Special Issue

Epoxy Resins and Epoxy-Based Composites: Research and Development

Message from the Guest Editor

Amongst the various thermosetting materials, epoxy resins (EPs) possess superior characteristics and therefore currently constitute the most widely used polymer resins. EPs will continue to be at the forefront of many thermoset applications due to their versatile properties. At present, researchers and industries are in a continual quest to develop multi-functional and cost-efficient EPs or epoxy-based composites designed for various applications, including packaging, civil, electromagnetic interference (EMI) shielding, flame-retardant materials, coatings, and biomedical applications.

Although epoxy resins are widely used in industrial applications, new processes and application technologies necessitate pushing the benchmark further. An epoxy resin that is very tough yet flexible and moldable is highly desired in aviation, automotive and rail vehicles, and shipbuilding industries; in some of the automated processes found in these industries, rapid curing is essential. In some niche markets where megastructures are manufactured in pieces, composite parts need to exhibit toughness and flexibility to withstand wear and tear during the manufacturing stages.

Guest Editor

Dr. Seong-Hwang Kim

Korea Institute of Convergence Textile, Gyeongsan-si, Gyeongsangbuk-do, Republic of Korea

Deadline for manuscript submissions

30 November 2025

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/227997

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers

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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
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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