Special Issue

Polymer–Water–Solid Interfaces: Molecular Mechanisms and Separation Processes

Message from the Guest Editors

Polymer interactions at solid–water interfaces play a critical role in a wide range of industrial, environmental, and technological processes, including solid–liquid separation, flocculation, adsorption, water treatment, mineral processing, and surface functionalization. Despite their importance, the molecular mechanisms governing polymer adsorption, conformation, charge regulation, and interfacial performance in complex aqueous environments remain insufficiently understood. This Special Issue aims to bring together experimental, computational, and multiscale studies that elucidate the behavior of polymers at solid–water interfaces, with particular emphasis on linking molecular-level interactions to macroscopic separation and interfacial processes. Contributions addressing both synthetic polymers and biopolymers, as well as idealized and realistic aqueous conditions, are welcome.

Guest Editors

Dr. Gonzalo R. Quezada

Escuela de Ingeniería Química, Facultad de Ingeniería, Universidad del Bio-Bio, Concepción 4030000, Chile

Dr. Ricardo Jeldres

Departamento de Ingeniería Química y Procesos de Minerales, Universidad de Antofagasta, Antofagasta 1240000, Chile

Deadline for manuscript submissions

31 August 2026

Polymers

an Open Access Journal by MDPI

Impact Factor 5.8
CiteScore 11.0
Indexed in PubMed

mdpi.com/si/270909

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 5.8
CiteScore 11.0
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 5.8.

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
Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für Polymermaterialien und Polymertechnologie, Universität Potsdam, Geiselbergstraße 69, 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 (Polymers and Plastics)

MDPI