

Special Issue

3D Printing of Polymeric Composites: From Materials to Functional Structures

Message from the Guest Editors

The properties of polymer matrix composites are not only linked with the material components, but also strongly depend on the architecture of the prepared devices. Three-dimensional printing technology is undoubtedly now driving a paradigm shift in the design and manufacturing of functional devices, where the importance of the connection and combination of material diversity and structure design has received unprecedented attention. However, as an emerging topic, the 3D printing of polymer matrix composites still faces great challenges from both materials, processing technologies and structural designing principles, including but not limited to material diversity, and the scalable production and theory regarding micro-macrostructure regulation. In view of the great potential of the 3D printing of polymer matrix composites derived from the resourceful combination of materials and architecture, the proposed Special Issue will cover all areas realized to the theory, technology, and methodology of the 3D printing of polymer matrix composites, especially the novel design and application of the functional 3D printing devices.

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Deadline for manuscript submissions

closed (20 March 2024)



Materials

an Open Access Journal
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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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