# Special Issue

# Carbon-Based Functional Polymers: Design, Properties and Applications

## Message from the Guest Editor

Synthetic carbon-based polymers are structurally tunable materials integral to modern life, whether for commodity products, such as clothing, food packaging, or household goods, or for specialist applications, such as microelectronics, renewable energy generation, or robotics. The success story of carbon-based polymers has its origin in their close coupling with the liquid fuel industry, optimized production methods, low costs, and immense chemical diversity; these features allow material properties to be precisely tailored to a huge range of different applications. In recent years, the research of new carbon-based polymers synthesis, functionalization, and their applications is a hot topic that is rapidly evolving in both academia and industry. This Special Issue is devoted to the most recent research on these topics, covering all aspects including synthesis and application of novel carbon-based polymers and structure–property relationships of carbon-based polymers.

## Guest Editor

Dr. Shengyu Dai

Institutes of Physical Science and Information Technology, Key Laboratory of Structure and Functional Regulation of Hybrid Materials of Ministry of Education, Anhui University, Hefei 230601, Anhui, China

## Deadline for manuscript submissions

closed (25 May 2023)

**Polymers**

**an Open Access Journal by MDPI**

**Impact Factor 4.9**
**CiteScore 9.7**
**Indexed in PubMed**

mdpi.com/si/100731

*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

MDPI

# 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 )