



gels



an Open Access Journal by MDPI

Advances in Colloidal Hydrogels

Guest Editors:

Prof. Dr. To Ngai

Department of Chemistry, The Chinese University of Hong Kong, Hong Kong 999077, China

Dr. Fuguo Liu

College of Food Science & Engineering, Northwest A&F University, Yangling 712100, China

Deadline for manuscript submissions:

closed (31 December 2022)

Message from the Guest Editors

Dear Colleague,

Hydrogel is a three-dimensional polymer network system based on hydrophilic macromonomers, which integrates water absorption, water retention, and slow release. Depending on the source of constituent polymers, hydrogels can be classified as natural, synthetic or hybrid hydrogels. In recent years, interpenetrating network gels, dual-network hydrogels, and smart hydrogels with good mechanical properties, response performance under specific external conditions (such as temperature, pH, and ionic strength), good surface properties, as well as biodegradability, have aroused great interest among scientists. This special issue aims to discuss the latest research progress of novel hydrogels, including the preparation, modification methods, formation mechanisms, structure and phase behavior, as well as their applications in different fields, in order to provide ideas for further research and development of hydrogels. This is a very useful resource for researchers who are actively involved in the development of gel-based functional foods and drugs. We accept original research articles, critical review papers, and commentaries.

Guest Editors



mdpi.com/si/93442

Special Issue



gels



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Esmail Jabbari

Biomimetic Materials and Tissue Engineering Laboratory,
Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208, USA

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q1 (Polymer Science) / CiteScore - Q2 (Polymers and Plastics)

Contact Us

Gels Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/gels
gels@mdpi.com
[X@Gels_MDPI](#)