

Special Issue

Multifunctional Polymer Nano-, Micro- and Hydro- Gels: Synthesis, Properties and Applications

Message from the Guest Editors

This Special Issue on “Multifunctional Polymer Nano-, Micro- and Hydro- Gels: Synthesis, Properties and Applications” is dedicated to the recent advances in the macro- and micro-hydrogel field. Within this context, a broad range of subjects, including hydrogel preparation and characterization, mechanism expression, and applications, will be discussed. This Special Issue focuses on the design of functional macro- and micro-hydrogels by controlling their synthesis and characterization, including theoretical and fundamental aspects. Their physical and chemical properties can be affected by factors such as the choice of monomers, polymers and crosslinking methods. Research should cover new methods and ideas for preparing gels, and the construction of new functional hydrogel materials which have advanced interdisciplinary applications. We look forward to receiving your valued contribution to this Special Issue.

Guest Editors

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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. Esmail Jabbari

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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).