## **Special Issue**

## Mechanical and Structural Behavior for Polymer Composites

## Message from the Guest Editor

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 multifunctions;
- 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.

#### **Guest Editor**

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### Deadline for manuscript submissions

closed (15 February 2025)



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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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