

Special Issue

Gels for Efficient Energy Storage and Conversion

Message from the Guest Editor

Gels, a remarkable class of soft materials, have garnered considerable attention in recent decades due to their versatile applications in advancing energy storage and conversion technologies. This Special Issue titled "Gels for Efficient Energy Storage and Conversion" aims to provide an interdisciplinary platform for researchers to highlight groundbreaking research and share critical insights into the design, synthesis, and functionalization of gel-based materials in energy storage and conversion. Including the rational design and synthesis of gels, structure–performance regulation, dynamic behaviors, mechanistic studies, and advanced characterization and computational modeling.

Authors can submit research articles, reviews, and perspectives that address challenges and advancements in gel design, from fundamental principles to application-oriented functionalization. Researchers from diverse disciplines are encouraged to participate in this interdisciplinary exploration and strengthen knowledge exchange to foster a deeper understanding and inspire innovative and broad applications of gel-based materials for carbon-zero energy systems.

Guest Editor

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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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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).