

Special Issue

Advanced Polymer Composites with High Mechanical Properties

Message from the Guest Editors

The demand for lightweight, durable, and high-strength materials is steadily rising across aerospace, automotive, marine, defense, and energy sectors. Among the most promising solutions, advanced polymer composites stand out due to their exceptional mechanical performance, design flexibility, and multifunctionality. This Special Issue, “Advanced Polymer Composites with High Mechanical Properties”, aims to present the latest research progress in the development, characterization, and application of polymer-based composites with enhanced structural capabilities. We welcome contributions on a wide range of topics, including (but not limited to) fiber-reinforced thermoset and thermoplastic systems, hybrid and multi-scale composites, and nanofiller-modified polymers. Studies focusing on interface engineering, fracture and fatigue resistance, impact performance, wear and durability, and structural behavior under harsh service conditions are of particular interest. We also seek experimental and modeling approaches that provide deeper insight into property–structure relationships.

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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 4.9.

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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