

Special Issue

Toughened Thermosets

Message from the Guest Editor

Thermosetting resins are a class of materials with a growing importance: key technologies that are of utmost importance for facing the challenges of the future are impossible without the use of thermosets. Lightweight construction in transportation including using high performance adhesives or fiber-reinforced composites or the miniaturization of electronic devices is an excellent example. New technologies to harvest renewable energies like wind, solar, geothermal, or tidal need them as well. Thermosetting materials are characterized by the three-dimensional network formed upon curing. Close-meshed networks provide excellent mechanical performance, but unfortunately they significantly increase brittleness. To meet the demands of applications, nearly all modern resin systems are toughened. Various different technologies and approaches can be used to obtain tough and stiff materials. It is crucial to balance chemistry and morphology and maintain optimal processability of toughened resins. Consequently the choice of toughening technology often depends on the process and/or the application of the thermosetting material.

Guest Editor

Dr. Sprenger Stephan

Market Development Composites & Lightweight Construction, Evonik Nutrition & Care GmbH, Essen 21502, Germany

Deadline for manuscript submissions

closed (30 September 2020)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/43269

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

[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)





Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



[mdpi.com/journal/
polymers](https://mdpi.com/journal/polymers)



About the Journal

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)