

Special Issue

Advances in Silica Xero- and Aerogels: From Synthesis to Structure–Activity Relationship

Message from the Guest Editors

This Special Issue on “Advances in Silica Xero- and Aerogels: From Synthesis to Structure–Activity Relationship” is dedicated to recent developments from fundamental aspects to the synthesis, characterization, and applications of silica xero- and aerogels. Different synthesis routes can be applied for the synthesis of silica particles. Especially the sol–gel technique offers a flexible and versatile approach to synthesize a wide range of nano-/micro-structures. The present Special Issue has the general aim to present the different synthesis approaches, the relations between the synthesis parameters, and the final product properties. The increasing number of scientific papers on the relation between silica materials/composites’ structure and activity shows the importance of this topic; therefore, this Special Issue also focuses on silica xero- and aerogels’ chemical composition and textural and morphological characterization at the micro- and nano-scale level. We welcome papers about the application of different silica materials and composites in biology, optics, catalysis...

Guest Editors

Dr. Zoltán Dudás

Neutron Spectroscopy Department, Centre for Energy Research, H-1121 Budapest, Hungary

Dr. Adél Len

Neutron Spectroscopy Department, Centre for Energy Research, H-1121 Budapest, Hungary

Deadline for manuscript submissions

closed (20 September 2023)



Gels

an Open Access Journal
by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/104536

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

[mdpi.com/journal/
gels](https://mdpi.com/journal/gels)





Gels

an Open Access Journal
by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed



[mdpi.com/journal/
gels](https://mdpi.com/journal/gels)



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

Author Benefits

High visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (Organic Chemistry)

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).