Special Issue

Feature Papers in Chemistry and Physics of Biological Gels

Message from the Guest Editor

The aim of this Special Issue is to elucidate, either computationally by molecular dynamic or mesoscale simulation as well as experimentally, the role of these interactions in the observed macroscale properties at different scales. The scope of this Issue includes peptides, proteins, carbohydrates, nuleic acids, proteoglycans, glycoproteins, and proteolipids. Furthermore, discussions should incorporate the measurement and quantification of these interactions and the rules governing their self-assembly and structure formation at different length scales. The properties which should be considered include, among others, degradability, mechanics, rheology, micellization, gelation, surface adsorption, bioadhesion, ligand–receptor interaction, and immune reaction.

Guest Editor

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Deadline for manuscript submissions

closed (20 January 2025)

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About the Journal

Message from the Editorial Board

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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 13.5 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

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