



Graphene Oxide: Synthesis, Reduction, and Frontier Applications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

In recent years, graphene oxide has received much attention as a precursor for the highly acclaimed graphene nanomaterial. The degree of oxidation in graphene oxide is one of the parameters employed in order to tailor its applications. Other aspects regard the properties of the starting graphite, the exfoliation of graphene oxide, and the subsequent reduction of graphene oxide that can be carried out via chemical, thermal, or electrochemical routes. In particular, the properties of graphene oxide open up new fields of application as high-performance electrodes in energy storage devices, sensing devices, gas adsorption, optoelectronics, or biomedical applications. However, it is challenging to make more efficient devices with required efficiencies by optimizing the availability, environmentally friendliness, and cost of raw materials, synthesis costs, and selecting the size-induced properties of graphene oxide nanomaterials.

It is my pleasure to invite you to submit reviews, regular research papers, and communications to this Special Issue on Graphene Oxide: Synthesis, Reduction, and Frontier Applications.





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Message from the Editor-in-Chief

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