED. CTR Dallas, TX	DE-FG02-09ER64789 06/30/2012 Boothman	SC-23.2	Low Dose IR Activation of TGF-Beta 1-IGF-1-sCLU In Vivo: Mechanisms, Functions of a Changing Microenvironment	475
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-08ER25860 08/14/2012 Ghattas	SC-21.1	Large-Scale Optimization for Bayesian Inference in Complex Systems	151

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER25914 08/31/2012 Ghattas	SC-21.1	Uncertainty Quantification for Large-Scale Ice Sheet Modeling and Simulation	343
TEXAS, UNIVERSITY OF Austin, TX	DE-FC02-06ER25782 12/14/2011 Ghattas	SC-21.1	Towards Optimal Petascale Simulations (TOPS)	80
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER25617 06/30/2014 Wheeler	SC-21.1	Modeling and Simulation of Coupled Complex Multiscale Subsurface Phenomena	194
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-94ER40845 03/31/2012 Hoffmann	SC-26.1	Studies in High Energy Heavy Ion Nuclear Physics	656
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-96ER40954 01/14/2014 Downer	SC-25	Laser Wakefield Acceleration: Channeling, Seeding, and Diagnostics	294
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-93ER40757 12/31/2011 Ritchie, Lang, Schwitters, Kopp,	SC-25	Research in High Energy Physics	883
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER41321 01/31/2012 Shvets	SC-25	Investigations of the Plasma and Structure-Based Particle Accelerators	190
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-02ER15362 11/30/2011 Freeman	SC-22.12	Novel Membranes for Carbon Dioxide Removal from Natural Gas Based on Thermally Rearranged Polymers	234
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-03ER15406 10/31/2013 Ditmire	SC-22.11	High Intensity Femtosecond XUV Pulse Interactions with Atomic Clusters	0
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-01ER15186 10/31/2013 Sessler	SC-22.12	Ion Pair Receptors: Fundamental Studies and Tests Involving Sulfate Anion and Thorium Cation Extraction	210
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-03ER15430 11/30/2012 Laubach	SC-22.12	Predicting Fracture Porosity Evolution In Sandstone	300
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER15496 11/14/2012 Katz	SC-22.12	Metal-Anion Pairing at Oxide/Water Interfaces: Theoretical and Experimental Investigations from the Nanoscale to the Macroscale	86
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER15587 01/31/2012 Mullins	SC-22.12	Surface Chemical Studies of Gold Model Catalysts	145
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER16036 07/31/2014 Pope	SC-22.21	Frontiers of Subsurface Energy Security -- EFRC	1,700
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER16090 09/14/2012 Crooks	SC-22.12	SISGR: Correlation of Theory and Function in Well-Defined Bimetallic Electrocatalysts	316

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER16119 09/14/2012 Bard	SC-22.13	SISGR: Nano-Structured Electrocatalysts for Conversion of Solar Energy to Fuels	350
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-06ER15758 10/31/2011 Crooks	SC-22.12	Theoretical and Experimental Study of Electrokinetic Accumulation and Separation	151
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-05ER15746 11/14/2011 Vanden Bout	SC-22.13	Single Molecule Spectroscopic Studies of Charge Separation and Charge Transfer	180
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER15884 07/31/2013 Stanton	SC-22.11	Quantum Chemistry of Radicals and Reactive Intermediates	174
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-10ER41669 04/14/2015 Markert	SC-26.1	RECOVERY ACT - An Experimental Research Program on Chirality at the LHC	803
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-02ER45958 06/14/2014 MacDonald, Niu	SC-22.22	Geometric Phases and Topological Effects in Graphene and Magnetic Systems	205
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER46609 08/31/2012 Chelikowsky	SC-22.22	TMS: Theory and Simulation of Defects in Oxide Materials	385
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-06ER46286 06/30/2013 Chelikowsky	SC-22.22	Theory of Functionalized Nanostructures	240
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER46377 05/31/2013 Shi	SC-22.22	Energy Transport in Graphene	150
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-10ER46675 10/14/2011 Zhu	SC-22.23	Spectroscopy of Charge Carriers and Traps in Field-Doped Organic Semiconductors	323
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER46673 08/31/2013 Zhu	SC-22.23	Extracting Hot Charge Carriers from Photoexcited Semiconductor Nanocrystals	267
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER46657 09/14/2012 Ruoff	SC-22.23	SISGR - Improved Electrical Energy Storage With Electrochemical Double Layer Capacitance Based on Novel Carbon	453
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-10ER46749 08/31/2013 Goodenough	SC-22.23	Materials and Interfacial Chemistry for Next-Generation Electrical Energy Storage	700
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-05ER54840 05/31/2012 Shvets	SC-24.2	Collective High-Current Beam Effects Relevant to Fast Ignition of Fusion Targets	50
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER54766 05/14/2014 Gentle	SC-24.2	Collaborative Research: Magnetized Plasma Turbulence and Coupling to Bulk Flows	367

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				FY 2010
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-96ER54373 03/31/2012 Gentle	SC-24.2	C-Mod Collaboration	352
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-97ER54415 03/31/2012 Gentle	SC-24.2	Proposed Diagnostics and Physics Contributions of the University of Texas Fusion Research Center to the DIII-D Program	440
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER54742 10/31/2012 Van Dam	SC-24.2	Institute for Fusion Studies	2,619
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER54754 06/14/2014 Kotschenreuther	SC-24.2	Removing the Divertor Bottleneck in Magnetic Fusion Energy	97
TEXAS, UNIVERSITY OF Austin, TX	DE-FC02-08ER54988 01/14/2012 Berk	SC-24.2	Center for Gyrokinetic/MHD Hybrid Simulation of Energetic Particle Physics in Toroidal Plasmas (CSEPP)	150
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER54938 07/31/2013 Van Dam	SC-24.2	Activities of U.S. Burning Plasma Organization	231
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER54945 07/31/2013 Downer	SC-24.2	Holographic Imaging of Evolving Laser-Plasma Structures	302
TEXAS, UNIVERSITY OF Austin, TX	DE-FC02-09ER55043 07/31/2011 Berk	SC-24.2	Fusion Simulation Program	40
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-10ER65092 08/31/2013 Cook	SC-23.1	Changes in Intense Precipitation Events in West Africa and the Central U.S. Under Global Warming	306
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER64746 08/14/2012 Dickinson	SC-23.1	Systematic Development of a Subgrid Scaling Framework to Improve Land Simulation	309
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-08ER64619 01/31/2012 Jackson	SC-23.1	Searching for Atlantic Thermohaline Circulation Strength Threshold Leading to Abrupt Change of the African Monsoon	60
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-08ER64610 07/31/2012 Cook	SC-23.1	Influence of Atlantic SST Thresholds on Continental Climates: Development and Application of a Coupled Atmosphere/Ocean/Vegetation Regional	184
TEXAS, UNIVERSITY OF Richardson, TX	DE-FG02-08ER64691 08/14/2013 Chabal	SC-22.23	Novel Theoretical and Experimental Approaches for Understanding and Optimizing Hydrogen-Sorbent Interactions	360
EXAS, UNIVERSITY OF ARLINGTON Arlington, TX	DE-FG02-09ER46597 08/14/2012 Tao	SC-22.23	Doping Cuprous Oxide in Electrolyte Solution: Dopant Incorporation, Atomic Structures and Electrical Properties	167
EXAS, UNIVERSITY OF ARLINGTON Arlington, TX	DE-FG02-10ER41660 04/14/2015 Farbin	SC-25	RECOVERY ACT: Model-Independent Dark-Matter Searches at the ATLAS Experiment & Applications of Many-core	600

