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# Advances in Graphene Aerogels

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## Message from the Guest Editor

Graphene aerogels (GAs), due to their high surface area, high porosity, high specific capacitance and high cyclic stability, are anticipated to be used in energy storage as electrodes for electrochemical power sources and LIBs , as supercapacitors, in waste removal and in gas sensing applications. They can also be used in air purification, as solar light photocatalysts , and as phase change materials for better heating–cooling responses . Very often, the application possibility of GAs is increased as a result of nanoparticle addition, which enhances their already remarkable properties. Nitrogen-doped GA (NGA) is a very interesting category of doped GAs due to their mechanical properties, lithium storage and transportation rate of Li+; hence, these materials are usually used as electrode materials.

Topics of interest to this Special Issue include, but are not limited to, the following:

Green synthesis of graphene aerogel and its composites
Applications of graphene aerogel and its composites
Properties of graphene aerogel and its composites

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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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