



Polymers and Digitalization

Guest Editors:

Dr. Stefan Zechel

Laboratory of Organic and
Macromolecular Chemistry
(IOMC), Friedrich Schiller
University Jena, Humboldtstr. 10,
D-07743 Jena, Germany

Prof. Dr. Ulrich S. Schubert

Laboratory of Organic and
Macromolecular Chemistry
(IOMC) Jena Center for Soft
Matter (JCSM), Friedrich-Schiller-
Universität Jena, Humboldtstr.
10, D-07743 Jena, Germany

Deadline for manuscript
submissions:

closed (31 December 2023)

Message from the Guest Editors

Ongoing digitalization has significantly affected research into polymer science and is gaining increasingly more attention. Thus, automated synthesis, characterization and purification protocols have been developed, enabling a fast screening of polymeric materials. Furthermore, synthetic robots have allowed the parallel synthesis of polymer libraries, resulting in a fast screening of different compositions and properties. Recently, artificial intelligence and machine-learning methods have been developed in order to predict properties of polymers. Thus, ongoing digitalization is changing the way we perform research into polymer science.

The current Special Issue is focusing on all aspects of digitalization in polymer science, ranging from new aspects in the field of the automation of synthesis, characterization or purification over the utilization of robots for the preparation of new materials and polymer libraries to, finally, the application of artificial intelligence and machine-learning (AI/ML) routines for the predication of polymer-relevant aspects. The generation of data-using theoretical approaches for AI/ML programs will also be a part of the Special Issue.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 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 5.0.

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