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
EXAS, UNIVERSITY OF ARLINGTON Arlington, TX	DE-FG02-96ER40943 01/31/2014 White	SC-25	Research in Experimental Elementary Particle Physics	670
EXAS, UNIVERSITY OF ARLINGTON Arlington, TX	DE-FG02-10ER65073 08/31/2012 Hu	SC-23.1	Effects of Pore-Scale Physics on Uranium Geochemistry in Hanford Sediments	110
TEXAS, UNIVERSITY OF DALLAS Richardson, TX	DE-FG02-09ER55037 07/14/2012 Overzet	SC-24.2	Micro-Misted Plasmas	211
TEXAS, UNIVERSITY OF DALLAS Richardson, TX	DE-FG02-04ER41310 04/14/2013 Izen	SC-25	Elementary Particle Physics	464
TEXAS, UNIVERSITY OF EL PASO El Paso, TX	DE-FG02-09ER25948 09/14/2012 Teller	SC-21.1	I/O Coordination to Improve HEC System Performance: A Marriage of Analytical Modeling, Control Theory, and Differentiated I/O Performance	217
TEXAS, UNIVERSITY OF EL PASO El Paso, TX	DE-FG02-09ER16048 08/31/2012 Baruah	SC-22.11	Density Functional Based Tools for Simulation of Photo-Induced Charge Transfer	207
TEXAS, UNIVERSITY OF EL PASO El Paso, TX	DE-FG02-09ER41599 12/31/2013 Incera	SC-26.1	Quark Matter Under Extreme Conditions	0
XAS, UNIVERSITY OF SAN ANTONIO San Antonio, TX	DE-FG02-09ER25946 09/14/2012 Yi	SC-21.1	A Multi-Language Environment for Programmable Code Optimization and Empirical Tuning	125
Total for TX :				45,308

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
BRIGHAM YOUNG UNIVERSITY Provo, UT	DE-FG02-05ER15666 08/14/2014 Woodfield	SC-22.12	Energetics of Nanomaterials	165
BRIGHAM YOUNG UNIVERSITY Provo, UT	DE-FG02-03ER15410 01/31/2013 Farnsworth	SC-22.12	Ion Production and Transport in Atmospheric Pressure Ion Source Mass Spectrometers	148
GEOLOGICAL SURVEY, U. S. Moab, UT	DE-AI02-08ER64550 05/14/2013 Belnap	SC-23.1	Climate Change in Arid Lands: How Effects Differ Among Plant Functional Groups	319
SOUTHERN UTAH UNIVERSITY Cedar City, UT	DE-FG02-10CH20026 12/31/2011 Tanner	SC-23	Southern Utah University (SUU) Walter M. Gibson Science Center Energy Efficiency Project	972
UTAH STATE UNIVERSITY Logan, UT	DE-FC02-08ER54973 02/14/2016 Held	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	75
UTAH STATE UNIVERSITY Logan, UT	DE-FG02-06ER64277 12/31/2011 Schmidt	SC-23.2	Enhancement for the Intermountain Center for River Restoration and Rehabilitation	583
UTAH STATE UNIVERSITY Logan, UT	DE-FG02-04ER54746 12/14/2012 Held	SC-24.2	Advanced Closures for Numerical Simulations of Plasmas	82
UTAH STATE UNIVERSITY Logan, UT	DE-FC02-05ER54812 02/28/2014 Held	SC-24.2	Plasma Science and Innovation Center (PSI-Center) at Washington, Wisconsin, and Utah State Universities	71
UTAH STATE UNIVERSITY Logan, UT	DE-FG02-10ER16162 06/14/2013 Evans	SC-22.12	Impact of Micro- to Meso-Scale Fractures on Sealing Behavior of Argillaceous Caprocks on Carbon Sequestration	175
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-10ER16167 06/30/2013 Lighty	SC-22.11	Development of Kinetics for Soot Oxidation at High Pressures Under Fuel-Lean Conditions	168
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER16079 09/14/2012 Louie	SC-22.12	Harnessing the Chemistry of Carbon Dioxide	150
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-93ER14333 05/31/2014 Harris	SC-22.12	Analytical Spectroscopy Methods for Liquid/Solid Interfaces	135
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-93ER14315 07/31/2014 Miller	SC-22.12	The Hydrophobic Character of Nonsulfide Mineral Surfaces as Influenced by Double-Bond Reactions of Adsorb of Adsorbed Unsaturated Collector Species...	130
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-99ER15003 02/28/2014 Anderson	SC-22.11	Model Catalysts by Size-Selected Cluster Deposition	168
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-01ER15176 12/14/2013 Morse	SC-22.11	Spectroscopy of Organometallic Radicals	136

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-03ER15404 05/31/2012 Armentrout	SC-22.11	Thermochemistry and Reactivity of Transition Metal Clusters and Their Oxides	145
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-06ER41446 09/14/2012 Detar	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	60
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-10ER25898 01/31/2012 Hall	SC-21.1	Performance Engineering Research Institutes	100
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-08ER25865 09/14/2012 Sanderson	SC-21.1	Visualization and Analysis in Support of Fusion Science	100
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER25950 09/14/2012 Pascucci	SC-21.1	Topology for Statistical Modeling of Petascale Data	130
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-10ER25973 01/31/2012 Hall	SC-21.1	Compiler-Directed Automatic Performance Tuning	235
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-07ER25810 11/14/2011 Silva	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	182
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-06ER25781 12/14/2012 Johnson	SC-21.1	Visualization and Analytics Center for Enabling Technologies	854
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER46663 09/14/2012 Smith	SC-22.23	SISGR: The Influence of Electrolyte Structure and Electrode Morphology on the Performance of Ionic-Liquid Based	500
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-08ER64557 05/14/2012 Zipser	SC-23.1	Validation of Model Simulations of Anvil Cirrus Properties	99
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-08ER64553 05/14/2012 Krueger	SC-23.1	Interactions of Cumulus Convection and the Boundary Layer at the Southern Great Plains ACRF	77
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-98ER62571 02/28/2012 Mace	SC-23.1	The Coupling Between the Large Scale Atmospheric State and Cloud Properties: A Continuing Investigation with ARM Data	165
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER46639 09/14/2012 Scarpulla	SC-22.22	SISGR - Fundamental Studies of Unconventional Sulfide Semiconductors for Cost- Effective and Environmentally Benign	300
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER46568 07/14/2012 Boehme	SC-22.22	Coherent Control of Spin-States in Organic Electronics	185
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-06ER46313 05/31/2012 Mishchenko	SC-22.22	Transport and Interactions in Chiral Electron Systems	110

