Special Issue

Functional Polymers for Water Pollution Detection and Adsorption

Message from the Guest Editors

Industrialization, urbanization, domestic and agricultural activities, and municipal effluents are directly linked to increased water contamination, which can have a serious impact on human and animal health/or living organisms in the ecosystem. The growing awareness of environmental and climatic issues surrounding the supply and consumption of clean water is resulting in a worldwide rise in the demand for promising and sustainable adsorbents, detectors from low-cost, natural, abundant, and renewable resources for the remediation of organic and inorganic pollutants, and their transformation and regeneration into non-hazardous by-products. To mitigate the impact of water contaminants, functional polymers emerge as a powerful tool for the detection and adsorption of pollutants. These polymers possess intriguing properties, including high specificity, multifunctional design capabilities, and tunable chemical properties. Functional polymers are formulated using various functional groups or specific binding sites that enable them to selectively capture pollutants, such as dyes, pharmaceutical residues, and heavy metal ions, from contaminated water.

Guest Editors

Dr. Thabang Hendrica Mokhothu

School of Chemical and Physical Sciences, University of Mpumalanga, Mbombela, South Africa

Dr. Somandla Ncube

Department of Chemistry, Sefako Makgatho Health Sciences University, P.O. Box 60, Medunsa 0204, South Africa

Deadline for manuscript submissions

31 January 2026

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/250230

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