Special Issue

Preparation and Characteristics of Aerogel-Based Materials

Message from the Guest Editor

Aerogels are porous materials consisting of nanoparticles or polymer chains with low density, high specific surface area, and high porosity. The composite aerogels are composed of several kinds of single-component aerogels, as well as the reinforcement by the fibers, whiskers, and nanotubes, etc. Benefitting from their inherent structural merits, aerogels have been widely used in the fields of aerospace, petrochemical engineering, environmental remediation, building energy saving, energy storage and conversion, etc. In addition, the carbon-based and metal-based aerogels have been considered as one of the most promising candidates in the fields of photocatalysts and electrocatalysts. This Special Issue will provide an international forum for researchers around the world to discuss the most recent studies regarding the preparation, characterization, and applications of different kinds of aerogels.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2024)

Gels

an Open Access Journal by MDPI

Impact Factor 5.3
CiteScore 7.6
Indexed in PubMed

mdpi.com/si/153968

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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

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