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-03ER46086 08/31/2012 Virkar	SC-22.22	Thermodynamic, Kinetic and Electrochemical Studies on Mixed Proton, Oxygen Ion and Electron (Hole) Conductors	283
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-03ER46027 04/30/2013 Liu	SC-22.23	Group IV Nanomembranes, Nanoribbons, and Quantum Dots: Processing, Characterization, and Novel Devices	150
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-04ER46148 05/31/2013 Liu	SC-22.22	Classical and Quantum Stress Effects in Nano Thin Films and in Doping of Semiconductors	150
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-04ER46109 11/14/2013 Vardeny	SC-22.23	Optical, Electrical and Magnetic Studies of pi-Conjugated Systems	210
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-93ER45504 12/31/2013 Miller	SC-22.23	Synthesis of Molecule/Polymer Based Magnetic Materials	235
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-10ER64937 05/14/2012 Lazzi	SC-23.2	Artificial Retina Project: Electromagnetic and Thermal Effects	191
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-10ER65084 09/14/2013 Ehleringer	SC-23.1	Improving Representation of Drought Stress and Fire Emissions in Climate Carbon Models: Measurements and Modeling with a Focus on the Western USA	349
Total for UT :				8,287

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ATION FOR WOMEN IN MATHEMATICS Fairfax, VA	DE-FG02-07ER25822 03/31/2014 Manning	SC-21.1	Support for Recognition of Women and for Activities for Women in Mathematical Sciences at National Meetings	0
DEFENSE ADV RES PROJECT AGENCY Arlington, VA	DE-AI02-07ER25819 12/31/2012 Holland	SC-21.1	Cascade: High Productivity Adaptive Computing	8,000
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-09ER64773 06/14/2012 Boybeyi	SC-23.1	Assessment of the Indirect and Semi-Direct Aerosol Effects During ISDAC Through Integrated Observational and Modeling	176
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-08ER64633 08/31/2012 DelSole	SC-23.1	Optimal Detection of Decadal Predictability	57
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-10ER65095 08/31/2013 DelSole	SC-23.1	Collaborative Research: Separating Forced and Unforced Decadal Predictability in Models and Observations	254
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-07ER64473 08/14/2011 Straus	SC-23.1	Detection and Attribution of Climate Change Using the Interactive Ensemble	0
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-01ER45871 08/31/2014 Mishin	SC-22.22	Interfaces in Electronic and Structural Materials	122
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-09ER25886 08/14/2012 Nash	SC-21.1	Optimization Algorithms for Hierarchical Problems, with Application to Nanoporous Materials	152
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-97ER41047 05/31/2012 Tang	SC-26.1	Selected Problems in Hypernuclear Physics	160
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-87ER40380 03/31/2013 Keppel	SC-26.1	The Hampton University Graduate Studies (HUGS) Summer Program at Jefferson Lab	48
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-07ER54937 07/31/2012 Ali	SC-24.2	The Hampton University Undergraduate Research Experience in Fusion Science and Related Areas for Minority and Female	26
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-01ER54624 04/14/2013 Ali	SC-24.2	The Problem of Heat Deposition on Divertor Tokamak	84
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-04ER54793 07/31/2013 Punjabi	SC-24.2	Homoclinic Tangles in DIII-D Divertor Tokamak	138
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-10ER41667 04/14/2015 Kohl	SC-26.1	RECOVERY ACT - Search for Time Reversal Symmetry Violation with TREK at J-PARC	649
HYPERV TECHNOLOGIES CORP. Fairfax Station, VA	DE-FG02-05ER54810 12/14/2013 Witherspoon	SC-24.2	Formation of Imploding Plasma Liners for HEDP and MIF Applications	580

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2010
HYPERV TECHNOLOGIES CORP. Fairfax Station, VA	DE-FG02-05ER54835 05/31/2012 Witherspoon	SC-24.2	Hybrid Kinetic/Fluid Simulations for Magnetized High Energy Density Plasma Studies	594
ADVANCED LEARNING AND RESEARCH Danville, VA	DE-FG02-10ER65036 07/31/2013 Mei	SC-23.2	Development of a Low Input and Sustainable Switchgrass Feedstock Production System Utilizing Beneficial Bacterial Endophytes	493
NATIONAL AERONAUT & SPACE ADM Hampton, VA	DE-AI02-05ER63985 12/31/2011 Hostetler	SC-23.1	Characterizing Aerosol Distributions and Optical Properties Using the NASA Langley Airborne High Spectral Resolution Lidar (HSRL)	358
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-02ER63425 10/31/2013 McCartney	SC-23.2	PDB Management by the Research Collaboratory for Structural Biology	600
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-96ER62250 05/14/2012 Stephens	SC-23.1	Support of Distributed Cost Activities of the U.S. Global Change Research Program	596
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-08ER54996 07/14/2011 Berger	SC-24.2	Effect of Ion Flows on Heating and Instabilities in Weakly Coupled Dusty Plasmas	67
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-08ER54997 07/14/2011 Berger	SC-24.2	Collaborative Research: Collisionless Heating During Strong Field Irradiation of Wavelength-scale Particles	25
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-08ER54998 07/14/2011 Berger	SC-24.2	RUI: Collaborative Research: Collisionless Heating During Strong Field Irradiation of Wavelength-scale Particles	25
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-07ER64424 06/14/2012 Itsweire	SC-23.1	Continuation and Enhancement of the MPOWIR Program	60
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-96ER45582 02/28/2014 Murillo	SC-22.23	Research Facilities at ChemMatCARS: A Synchrotron Resource for Chemistry and Materials Science at the Advanced Photon	240
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-96ER45568 04/30/2012 Stolberg	SC-22.23	Pan American Advanced Studies Institute Program (PASI)	200
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-04ER46143 07/14/2012 Roco	SC-22.22	National Nanotechnology Coordinating Office (NNCO)	531
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-10ER35912 02/29/2012 Green	SC-2	Interagency Transfer Request for Support of the National Academy of Science Study on Research Universities	263
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-98ER25365 09/14/2012 McDuffie	SC-21.1	Co-Sponsorship of the ITR&D Program	501
NORFOLK STATE UNIVERSITY Norfolk, VA	DE-FG02-89ER40525 06/30/2013 Punjabi	SC-26.1	Polarization Experiments with Electromagnetic Probes	105

