Special Issue

Polymeric Metamaterials: Design, Fabrication, Testing and Modeling

Message from the Guest Editors

Polymeric metamaterials are architected cellular materials, also known as lattice materials, which are made of polymeric materials or their composites. Metamaterials can have architected microstructures that are inspired by nature, topology optimization and/or human engineering intuition, and provide multifunctional attributes that cannot be achieved by conventional polymeric materials and composites. There has been an increasing interest in the designing, fabricating, testing and modeling of polymeric metamaterials. Therefore, the scope of this Special Issue is intended to assemble a collection of recent research on the design, fabrication, testing and modeling of polymeric metamaterials and composites including, but not limited to, topics such as the property–topology–material relationship, new lattice topologies, macro/micro-additive manufacturing techniques for such materials, inverse design using machine learning techniques, effect of manufacturing defects on lattice material properties, multiscale topology optimization and generative design methods, etc.

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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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