Special Issue

3D Printing of Polymer Composites

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.

Guest Editors

Dr. Hao Wang

Dr. Yi Xiong

Dr. Guo Dong Goh

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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers

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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
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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