

Special Issue

Preparation, Structure-Property Relationships, and Applications of Emulsion Gels

Message from the Guest Editors

Emulsion gels represent a unique class of materials that combine the properties of oil-water biphasic systems and gel networks, offering distinct structural and functional attributes. The preparation of emulsion gels often involves interactions between colloidal droplets and gel-forming agents resulting in matrices with semi-solid rheological behavior. Depending on their composition, these systems can serve a variety of applications, such as food structuring agents, delivery vehicles in pharmaceuticals, and components in personal care.

Despite the promising potential of emulsion gels, challenges remain in exploring their structure-property relationships, optimizing their stability, and expanding their application in emerging fields. Understanding the role of interfacial phenomena, gelation kinetics, and the influence of external factors on emulsion gel properties is essential for driving advancements in the field.

It is our pleasure to invite you to submit manuscripts to this issue, and contribute to address research gaps, propose novel methodologies, and explore interdisciplinary applications.

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Deadline for manuscript submissions

31 December 2025



an Open Access Journal
by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/229432

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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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