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-97ER41028 04/14/2012 Radyushkin	SC-26.1	Topics in Theoretical Nuclear Physics	143
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-96ER40960 03/14/2014 Hyde, Weinstein, Dodge, Kuhn	SC-26.1	From Quarks to Nuclei	737
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-05ER54820 03/31/2012 Vahala	SC-24.2	EBW Physics of ECE in NSTX	70
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-96ER54360 05/31/2013 Vahala	SC-24.2	Topics in Plasma Physics	10
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-10ER41639 05/14/2013 Delayen	SC-26.2	Development of a Suite of Engineered Multi-Spoke Superconducting Cavities for Nuclear Physics, Light Sources and Driven	1,448
RICHMOND, UNIVERSITY OF Richmond, VA	DE-FG02-09ER16063 02/28/2013 Parish	SC-22.11	A Theoretical Investigation of the Structure and Reactivity of the Molecular Constituents of Oil Sand and Oil Shale	134
RICHMOND, UNIVERSITY OF Richmond, VA	DE-FG02-96ER40980 05/31/2012 Gilfoyle	SC-26.1	Medium Energy Nuclear Physics at the University of Richmond	46
RICHMOND, UNIVERSITY OF Richmond, VA	DE-FG02-05ER41379 04/30/2014 Beausang	SC-26.1	Nuclear Structure Research at Richmond	119
ROLLING BAY LLC Manassas, VA	DE-AC02-07ER35878 08/26/2012 Hughes	SC-45	Mission Specific IT Services	3,363
SOCIETY OF NUCLEAR MEDICINE Reston, VA	DE-FG02-10ER64958 04/30/2012 Wenzel-Lamb	SC-23.2	Support of Students for Radiochemistry Symposium, September 8-11, 2010	20
TKC INTEGRATION SERVICES LLC Herndon, VA	DE-AB01-10ER35911 04/29/2014 TBD	SC-45	Blanket Purchasing Agreement for Microsoft Software Licensing and Software Assurance - NASA SEWP Contract # NNG07DA19B and	147
RGINIA COMMONWEALTH UNIVERSITY Richmond, VA	DE-FG02-10ER16127 12/31/2012 Luzar	SC-22.11	Hydration Mechanisms in Nanoparticle Interaction and Surface Energetics	120
RGINIA COMMONWEALTH UNIVERSITY Richmond, VA	DE-FG02-96ER45579 08/31/2014 Jena	SC-22.22	Super Beyond Halogens & Beyond Clusters	182
RGINIA COMMONWEALTH UNIVERSITY Richmond, VA	DE-FG02-09ER46665 09/14/2012 El-Kaderi	SC-22.23	SISGR - Design and Synthesis of Chemically and Electronically Tunable Nanoporous Organic Polymers for Use in Hydrogen Storage Applications	190
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-06ER46290 07/31/2012 Viehland	SC-22.22	Mesoscale Design of Interphase-Interfaces in Magnetoelectric Nanocomposites	214

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-07ER46480 05/14/2014 Priya	SC-22.21	Correlation of Bulk Dielectric and Piezoelectric Properties to the Local Scale Phase Transformations, Domain Morphology, and Crystal Structure in	154
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-08ER46532 04/30/2014 Heremans	SC-22.22	Spin-Coherent Transport Under Strong Spin-Orbit Interaction	75
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-10ER41658 04/14/2015 Huber	SC-25	RECOVERY ACT: Neutrinos in the Universe	600
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-07ER64449 07/31/2014 Beers	SC-23.2	Functional Interactomics: Determining the Roles Played by Members of the Popular Biomass Protein-Protein Interactome	0
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-92ER40709 01/31/2013 Piilonen, Takeuchi	SC-25	Investigations in Experimental and Theoretical Particle Physics	506
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-10ER25981 04/14/2015 Vullikanti	SC-21.1	RECOVERY ACT - Diffusion on Complex Networks: Algorithmic Foundations	750
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-00ER15112 10/31/2013 Dove	SC-22.12	Investigation of the Physical Basis for Biomineralization	252
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-96ER14669 12/14/2012 Oyama	SC-22.12	Molecular Understanding of Advanced Catalysis for Hydrodeoxygenation	160
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-97ER14751 04/30/2012 Cox	SC-22.12	Hydrocarbon Dehydrogenation and Oxidation Over Model Metal Oxide Surfaces	155
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-05ER15658 12/14/2011 Ross	SC-22.12	Energetics of Nanomaterials	80
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-06ER15786 09/14/2012 Hochella	SC-22.12	Dissolution Rates and Sorption/Catalytic Reactivity of Nanominerals and Nanomineral Aggregates	589
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-05ER15751 05/31/2014 Brewer	SC-22.13	Photoinitiated Electron Collection in Mixed-Metal Supramolecular Complexes: Development of Photocatalysts for Hydrogen	150
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-10ER65033 08/14/2013 Tyler	SC-23.2	Gene Ontology Terms and Automated Annotation for Energy-related Microbial Genomes	689
VIRGINIA STATE UNIVERSITY Petersburg, VA	DE-FC02-10ER25892 05/14/2012 Damevski	SC-21.1	Center for Technology for Advanced Scientific Component Software (TASCS)	322
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-96ER40950 11/30/2013 Day, Crabb	SC-26.1	Electron Interactions with Nuclei	714

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER41027 04/15/2012 Thacker	SC-25	Experimental and Theoretical High Energy Physics Group (Tasks A, B, C, and D)	1,454
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER41025 05/31/2012 Norum	SC-26.1	Nuclear Studies with Intermediate Energy Probes	424
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER41168 03/31/2013 Cates	SC-26.1	Medium Energy Spin Physics with Lasers	520
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER41200 04/30/2013 Liuti	SC-26.1	Studies of Quantum Chromodynamics at the Intersection of the Perturbative and Non-Perturbative Regimes	95
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-03ER41240 05/31/2014 Liyanaage	SC-26.1	Deep Inelastic Scattering in the Nucleon Valence Quark Region for Precision Studies of Nucleon Spin Structure and for Parity	167
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER15894 02/14/2012 Neurock	SC-22.12	Theory Aided Design of Active and Durable Nanoscale Cathode Catalysts	0
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-09ER16080 09/14/2012 Yates	SC-22.12	Observing Carbon-Hydrogen Bond Activation in Chemisorbed Species Using a New Highly Sensitive Optical Method	200
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-09ER16014 12/31/2012 Gunnoe	SC-22.12	Development of Transition Metal Catalysts for the Functionalization of Carbon-Hydrogen Bonds: Fundamental Studies of Catalytic Hydroarylation of Olefins	145
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-09ER16025 07/31/2012 Andrews	SC-22.12	Matrix Infrared Spectroscopic and Computational Investigations of Novel Small Uranium Containing Molecules	119
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER14786 10/31/2012 Gallagher	SC-22.11	Studies of Autoionizing States Relevant to Dielectronic Recombination	276
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-95ER14549 05/31/2012 Davis	SC-22.12	Structure and Function of Supported Base Catalysts	160
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-00ER15053 11/30/2012 Jones	SC-22.11	Using Strong Optical Fields to Manipulate and Probe Coherent Molecular Dynamics	296
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER64442 07/31/2011 Keene	SC-23.1	The Impact of Primary Marine Aerosol on Atmospheric Chemistry, Radiation, and Climate: A CCSM Model Development	0
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-10ER41668 05/31/2015 Zheng	SC-26.1	RECOVERY ACT - Measurement of Parity Violation in Deep Inelastic Scattering and Studies of the Nucleon Spin Structure at JLab 6 and 11 GeV	647
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER41522 04/30/2012 Paschke	SC-26.1	Precision Electroweak Studies at Low Q <sup>2</sup> using Parity-Violating Electron-Scattering	170

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER45927 06/14/2014 Louca	SC-22.21	Emergent Phenomena in Novel Materials and Functionality Control: Characterization at Multiple Length and Time Scales	203
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-09ER46582 07/31/2014 Gunnoe	SC-22.11	Center for Catalytic Hydrocarbon Functionalization -- EFRC	2,200
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER46384 05/31/2013 Lee	SC-22.21	Neutron Scattering Study of Unconventional Superconductors	193
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-96ER54344 12/31/2011 Vahala	SC-24.2	Theoretical Plasma Physics	100
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-04ER46127 04/14/2013 Luepke	SC-22.22	Time-Resolved Spectroscopy of Insulator-Metal Transitions: Exploring Low-Energy Dynamics in Strongly Correlated Systems	150
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-09ER41630 08/31/2012 Detmold	SC-26.1	Multi-Meson Systems in Lattice QCD	83
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-07ER46366 04/30/2012 Krakauer	SC-22.22	Predictive Capability for Strongly Correlated Systems: Mott Transition in MnO, Multielectron Magnetic Moments, and Dynamics Effects in Correlated Materials	0
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-04ER41302 03/14/2013 Orginos, Detmold	SC-26.1	Topics in Theoretical Physics	136
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-96ER41003 02/14/2014 Griffioen, Averett	SC-26.1	Nucleon Structure Studies	436
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-09ER25885 08/14/2012 Lewis	SC-21.1	Optimization Algorithms for Hierarchical Problems, with Application to Nanoporous Materials	18
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-09ER16046 08/31/2012 Krakauer	SC-22.11	Quantum Monte Carlo Calculations of Chemical Binding and Reactions	280
Total for VA :				35,715

