Special Issue

Advances in Mechanical Testing of Polymer Composites

Message from the Guest Editors

Polymer composites have become an indispensable class of materials in modern engineering. As the demand for polymer composites continues to grow, there is an evolving need to develop more effective testing methodologies to ensure their reliability and performance under diverse and often extreme conditions, as well as to advance our understanding of the mechanisms governing their behavior. This Special Issue is dedicated to addressing the current challenges and recent developments in mechanical testing methods for polymer composites, with a particular focus on non-destructive testing (NDT), multifunctional composites, composite joints, testing in extreme environments, fatigue testing, microscopic interfaces, impact testing, the experimental validation of computational methods, additive manufactured composites, and in situ testing techniques. These emerging areas of research are critical for enhancing the safety, durability, and overall efficiency of polymer composites and will help to unlock the full potential of these materials in a wide range of applications.

Guest Editors Dr. Daniel R. Merkel

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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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