Special Issue

Graphene and Graphene-Related Materials for Energy and Environment: Synthesis and Application

Message from the Guest Editors

This Special Issue aims to highlight recent advances in the synthesis, functionalization, and application of graphene and graphene-related materials in the fields of energy and environmental sustainability. Innovative approaches that harness the unique properties of graphene-related materials for alternative energy solutions will be mainly considered, including their use in fuel cells, accumulators, and capacitors. These materials offer exceptional conductive properties, a highly tunable surface area, and mechanical strength, making them ideal for enhancing the performance and durability of energy storage and conversion systems. In addition to energy applications, this Special Issue welcomes contributions addressing the role of graphene-based materials in environmental remediation, particularly for advanced wastewater treatment techniques such as adsorption, photocatalysis, and membrane-based separation.

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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