

Special Issue

Mechanical Properties and Structure of Polymers and Polymer Composites

Message from the Guest Editors

This Special Issue "Mechanical Properties and Structure of Polymers and Polymer Composites" delves into the realm of advanced materials crucial to modern industrial applications. Polymers and polymer composites, extensively utilized across industries, offer a unique blend of versatility, durability, and design flexibility. This Special Issue spotlights the intersection of mechanical properties and structural composition, unravelling the intricate interplay between material behaviour and processing techniques. Notably, the importance of process–structure–property performance demands an in-depth understanding of manufacturing variables connected to respective mechanical responses. Additionally, fractography and fracture mechanics unveil the complexities of failure mechanisms, guiding material enhancement and safety assurance. To fully comprehend the impact of fractures on structural applications, a thorough analysis of their effects in static, fatigue, and creep phenomena is necessary. This Special Issue navigates the essential facets of polymers and polymer composites, catering to researchers striving to unlock novel applications and elevate industrial standards.

Guest Editors

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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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