



Advanced Polymeric Materials for 3D/4D Printing Technology

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Deadline for manuscript
submissions:

closed (25 April 2024)

Message from the Guest Editors

It is known that 3D-printing processes combine excellent characteristics in terms of customization and waste reduction, in addition to their demonstrated potential of optimization. Furthermore, they are suitable to produce high-performance lightweight parts and/or parts with complex geometries that would require considerable extra work if produced using conventional processes. The introduction of advanced materials in the 3D-printing field involves significant investigation under different aspects, such as recommended process parameters and resulting mechanical properties. Special attention is given to bio-based and natural fiber-reinforced polymers due to their characteristics in terms of processability and performance.

This Special Issue aims to provide the latest developments of polymeric materials for 3D/4D-printing technologies. Studies involving, but not limited to, the convergence of process parameters, experimental characterization of resulting properties, numerical modeling of mechanical behavior, and mechanism-based failure analyses are welcome in this Special Issue.





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Message from the Editor-in-Chief

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