

Special Issue

Multifunctional Aerogels: Types, Synthesis and Applications

Message from the Guest Editor

This Special Issue is dedicated to bridging this gap between laboratory potential and practical deployment. We seek to showcase research that moves beyond proof-of-concept to address the complexities of real-world application. Key areas of interest include the following:

Energy Applications: supercapacitors, batteries, and catalytic supports requiring both high surface area and electrical conductivity;

Environmental Remediation: advanced sorbents and filters for water purification and gas separation that combine high capacity with selectivity and regenerability;

Smart Devices: aerogels as responsive materials in sensors, drug delivery systems, and soft actuators;

Sustainable and Scalable Manufacturing: pathways to cost-effective, environmentally benign production of multifunctional aerogels.

We cordially invite contributions of original research and reviews that demonstrate how multifunctional aerogels provide tangible solutions to applied challenges.

Guest Editor

Dr. Tian Mai

School of Materials Science and Engineering, Zhejiang Sci-Tech University, Hangzhou 31001, China

Deadline for manuscript submissions

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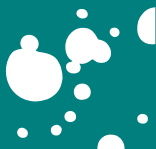


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Gels
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
gels@mdpi.com

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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

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

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Rapid Publication:

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).