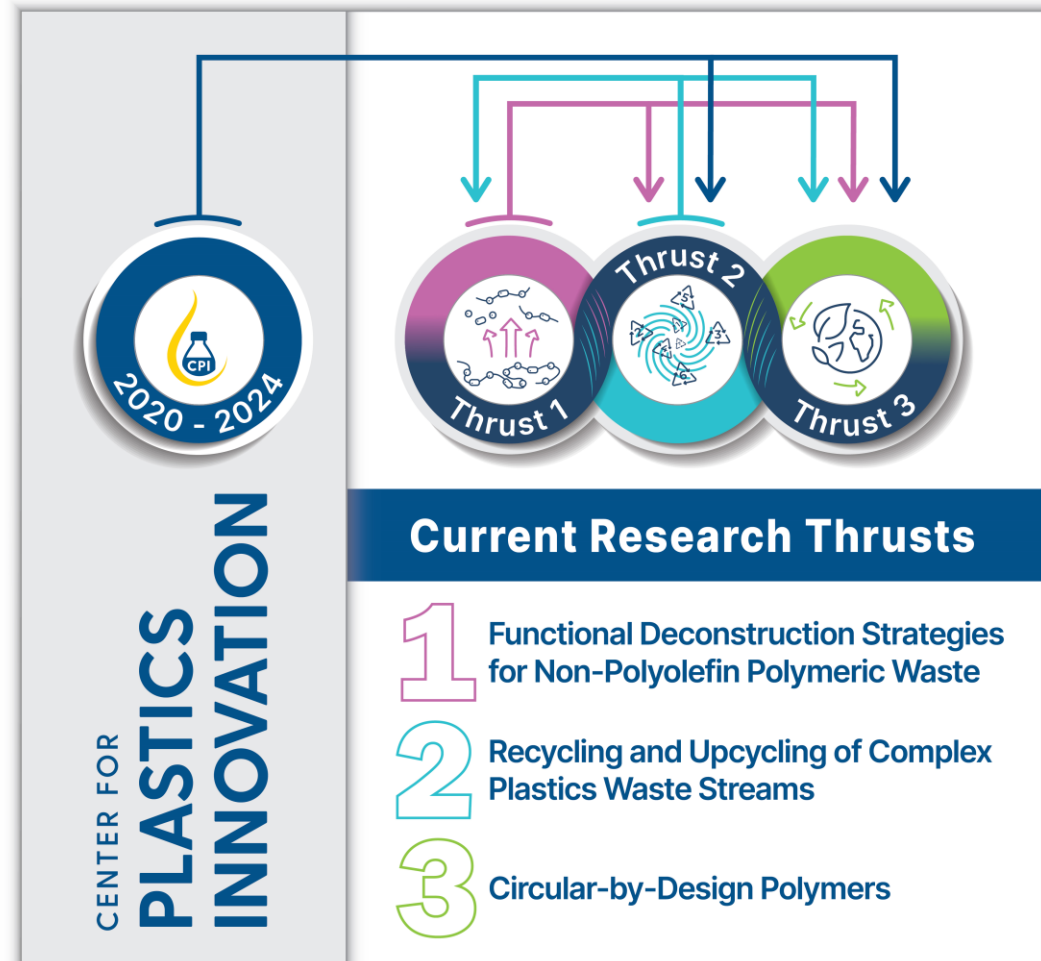


Center for Plastics Innovation (CPI)

LaShanda Korley (University of Delaware); Class: 2020-2028

MISSION: To develop energy-efficient, selective, and tolerant chemo- and bio-catalytic and synthetic pathways to valorize diverse plastics waste streams and dramatically increase circularity.

RESEARCH PLAN: CPI will deliver disruptive, transformative, and foundational solutions to realize more sustainable plastics throughout their life cycle. We explore deconstruction routes that synergize chemical and enzymatic approaches to produce building blocks from heteroatomic polymers, define pathways to enable tailored deconstruction of waste streams with compositional complexity, and employ methods to impart selective sites for degradation/improved recyclability. This research nucleates a paradigm shift in the plastics life cycle *via* detailed mechanistic understanding.



<https://cpi.udel.edu>

