

Special Issue

Epoxy Polymers and Composites

Message from the Guest Editors

Epoxy resin plays a significant role in modern industry. Epoxy products in various forms such as coatings, adhesives, advanced composites matrixes are extensively employed in the fields of aerospace, electronic information, rail transit, and construction. Currently, the development of epoxy polymers and composites is facilitating the advancement of high-performance materials, multifunctionality, and environmental sustainability. However, some challenges remain. For instance, traditional epoxy resins possess a relatively low toughness; researchers lack a systematic and in-depth understanding of cross-linked networks, their performance and the low-cost preparation of resins and their composites; and the performance of new eco-friendly epoxy resins is inferior to that of traditional resins. The scope of the Special Issue includes, but is not limited to, the following:

- New epoxy resins;
- Epoxy-based polymers for high performance;
- Functional epoxies;
- Green, recycle and self-healing epoxies;
- Interface modification of epoxy composites;
- Epoxy composites processing;
- New analysis and testing methods;
- Epoxy and its composites simulation, containing DFT, MS, FEA, etc.

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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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