

Special Issue

Challenges and Trends in Polymer Composites—2nd Edition

Message from the Guest Editor

Polymer composites are multi-phase materials that combine the polymer matrix with other organic or inorganic materials, resulting in synergistic mechanical properties that cannot be achieved using either component alone. Enhanced interest in lightweight, low density, toughness, stiffness, thermal behavior, low cost, excellent chemical and mechanical stability and other specific properties depending on the desired application have led to significant research on composite materials based on polymers. Today, composite materials based on polymers are at the forefront of material technology, with their performance and cost enhanced for ultra-demanding applications and various sectors such as the automotive industry, aerospace industry, aeronautics, agriculture, wastewater treatment, biomedicine, manufacturing, construction and the marine sector. For example, in research, one area of research focuses on the development of multifunctional composites with more than one property, tailored as per the design requirements and in order to achieve low density.

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 4.7.

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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