Special Issue

3D Printing Composites

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.
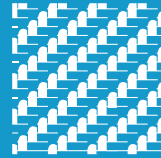
Guest Editor

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Deadline for manuscript submissions

closed (31 December 2021)

Journal of Composites Science

an Open Access Journal
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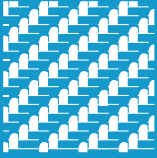
Impact Factor 3.0
CiteScore 5.0

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