Special Issue

Recent Advances in Microgels/Nanogels

Message from the Guest Editors

This Special Issue of *Gels* aims to explore the chemistry and physics underlying the synthesis, properties, characterization and biomedical, nanotechnological, environmental and catalytic applications of microgels/nanogels. Original research articles and critical reviews that discuss cutting-edge research on microgels/nanogels are welcome, as are experimental and theoretical studies on homo-polymer, copolymer and core–shell polymer microgels. Topics include, but are not limited to: the synthesis of microgels/nanogels using various methodologies, including free-radical precipitation polymerization and microfluidic fabrication; the properties of microgels/nanogels, including their swelling/deswelling in the presence of various stimuli; methods of characterizing microgels/nanogels, including microscopic, scattering and spectroscopic methods; microgels as adsorbents; microgels loaded with inorganic nanoparticles; waste-water remediation using microgels/nanogels; microgels/nanogels for drug delivery; microgels/nanogels for sensing applications; and hybrid microgels for catalysis

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Deadline for manuscript submissions

closed (31 March 2024)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/157586

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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

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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).