



3D Printing of Polymer Composites

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Message from the Guest Editors

Three-dimensional (3D) printing, or additive manufacturing (AM), has revolutionized the ways in which we manufacture structures, with advantages such as customized shapes, fast prototyping, minimized waste, and lower energy costs than traditional techniques. It has been employed for structural fabrication, with dimensions ranging from nano- to meter-scale, and is widely applied in areas such as optics, acoustics, electronics, mechanics, thermodynamics, biology, and medicine. Although it is still at an early stage, composite 3D printing is gaining traction within the manufacturing industry. The tool-free fabrication technique for composites not only makes the process of fabricating composite parts much faster and less costly, but also opens the possibility of multifunctional composite structures for new applications. The aim of this Special Issue is to explore the latest achievements in computational design and fabrication, process optimization, intelligent measurement and control, machine learning-based 3D printing, polymer composite design, multifunctional smart polymers, and their fascinating applications.





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