Special Issue

Advanced Additive Processes and 3D Printing for Polymer Composites

Message from the Guest Editors

Additive manufacturing (AM) techniques are mainly fused deposition modeling (FDM), liquid powder 3D printing (PLP), selective laser sintering (SLS), stereolithography (SLA), digital light processing (DLP), and robocasting. The range of polymers used in AM covers thermoplastics, thermosets, elastomers, hydrogels, functional polymers, recycled polymers, and green composites. Combining cutting-edge 3D/4D printing technologies with innovative materials is driving disruptive research advances, impacting the development of custom multifunctional capabilities demanded in domains ranging from aerospace to biomedical fields. However, significant challenges still lie ahead, and material selection, multi-material printing, print scalability, material processability, structure integrity, and stability still need to be resolved before we can adopt 3D/4D printing technologies on a much larger scale. This Special Issue aims to collect cutting-edge original research articles and reviews on the latest advances in additive processes, technical challenges, and prospects in developing 3D/4D printing techniques for polymer composites with improved properties and applications.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker
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