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
& ST AGRICULTURAL COL., U. OF Burlington, VT	DE-FG02-09ER64921 09/28/2012 Bernstein	SC-23.2	University of Vermont Center for Biomedical Imaging	1,166
VERMONT, UNIVERSITY OF Burlington, VT	DE-FG02-07ER46380 05/31/2014 Headrick	SC-22.21	Fundamental Mechanisms of Roughening and Smoothing During Thin Film Deposition	124
Total for VT :				1,290

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
ED MEDICAL ISOTOPE CORPORATION Kennewick, WA	DE-FG02-10ER65004 09/14/2012 Su	SC-23.2	Research to Develop and Test an Advanced Resorbable Brachytherapy Seed Research for Controlled Delivery of Yttrium-90	1,215
FORESIGHT SCIENCE & TECH, INC. Port Townsend, WA	DE-AD02-08ER12272 12/31/2011 Speser	SC-29	SBIR/STTR Commercialization Assistance Program	610
INSTITUTE FOR SYSTEMS BIOLOGY Seattle, WA	DE-FG02-10ER65031 08/14/2013 Baliga	SC-23.2	Enabling a Systems Biology Knowledgebase with Gaggle and Firegoose	494
MSNW, LLC Redmond, WA	DE-FG02-09ER55029 08/14/2012 Slough	SC-24.2	Foil Liner Compression of the FRC to Megagauss Fields	441
NATIONAL OCEAN & ATMOS ADMIN Seattle, WA	DE-AI02-06ER25771 09/14/2011 Hankin	SC-21.1	Scaling the Earth System Grid to Petascale Data	180
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-07ER46386 05/31/2013 McCluskey	SC-22.22	Optical Properties of Doped ZnO Nanocrystals and Ceramics	151
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-07ER46435 08/14/2013 Zbib	SC-22.22	Investigating Deformation and Failure Mechanisms in Nanoscale Multilayer Metallic Composites	185
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER64560 05/14/2012 Beyenal	SC-23.1	Microscale Metabolic, Redox and Abiotic Reactions in Hanford 300 Area Subsurface Sediments	259
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-04ER15618 07/31/2012 Dickinson	SC-22.12	Laser Material Interactions Relevant to Analytic Spectroscopy of Wide Band Gap Materials	90
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-09ER16098 09/14/2012 Clark	SC-22.12	SISGR - Origin of Actinide Ion Partitioning in Biphasic Systems	200
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-09ER16062 08/14/2012 Cousins	SC-22.13	Disruption of C4 Photosynthesis by Changes in Light Quantity and Quality: Implications for CO2 Fixation and	164
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-09ER16054 08/14/2012 Lange	SC-22.13	Unraveling the Regulation of Terpenoid Oil and Resin Biosynthesis for the Development of Biocrude Feedstocks	135
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-10ER16154 08/31/2013 Clark	SC-22.12	Controlling Actinide Hydration in Mixed Solvent Systems: Towards Tunable Solvent Systems to Close the Nuclear Fuel Cycle	150
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER15927 08/31/2012 Neff	SC-22.13	Biochemical and Molecular Genetic Analysis of the AT-hook Nuclear Localizing (AHL) Gene Family in Arabidopsis	130
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-06ER15820 12/14/2012 Hurst	SC-22.13	Membrane-Organized Chemical Photoredox Systems	140

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-10ER25983 05/14/2013 Vixie	SC-21.1	Geometric Analysis for Data Reduction and Structure Discovery	423
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-99ER20323 03/14/2012 Browse	SC-22.13	Jasmonate Signaling and Stamen Development in Arabidopsis	160
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-96ER20225 07/14/2014 Kahn	SC-22.13	The Rhizobial Nitrogen Stress Response and Effective Symbiotic Nitrogen Fixation	170
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-97ER20259 01/31/2013 Lewis	SC-22.13	Lignin Biopolymer Assembly and Primary Structure: A (Bio)Chemical Characterization	160
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-96ER20216 08/31/2014 Okita	SC-22.13	Enhancement of Photoassimilate Utilization by Manipulation of Starch Regulatory Enzymes ADPglucose Pyrophosphorylase and Starch Phosphorylase	169
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-09ER64901 08/31/2012 Gang	SC-23.2	Engineering Specialized Metabolism in a Single Cell Type	463
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-10ER64950 04/14/2015 VanReken	SC-23.1	RECOVERY ACT - Linking Plant Stress, Biogenic SOA, & CCN Production - A New Feedback in the Climate System?	581
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER64626 07/31/2011 Jobson	SC-23.1	Field Measurements of Organic Aerosol Precursors and Air Mass Photochemical Age	96
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER64660 08/31/2012 Flury	SC-23.1	Long-Term Colloid Mobilization and Colloid-Facilitated Transport of Radionuclides in a Semi-Arid Vadose Zone	160
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER64696 09/14/2011 Wall	SC-23.1	Influence of Organic Ligands on the Stability and Mobility of Reduced Tc(IV) and U(IV)	101
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-10ER65075 08/31/2012 Harsh	SC-23.1	Technetium(VII) Coprecipitation with Framework Aluminosilicates	100
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-08ER64688 09/14/2011 Harwood	SC-23.2	Integrating Large-Scale Functional Genomics Data to Dissect Metabolic Networks for Hydrogen Production	400
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-08ER64685 09/14/2011 Leigh	SC-23.2	Hydrogen Regulation and Global Responses to Electron, Carbon and Nitrogen Sources of Methanococcus Maripaludis	600
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-08ER64589 07/14/2012 Lettenmaier	SC-23.1	Susceptibility of Colorado River Basin to Megadroughts in a Warming Climate	134
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER64778 06/30/2012 Ackerman	SC-23.1	Evaluating and Improving Cloud Processes in the Multi-Scale Modeling Framework	169

