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Recent Advances in Aerogels and Their Applications

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Deadline for manuscript submissions:
closed (20 October 2023)

Message from the Guest Editors

Dear Colleagues,

Aerogels are very lightweight and porous materials that are receiving increasing attention over the past years due to their outstanding properties. As a result of their high specific area, they have traditionally served as thermal insulators, although their sound absorption capacity has also been recently tested for further insulation purposes. However, greener alternatives are currently being pursued as their use is spreading, with the aim of reducing the environmental impact, and examples range from recycled silica to alternative biomaterials.

This Special Issue focuses on recent research and advances in the applicability of aerogels in a wide range of fields, with environmental approaches (both for their application or their processability) considered especially relevant. Additionally, we welcome contributions regarding their structural improvement (i.e., mechanical performance, porosity, bioactivity). Valorisation of aerogels as waste biomass sources and their subsequent development is also of interest.

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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.

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