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Advanced Aerogels: From Design to Application

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Message from the Guest Editor

Aerogels are a class of highly porous materials with unique properties such as low density, high surface area, and high thermal insulation. These materials have gained significant attention in various fields including energy storage, environmental remediation, and aerospace due to their exceptional properties. In recent years, significant advances have been made in the design and application of aerogels, leading to the development of advanced aerogel materials with enhanced properties and functionalities.

Another important aspect of advancing aerogel technology is the development of novel composite materials that combine aerogels with other functional materials to create materials with enhanced properties. For example, aerogel composites with carbon nanotubes have been shown to exhibit superior mechanical strength and conductivity, making them ideal for applications in structural materials and electronics. Overall, the advancements in aerogel technology have opened up new possibilities for the design and application of these unique materials.



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Special Issue



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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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