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				FY 2010
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER64769 06/14/2012 Fu	SC-23.1	Radiative Energy Balance in the Tropical Tropopause Layer: An Investigation with ARM DATA	138
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER64767 06/14/2012 Marchand	SC-23.1	Atmospheric Classification for the Analysis of ARM Observations and Global Climate Models	161
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER64752 05/14/2012 Houze	SC-23.1	Use of ARM Observations and Numerical Models to Determine Radiative and Latent Heating Profiles of Mesoscale Convective	118
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-10ER64972 05/31/2013 Lidstrom	SC-23.2	Systems Level Insights into Alternate Methane Cycling Modes in a Freshwater Lake via Community Transcriptomics, Metabolomics, and Nano-SIMS Analysis	456
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER64839 08/14/2011 Lettenmaier	SC-23.1	Collaborative Proposal: Hydrologic Extremes in a Changing Climate: How Much Information Can Regional Climate Models	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-10ER16197 09/14/2013 Baker	SC-22.13	Protein Scaffolding for Small Molecule Catalysts	300
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-00ER41132 02/28/2014 Kaplan	SC-26.1	Institute for Nuclear Theory	5,255
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-97ER41020 11/30/2011 Robertson	SC-26.1	Experimental Nuclear Physics	4,166
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-97ER41014 10/31/2011 Miller	SC-26.1	Nuclear Theory	785
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FC02-07ER41457 11/30/2011 Bulgac	SC-26.1	Low-Energy Nuclear Physics National HPC Initiative: Building a Universal Nuclear Energy Density Functional	236
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER40956 03/31/2014 Nelson, Wilkes, Yaffe	SC-25	Theoretical and Experimental Particle Physics	1,698
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-05ER15707 08/31/2013 Harwood	SC-22.13	Biohydrogen production by a photosynthetic bacterium	358
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER16105 09/14/2012 Khalil	SC-22.11	SISGR - Correlating Electronic and Nuclear Motions During Photoinduced Charge Transfer Processes using Multidimensional	280
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER16106 09/14/2012 Seidler	SC-22.11	SISGR - New Scientific Opportunities Through Inelastic X-Ray Scattering at 3rd-and 4th-Generation Light Sources (*)	163
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER14630 03/14/2014 Campbell	SC-22.12	Supported Metal Nanoparticles: Correlating Catalytic Kinetics, Energetics and Surface Structure	190

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WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64460 08/14/2011 Lettenmaier	SC-23.1	Collaborative Research: Towards Decadal-Scale Prediction of Arctic Climate Using a High-Resolution Regional Arctic Climate System Model	173
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64482 08/31/2011 Harwood	SC-23.2	Redirection of Metabolism of Hydrogen Production	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64485 08/31/2011 Lidstrom	SC-23.2	Coupling Function to Genomics in Microbial Communities Via Single-Cell Ananlysis	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64433 07/31/2011 Bitz	SC-23.1	Deep Ocean Heat Uptake and the Influence of Sea Ice in the Southern Ocean	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FC02-10ER55073 03/14/2016 Glasser	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	50
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER55034 08/14/2012 Smith	SC-24.2	Internal Field, Density and Temperature Measurements in Magnetized Target Fusion Plasmas Using Pulsed Polarimetry	216
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER46653 09/14/2012 Cobden	SC-22.21	SISGR - Intrinsic Properties of Correlated Materials Derived From Combined Nanoscale Transport and Ultrafast Spatio-Temporal Imaging Experiments	398
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-10ER46702 05/31/2013 Pozzo	SC-22.21	Self-Assembly of Conjugated Polymer Networks: A Neutron Scattering Study	185
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FC02-05ER54811 02/28/2014 Jarboe	SC-24.2	Plasma Science and Innovation Center (PSI Center) at Washington, Wisconsin, and Utah State	934
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER54769 06/14/2012 Slough	SC-24.2	Small Scale Fusion: The Pulsed High Density FRC Experiment	315
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER54756 12/31/2011 Shumlak	SC-24.2	The ZaP Flow Z-Pinch Project	317
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-98ER54480 12/14/2011 Steinhauer	SC-24.2	Theory of Field-Reversed Configurations	95
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER54361 05/31/2014 Jarboe	SC-24.2	Helicity Injected Torus (HIT) Current Drive Program	1,059
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER54376 01/31/2012 Slough, Vlases, Milroy	SC-24.2	High Flux FRC Facility for the Stability, Confinement and ITER Divertor Studies	1,536
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-99ER54519 03/14/2014 Jarboe	SC-24.2	Solenoid Free Current Initiation and Sustainment by Coaxial Helicity Injection	310

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WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER46452 08/14/2013 Andreev	SC-22.22	Electron Interaction Effects in Nanosystems	280
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER46467 05/31/2013 Jenekhe	SC-22.23	Molecular and Nanoscale Engineering of High Efficiency Exciton Solar Cells	380
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-97ER45623 02/14/2012 Rehr	SC-22.22	Quantitative Photon and Electron Spectroscopy Theory	303
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-02ER45990 07/14/2012 Rehr	SC-22.22	Computational Materials and Chemical Sciences Network Administration	55
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-10ER41645 09/30/2011 Wilbur	SC-26.2	Production of Astatine-211 for U.S. Investigators	705
WHITWORTH UNIVESITY Spokane, WA	DE-FG02-10CH20028 12/31/2011 Noland	SC-23	Whitworth University Science Equipment Upgrades	291
YAHSGS, LLC Richland, WA	DE-AC02-09ER41625 07/31/2013 Yuracko	SC-26.2	Isotope Program Support Services Requirement for Strategic Planning, Measurement and Analysis, and Quality,	150
Total for WA :				30,486

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
AGRICULTURE, U.S. DEPT. OF Madison, WI	DE-AI02-07ER64480 08/31/2011 Hammel	SC-23.2	A New Solution-State NMR Approach to Elucidate Fungal and Enzyme/Mediator Delignification Pathways	0
AGRICULTURE, U.S. DEPT. OF Madison, WI	DE-AI02-07ER64491 08/31/2011 Hunt	SC-23.2	Development of Modular Platforms for In Vivo Mapping of Local Metabolite Concentrations Important to Cell Wall	0
AGRICULTURE, U.S. DEPT. OF Rhinelander, WI	DE-AI02-09ER64717 01/14/2012 Kubiske	SC-23.1	Final Harvest of Above-Ground Biomass and Allometric Analysis of the Aspen FACE Experiment	88
TAR MEDICAL RADIOISOTOPES, LLC Madison, WI	DE-FG02-10ER41642 09/30/2011 Harvey	SC-26.2	Production of Actinium-225 via High Energy Proton Induced Spallation of Thorium-232	263
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER16050 07/31/2012 Xu	SC-22.12	Interface Induced Carbonate Mineralization: A Fundamental Geochemical Process Relevant to Carbon Sequestration	76
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER16059 08/31/2012 Schmidt	SC-22.11	Modeling Carbon Dioxide Capture and Separation in Zeolitic Imidazolate Frameworks	125
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER16122 09/14/2012 Hammers	SC-22.13	SISGR - Ultra-Stable Molecule-Surface Architectures at Metal Oxides: Structure, Bonding, and Electron-Transfer Processes	200
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER16110 09/14/2012 Skinner	SC-22.11	SISGR - Water Dynamics in Heterogeneous and Confined Environments: Salt Solutions, Reverse Micelles, and Lipid Multi-Bilayers	200
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER15690 11/14/2011 Stahl, Brunold	SC-22.12	Mechanisms of Organometallic Aerobic Oxidation Reactions Catalyzed by Copper	155
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER15731 07/14/2014 Mavrikakis	SC-22.12	Atomic-Scale Design of Metal and Metal Alloy Catalysts: A Combined Theoretical and Experimental Approach	290
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER15899 08/31/2013 Gilbert	SC-22.12	Phase Transitions and Crystalline Orientations in Marine Invertebrate Skeletons: Key Insight into Biomineral Formation Mechanisms and Function	225
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-93ER14389 03/31/2013 Valley	SC-22.12	Ion Microprobe Analysis of Oxygen and Silicon Isotope Ratios in Diagenetic Cements	248
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-88ER13938 06/30/2012 Sussman	SC-22.13	Molecular Mechanism of Energy Transduction by Plant Membrane Proteins	127
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-88ER13968 04/14/2013 Vierstra	SC-22.13	Molecular Dissection of the Arabidopsis Holo-26S Proteasome	180
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-84ER13183 06/30/2014 Dumesic	SC-22.12	Fundamental Studies of the Reforming of Oxygenated Compounds Over Supported Metal Catalysts	168

