

Special Issue

Advanced Polymer Blends: From Processing to Characterisation and Application

Message from the Guest Editors

Polymer blends are mixtures of two or more different polymers that are combined to create a new material with unique properties, and the objective of blending polymers is to achieve a combination of properties from the constituent polymers that cannot be obtained from a single polymer alone. This Special Issue welcomes original research articles, reviews, and perspectives on topics related to polymer blends, including but not limited to: 1. Novel processing techniques for polymer blends; 2. Characterization of polymer blends using advanced analytical techniques (e.g., spectroscopy, microscopy, rheology); 3. Compatibilization of polymer blends and their analyses; 4. Theoretical modeling and simulation of polymer blend properties; 5. Applications of polymer blends in various fields (e.g., packaging, biomedical, automotive, construction); 6. Development of polymer blends with improved properties such as mechanical, thermal, and chemical resistance; 7. Recycling and sustainability of polymer blends; 8. Role of functional particles in tuning the properties of polymer blends towards a specific application.

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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