Special Issue

Thermo-Mechanical and Physical Behavior of Advanced Polymeric Materials

Message from the Guest Editor

Polymeric materials are essential in a wide range of applications, from structural components and packaging to energy, biomedical, and electronic devices. However, their thermo-mechanical and physical behavior under complex operating conditions remains a major challenge when it comes to ensuring reliability, durability, and high performance. This Special Issue collects original research articles and comprehensive reviews dealing with the thermomechanical behavior and physical properties of polymers, polymer blends, and polymer-based composites. We are particularly pleased to receive papers dealing with the design and characterization of advanced polymer systems, multifunctional composites, and nanostructured materials with improved functionality. Topics of interest include viscoelasticity, thermal stability, fracture, fatigue, creep, and relaxation processes. Both experimental studies and modeling or simulation approaches are encouraged, particularly those that establish structure-property relationships and provide predictive insights into material performance. We look forward to receiving your contributions.

Guest Editor

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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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