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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-86ER13500 10/14/2012 Crim	SC-22.11	Vibrations and Conical Intersections in Electronically Excited Molecules and Complexes	155
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER15527 05/31/2013 Spalding	SC-22.13	Amino Acid-Sensing Ion Channels in Plants	170
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-02ER15342 08/31/2012 Bent	SC-22.13	Dissection and Manipulation of LRR Domains in Plant Disease Resistance Receptors	170
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER25869 11/30/2010 Linderoth	SC-21.1	Optimization Under Nonconvexity and Uncertainty: Algorithms and Software	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER25861 08/14/2012 Linderoth	SC-21.1	Next-Generation Solvers for Mixed-Integer Nonlinear Programs: Structure, Search, and Implementation	181
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER25945 09/14/2012 Miller	SC-21.1	Lightweight and Statistical Techniques for Petascale Debugging	79
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER25940 12/14/2012 Miller	SC-21.1	Foundational Tools for Petascale Computing	138
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER25937 09/14/2012 Miller	SC-21.1	Correctness Tools for Petascale Computing	104
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER25934 09/14/2012 Miller	SC-21.1	Building a Community Infrastructure for Scalable On-Line Performance Analysis Tools Around Open Speedshop	76
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER25972 01/31/2013 Miller	SC-21.1	Tools for the Development of High-Performance Energy Applications and Systems	270
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER16204 09/14/2013 Berry	SC-22.12	Metal-Metal Bonded Reaction Intermediates in C-H Functionalization	155
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER25627 08/31/2012 Mitchell	SC-21.1	BACTER: Bringing Advanced Computational Techniques to Environmental Research	1,400
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-06ER25756 09/14/2012 Livny	SC-21.1	A Center for Enabling Distributed Petascale Science	280
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-07ER25802 11/14/2011 Miller	SC-21.1	SciCET: Center for Scalable-Performance Application Development Software	135
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER25842 08/14/2012 Miller	SC-21.1	A Path to Operating System and Runtime Support for Extreme Scale Tools	347

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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-06ER41436 03/31/2012 Livny	SC-25	SciDAC: Sustaining and Extending the Open Science Grid: Science Innovation on a PetaScale Nationwide Facility	1,739
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-95ER40896 10/31/2013 Smith	SC-25	High Energy Physics Research: Experimental, Theoretical, Phenomenology, Mathematical	4,641
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER46327 07/31/2013 Eom	SC-22.22	Atomic Layer Controlled Growth of Pnictide Thin Film Heterostructures by Design	200
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER46590 05/31/2013 Gopalan	SC-22.23	Optical and Electro-Optic Modulation of Biomimetically-Functionalized Nanotubes	285
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER46547 04/30/2012 Voyles	SC-22.21	Characterization of Dopant / Point Defect Complexes in Semiconductors by STEM	220
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER46493 06/14/2014 Szlufarska	SC-22.22	Radiation Effects in Nanocrystalline Ceramics: Multi-Scale Model and Experiment	214
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER41551 01/31/2012 Heeger	SC-26.1	OJI: Measurement of Neutrino Properties With Bolometric Detectors	160
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER41531 10/31/2013 Ramsey-Musolf	SC-26.1	Fundamental Interactions in Nuclei	325
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER46147 05/31/2013 Evans	SC-22.21	Dynamics and Extreme Conditions in Complex Oxide Heterostructures	196
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-03ER46028 04/30/2013 Lagally	SC-22.23	Group IV Nanomembranes, Nanoribbons, and Quantum Dots: Processing Characterization, and Novel Devices	470
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-99ER45777 07/31/2012 Chang	SC-22.21	Stability and Novel Properties of Magnetic Materials and Ferromagnet/Insulator Interfaces	168
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-93ER54222 01/31/2014 Anderson	SC-24.2	HSX: A Helicallly Symmetric Toroidal Experiment	2,049
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-92ER54139 04/30/2014 Callen	SC-24.2	Large Experiment Data Analysis Collaboration	168
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-86ER53218 12/31/2012 Hegna	SC-24.2	Nonlinear and Nonideal MHD	276
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-85ER52122 12/31/2011 Vernon	SC-24.2	High Power Microwave Transmission Systems for Electron-Cyclotron-Resonance Plasma Heating	100

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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-85ER53212 11/30/2013 Terry	SC-24.2	Theoretical Studies Related to Reversed Field Pinch Physics	151
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-89ER53291 12/14/2011 Terry	SC-24.2	Turbulence and Transport in Toroidal Plasmas	155
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-89ER53296 12/31/2012 Fonck, McKee	SC-24.2	Multifield Fluctuation Diagnostics Development for Nonlinear Instability Studies in Fusion-Grade Toroidal Plasmas	550
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER46730 08/14/2013 Bisognano	SC-22.3	Construction and Test of a Novel Superconducting RF Electron Gun	3,000
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER46692 03/31/2013 de Pablo	SC-22.23	Functional, Hierarchical Colloidal Liquid Crystal Gels and Liquid Crystal Elastomers Nanocomposites	250
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER46685 04/14/2015 Fredrickson	SC-22.23	RECOVERY ACT - Chemical Frustration: A Design Principle for the Discovery of New Complex Alloy and Intermetallic Phases	600
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER46642 09/14/2012 Ediger	SC-22.22	SISGR - Characterization of High Density/High Stability Glasses	146
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER46664 09/14/2012 Jin	SC-22.23	SISGR: Fundamental Studies of Charge Transfer in Quantum Confined Nanostructure Heterojunctions and Applications to Solar Energy Conversion	650
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-99ER54513 10/31/2013 Sawan, Mogahed, Sviatoslavsky,	SC-24.2	Nuclear Technologies for Near Term Fusion Devices	215
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-99ER54546 12/31/2013 Hegna	SC-24.2	Theoretical Studies of Near Symmetric Stellarator Plasmas	142
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-96ER54375 11/30/2013 Fonck, Hegna, Corradini	SC-24.2	Non-Solenoidal Startup and Stability Limits at Near-Unity Aspect Ratio	1,398
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-98ER54462 12/31/2012 El-Guebaly, Henderson, Haynes, Kulcinski	SC-24.2	Fusion Advanced Design Studies	250
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-97ER54437 09/14/2012 Hershkowitz	SC-24.2	Laboratory Measurements of Bohm Presheaths: Experimental Check of Many of the Predicted Properties	179
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER54751 05/31/2012 Santarius	SC-24.2	Investigation of Converging Plasma-Jet Compression and Magno-Inertial Fusion Burn Dynamics	84
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER54745 02/14/2013 Santarius	SC-24.2	Atomic Physics Effects on Spherically Convergent, Child-Langmuir Ion Flow Between Nearly Transparent Electrodes	68

