Special Issue

Advances in Polymer Rheology

Message from the Guest Editors

This Special Issue of Gels will attempt to publish high-quality research papers covering the most recent advances as well as comprehensive reviews addressing novel and state-of-the-art topics from active researchers in the field of rheology addressing a range of characterization and processing techniques that are critical for tailoring and broadening the various aspects of polymer materials, as well as the numerous advantages that polymer-based materials offer. Specific topics covered include, but are not limited to:

- linear and nonlinear viscoelasticity of physically/chemically cross-linked polymer gels/polymeric nanogels;
- frictional rheology of polymer gels and rubbers;
- rheological response of polymer solutions, biopolymers, polymer composites and polymer blends under large-amplitude oscillation shear;
- rheology-based approaches in functional materials preparation;
- and biorheology and hemorheology for the delivery of pharmaceuticals.

This Special Issue provides a cutting-edge resource for researchers and scientists working in various fields involving polymers, biomaterials, composites, and functional materials.

Guest Editors

Dr. Miao Du

Department of Polymer Science and Engineering, Zhejiang University, Hangzhou 310027, China

Prof. Dr. Qiang Wu

College of Chemistry and Materials Engineering, Zhejiang agriculture and Forestry University, Hangzhou 311300, China

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

mdpi.com/journal/gels

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About the Journal

Message from the Editor-in-Chief

Gels (ISSN 2310-2861) is recently established international, open access journal on physical and chemical gel-based materials. The journal aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. General topics include but not limited to synthesis, characterization and applications of new organogels, hydrogels and ionic gels made either from low molecular weight compounds or polymers, composite and hybrid materials where a metal is by some means incorporated into the gel network, and computational studies of these materials in order to provide a better understanding of gelation mechanism. We cordially invite you to consider publishing with us and contribute with your own grain of sand to the advance in this fascinating field.

Editor-in-Chief

Prof. Dr. Esmaiel Jabbari
Biomimetic Materials and Tissue Engineering Laboratory, Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208, USA

Author Benefits

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 12.5 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).