Synthesis and Application of Multi-Functional Polymeric Materials

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The design of multi-functional building blocks for common polymeric materials and their extension to commercial products will be demonstrated. In synthesizing these nanostructures, functional group interconversion and efficient organic transformations are key to obtaining materials with exceptional properties. As one illustration, a novel methodology for printing 3D objects with spatially resolved mechanical and chemical properties will be described. The power of this approach is showcased through the one-step fabrication of bioinspired soft joints and mechanically reinforced “brick-and-mortar” structures using tailored photochromic dyes.

For additional information visit https://z.umn.edu/HawkerCraig

Host:
POLY/PMSE Student Chapter

Refreshments will be served prior to the seminar.

Visit:
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