

Institute for Cooperative Upcycling of Plastics (iCOUP)

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MISSION: to uncover macromolecular and catalytic phenomena at the interface of molecular-scale chemistry and mesoscale materials science in order to enable upcycling of energy-rich plastics.



<https://www.ameslab.gov/institute-for-cooperative-upcycling-of-plastics-icoup>

RESEARCH PLAN

iCOUP is creating inorganic catalysts to cleave specific bonds in polyolefins, discovering new methods for polymer upcycling into value-added products and materials, and understanding the phenomena, such as macromolecule-catalyst interactions, underpinning these transformations.