Special Issue

Polymer Aerogels and Aerogel Composites

Message from the Guest Editors

This Special Issue of *Gels* is dedicated to the development of polymer aerogels with enhanced properties for various applications. We sincerely invite you to contribute a work. The scope of this Special Issue includes, but is not limited to, the following topics:

- Novel polymer aerogels including new types of polymer aerogels, polymer aerogels with tunable physical and mechanical properties, green polymer aerogels, etc.;
- Polymer aerogels with enhanced properties, i.e., mechanical properties, rigidity or flexibility, hydrophobicity, thermal insulation, dielectric constant, and optical performance;
- Surface modification of polymer aerogels;
- Modeling and simulation involving polymer aerogels synthesis and properties;
- Incorporation of nanoparticles or nanomaterials within polymer aerogels;
- Polymer aerogel particles;
- Novel characterization methods such as the nondestructive method;
- Process development and cost reduction of polymer aerogels;
- Application of polymer aerogels, polymer aerogel composites, and polymer aerogel particles.

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About the Journal

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.

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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).

