



Advance in 3D/4D Printing of Polymeric Materials

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Message from the Guest Editors

Additive manufacturing (AM) as a field of research has seen significant advancement in areas including systems engineering, software, modelling, materials chemistry, and quality certification. In terms of polymer-based AM methods specifically, the materials toolset is constantly expanding to include the printing of materials for engineering, biocompatible, and responsive formulations. These materials coupled with the geometric freedom of 3D printing enable research towards applications in personalized medicine, microfluidics, load-bearing structures, soft robotics, aerospace, and automotive industries. Furthermore, incorporating responsive materials, such as shape memory materials, can produce structures with programmable restructuring. Stimulus-induced structural change is termed 4D printing, and provides yet another facet of control for design freedom. This Special Issue will focus specifically on advancements that expand the capabilities of 3D and 4D printing in relation to polymeric materials.





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