

Special Issue

Application and Characterization of Polymer Composites

Message from the Guest Editor

The application and characterization of polymer composites has witnessed significant growth and innovation in recent years. This multidisciplinary domain encompasses the design, fabrication, testing, and utilization of polymer composites across various industries, including the aerospace, automotive, construction, renewable energy, biomedical industries, among many others. Characterization plays a pivotal role in understanding and optimizing the performance of polymer composites. Advanced analytical techniques enable researchers to elucidate the structure–property relationships of composites. Polymer composites, consisting of a polymer matrix reinforced with fibers, particles, or additives, offer a diverse array of material structures (films, coatings, and hydrogels), making them suitable for a wide range of applications. Future research directions may include smart and multifunctional composites and novel applications in emerging technologies. This dynamic field offers exciting opportunities for researchers, educators, and industry professionals to shape the future of materials and technology.

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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