Special Issue

Advances in Thermoresponsive Polymers

Message from the Guest Editor

Thermoresponsive polymers are materials which are able to phase separate from the solvent with a sharp and often reversible transition in response to thermal stimuli. The possibility of inducing a dynamic response through temperature changes, which are commonly encountered in many applications or can be artificially applied at low cost and avoiding the contamination of the fluid, makes these materials extremely appealing. As a result, thermoresponsive polymers are currently being investigated for application in many fields, ranging from biomedicine to optical sensors, chromatography, as well as oil and gas. Despite being a rather recent research area, the first examples of thermoresponsive systems are now appearing on the market. Given the attractiveness of these polymers and the extensive research efforts made in recent years, this Special Issue aims to report the recent advances on the topic, from both theoretical and applied perspectives. Therefore, contributions on modelling and simulations as well as on experimental work are welcome for this Special Issue.

Guest Editor

Dr. Mattia Sponchioni

Department of Chemistry, Materials and Chemical Engineering “Giulio Natta”, Politecnico di Milano, via Mancinelli 7, 20131 Milano, Italy

Deadline for manuscript submissions

closed (25 January 2022)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/65646

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

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

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)

MDPI