

Online Seminar Series

Masquerading Soft Materials via Anomalous Mechanochemical Transformations

Livestreaming at 10:00 AM (CT)

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on the CMCC YouTube Channel: https://www.youtube.com/channel/UC 7eCYPKbGTKpg07W2bNABxg



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ABSTRACT:

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The Golder Research Team utilizes fundamental principles of molecular structure to control synthetic polymer function. Many of society's greatest advancements spanning health, sanitation, construction, electronics, and transportation have been enabled by the invention and application of plastics. Simultaneously, these materials have created significant concerns about global sustainability, climate impact, and environmental pollution. My laboratory aims to discover synthetic methods to produce next-generation designer plastics and reform how commodity plastics are utilized. In this talk, the team's efforts towards these common goals will be outlined in the context of recent work centered on: (1) counterintuitive synthetic polymer transformations fueled by mechanoredox catalysis and (2) plasticization to mechanochemically functionalize post-consumer plastic waste.

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