



Advanced Stimuli-Responsive Polymer Composites

Guest Editor:

Dr. Lucas Kreuzer

German Aerospace Center (DLR),
DLR-Institute of Material Physics
in Space, Köln, Germany

Deadline for manuscript
submissions:

closed (20 December 2024)

Message from the Guest Editor

Dear Colleagues,

Stimuli-responsive polymer composites feature highly diverse functional properties in response to various environmental stimuli such as temperature, light, pH, magnetic and electric fields, and enzymes. In recent decades, the response mechanisms of numerous selected polymer matrices and functional additives (e.g., metals, ceramics, or nanostructured carbon) have been the subject of intensive studies, and a fundamental understanding of the structure–dynamics–performance relationship has been developed.

This Special Issue focuses on the latest achievements in the material and structure design, characterization, and employment of novel and advanced stimuli-responsive polymer composites. Review and regular research articles as well as short communication of all cross-disciplinary research studies, in which novel stimuli-responsive polymer composites are involved, are encouraged to publish their recent findings in this Special Issue of *Polymers*.

Dr. Lucas Kreuzer
Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker

Fraunhofer-Institut für
Angewandte Polymerforschung,
Lehrstuhl für Polymermaterialien
und Polymertechnologie,
Universität Potsdam,
Geiselbergstraße 69, 14476
Potsdam-Golm, Germany

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 4.9.

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.

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)

Contact Us

Polymers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/polymers
polymers@mdpi.com
[X@Polymers_MDPI](#)