Special Issue

Mechanics of 3D-Printed Polymers and Polymer Composites

Message from the Guest Editors

The additive manufacturing (AM), commonly referred to as 3D printing, of polymers (including thermoplastics and thermosets) has attracted increasing attention during the last three decades due to the following advantages: (I) parts with very complex geometries can be fabricated, (II) the process has very high precision, and (III) the process is cost-effective. These advantages give 3D printing great potential in various industries. To improve the mechanical properties of pure polymeric materials for the manufacturing of functional parts, one method is to build composite materials by adding different reinforcements such as fibers (both short and continuous). Therefore, 3D printing technology has seen continuous development for the production of polymer matrix composite parts. Contributions related to the latest developments in the 3D printing of polymers and polymer composites and addressing one of the following are welcome to be submitted to this Special Issue:

- Process–structure-property relationships;
- Mechanical properties;
- Numerical modelling.

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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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