

## Special Issue

# Advances in Mechanical Performance of Fiber-Reinforced Polymer Composites

### Message from the Guest Editor

Fiber-reinforced polymer composites (FRPCs) play a critical role in aerospace, automotive, marine, civil, and energy applications owing to their exceptional specific strength, stiffness, design flexibility, and lightweight characteristics. In recent years, research efforts have evolved beyond improving conventional strength and stiffness, shifting toward the fundamental mechanisms that govern long-term structural reliability, such as damage tolerance, interfacial load transfer, fatigue resistance, fracture toughness, and multiscale toughening. In this respect, advanced strategies, including nano-modified polymer matrices, interfacial engineering, hybrid and multiscale reinforcements, and process-driven microstructural control, have demonstrated exceptional potential for enhancing interlaminar performance, impact resistance, and progressive damage behavior of FRPCs.

This Special Issue aims to present the latest experimental and theoretical advances in the structure–property–process relationships governing the mechanical performance of polymer composite systems.

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### Guest Editor

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### Deadline for manuscript submissions

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## Polymers

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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 4.9.

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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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