



Mechanical and Structural Behavior for Polymer Composites

Guest Editor:

Dr. Xin Zhang

Department of Mechanics and
Aerospace Engineering, Southern
University of Science and
Technology, Shenzhen 518055,
China

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Message from the Guest Editor

Dear Colleagues,

Polymer composites have attracted great research interest in many areas and industries, such as aerospace engineering, transportation industry, marine engineering, construction industry, sports facilities, medical industry, etc., due to their advanced properties. As a result, it is of great significance, as well as very challenging, to investigate their mechanical properties like strength, modulus, toughness, energy absorption capacity, failure mechanism, etc., and the structural properties of polymer composites at different loading conditions to guarantee and optimize the safety and reliability of the structures during different applications. The relevant areas include, but are not limited to, the following topics:

- Fiber-reinforced polymer composites with multi-functions;
- Structural properties of advanced polymer composites;
- Mechanical properties of polymer metamaterials with advanced structures;
- Dynamic behavior and failure of composites including plasticity and fracture;
- Design and optimization of soft composites;
- Additive manufacturing composites and structures.





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Editor-in-Chief

Prof. Dr. Alexander Böker

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

Message from the Editor-in-Chief

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Polymers Editorial Office
MDPI, St. Alban-Anlage 66
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