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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-00ER54603 12/31/2011 Forest	SC-24.2	Stabilization of Resistive Wall Modes Using Moving Metal Walls	488
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-01ER54619 01/14/2014 Shaing	SC-24.2	Neoclassical Theory and its Applications	160
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-05ER54813 02/28/2014 Sovinec	SC-24.2	Plasma Science and Innovation Center (PSI-Center) at Washington, Wisconsin, and Utah State Universities	97
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-05ER54814 12/14/2014 Sarff	SC-24.2	Reversed Field Pinch Research in MST	6,487
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER54831 07/14/2013 Forest	SC-24.2	Liquid Metal Studies of Dynamos	250
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER54821 03/14/2014 Pfotenhauer	SC-24.2	Cryogenic Optimization of D2 Pellet Injectors: Preparation for ITER-Scale Fusion Reactors	75
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER54850 04/30/2012 Sovinec	SC-24.2	Transients and Magnetic Relaxation in Innovative Confinement Concepts	100
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER54932 07/14/2011 Boldyrev	SC-24.2	Toward the Theory of Turbulence in Magnetized Plasmas	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-06ER54899 08/14/2011 Schnack	SC-24.2	Center for Wave Interactions With Magnetohydrodynamics	100
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER54868 06/30/2014 Schnack	SC-24.2	Transport and Dynamics in Toroidal Fusion Systems	200
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER54999 07/31/2014 McKee	SC-24.2	Behavior and Multifield Dynamics of Tokamak Turbulence and Instabilities	180
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER55014 06/14/2012 McKee	SC-24.2	Investigations of Long-Wavelength Turbulence Properties in the Spherical Torus Configuration	226
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-08ER54974 02/14/2016 Schnack	SC-24.2	SciDAC: Center for Extended Magnetohydrodynamic Modeling/Transport and Dynamics in Toroidal Fusion Systems	125
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-08ER54975 02/14/2016 Sovinec	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	132
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER54939 07/31/2013 Hegna	SC-24.2	Communication Support for U.S. Burning Plasma Organization	85

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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER55072 04/14/2015 Boldyrev	SC-24.2	RECOVERY ACT - Scaling Laws in Magnetized Plasma Turbulence	750
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER55049 08/14/2012 Boldyrev	SC-24.2	Study of Nonlinear Interaction and Turbulence of Alfvén Waves in LAPD Experiments	59
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-01ER63249 09/14/2011 Liu, Kutzbach	SC-23.1	Towards the Prediction of Decadal to Centennial Climate Processes in the Coupled Earth System Model	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER64167 12/14/2012 Tobin, Turner	SC-23.1	Evaluating Radiative Closure in the Middle-to-Upper Troposphere	200
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-07ER64494 11/30/2012 Donohue	SC-23.2	Great Lakes Bioenergy Research Center	24,027
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER64495 09/14/2012 Noguera	SC-23.2	Networks Impacting Solar-Powered Hydrogen Production	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER65111 08/31/2011 Liu	SC-23.1	Synthesis of Transient Climate Evolution of the Last 21-kyr (SynTraCE-21) - Workshop Support, October 9-13, 2010	15
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER65108 09/14/2013 Vimont	SC-23.1	Pacific Decadal Variability and Central Pacific Warming El Niño in a Changing Climate	46
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER64858 08/31/2012 Xu	SC-23.1	The Role of Nanopores on U(VI) Sorption and Redox Behavior in U(VI)-Contaminated Subsurface Sediments	99
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER65057 08/31/2013 DeJesus	SC-23.2	Multimodality Plant Imaging Using Small Peptide Derivatives	873
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER64754 05/14/2012 Roden	SC-23.1	Physiological Models of Microbial Redox Metabolism in Uranium(VI)-Contaminated Subsurface Sediments	259
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER64593 07/31/2012 Liu	SC-23.1	A Collaborative Proposal: Simulating and Understanding Abrupt Climate-Ecosystem Changes During Holocene With NCAR-CCSM3	125
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-10ER65114 09/14/2013 Tsonis	SC-23.1	Collaborative Research: An Interactive Multi-Model for Consensus on Climate Change	85
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-07ER64428 07/14/2011 Kravtsov	SC-23.1	Collaborative Research: Regional Climate-Change Projections Through Next-Generation Empirical and Dynamical Models	0
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-07ER64382 03/31/2012 Saffarini	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	0

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WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-84ER45076 10/31/2011 Saldin	SC-22.21	Electron Scattering from Surfaces	108
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-06ER46277 12/31/2011 Lyman	SC-22.21	Probing Surfaces and Nanostructures with Surface X-ray Diffraction: Application of a Direct Method for the Visualization of	189
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-05ER46228 08/14/2012 Li	SC-22.21	Tailoring Magnetism in Epitaxial Graphene on SiC	185
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-09ER16114 09/14/2012 Ourmazd	SC-22.11	SISGR - Structure From Fleeting Illumination of Faint Spinning Objects in Flight	149
Total for WI :				60,928

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2010
SHALL UNIVERSITY RESEARCH CORP Huntington, WV	DE-FG02-10ER65022 09/14/2014 Maher	SC-23.2	Center for Diagnostic Nanosystems	4,765
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-10ER16164 05/31/2013 Lewis	SC-22.11	Computational Design of Metal Organic Frameworks for Photocatalytic Reduction of Carbon-Dioxide	112
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-08ER46507 06/30/2012 Lederman	SC-22.21	Hydrogen Absorption in Pd-Based Nanostructures	10
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-08ER46505 06/30/2012 DiFazio	SC-22.21	Land Reclamation for Bioenergy: Genomics of Adaptation of Populus to Marginal Sites	15
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-09ER46615 08/14/2012 Nix	SC-22.21	Experimental Investigation of Turbine Vane Heat Transfer for Alternative Fuels	15
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-06ER46299 07/31/2013 Bajura	SC-22.21	Direct Utilization of Coal Syngas in High Temperature Fuel Cells: Debradation Mechanisms and Lifetime Predictions	50
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-10ER46714 07/14/2013 Scime	SC-22.21	Two Photon Absorption Laser Induced Fluorescence for Neutral Hydrogen Profile Measurements	569
Total for WV :				5,536

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WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-08ER15979 11/30/2011 Roddick	SC-22.13	Highly Oxidizing Excited States	115
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-08ER15972 08/31/2014 Parkinson	SC-22.13	Combinatorial Discovery and Optimization of the Composition, Doping and Morphology of New Oxide Semiconductors for Efficient Photoelectrochemical Water Splittin	190
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-10ER26029 08/31/2013 Ginting	SC-21.1	Enabling Predictive Simulation and UQ of Complex Multiphysics PDE Systems by the Development of Goal-Oriented Variational	24
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-09ER46614 08/14/2012 Naughton	SC-22.21	Investigation of Dynamic Aerodynamics and Control of Wind Turbine Sections Under Relevant Inflow/Blade Attitude Conditions	45
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-10ER46708 06/30/2013 Lewis	SC-22.21	X-Ray Diffraction and Neutron Scattering Structural Analysis of Natural and Synthetic Spider Silk Fibers	570
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-10ER46728 08/14/2013 Parish	SC-22.21	Wyoming DOE EPSCoR: Quantum Dot Sensitized Solar Cells Based on Ternary Metal Oxide Nanowires	1,933
Total for WY :				2,877
Grand Total:				038,333