



3D Printing Composites

Guest Editor:

Dr. Kun Fu

Center for Composite Materials,
Department of Mechanical
Engineering, University of
Delaware, Newark, DE 19716, USA

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editor

Additive manufacturing (AM) or 3D printing, which has potential benefits for automation, low cost, rapid prototyping, and customizability, can greatly outperform conventional polymer and composite manufacturing technologies, which suffer from time-consuming and labor-intensive problems during operation. Recent novel additive manufacturing technologies and rapidly developed polymer materials/chemistry have emphasized their combinations for constructing complicated architectures and realizing structurally and functionally customized designs, offering a great opportunity for structural and functional applications that transcend current manufacturing and outperform existing material process–property–structure relationships.

This Special Issue aims to highlight the additive manufacturing of polymers and composites, including polymer materials discovery and development, polymer and composite manufacturing strategies and modifications, composite architectures and constructions, mechanical enhancement of reinforced polymer composites, functional-driven constituent composition–structure relationships, and polymer and composite functional design and applications.

