

Special Issue

The Properties and Application Progress of Graphene Materials

Message from the Guest Editor

This Special Issue, entitled “**The Properties and Application Progress of Graphene Materials**”, aims to collect and showcase recent advances in the synthesis, functionalization, characterization, modeling, and application of graphene-based materials. Submissions are especially encouraged that explore the use of nanomaterials derived from graphene as probes and sensors, as well as their integration into real-world devices and technologies. Topics include, but are not limited to the following:

- Synthesis and surface modification of graphene-based materials;
- Structural and physicochemical characterization;
- Graphene-based composites and hybrids;
- Applications in chemical and biological sensing;
- Electrochemical and optical sensors using graphene derivatives;
- Modeling and simulation of graphene materials and their interactions;
- Energy storage and conversion applications;
- Environmental and biomedical applications;
- Industrial-scale production, scalability, and integration challenges.

We invite original research articles, reviews, and short communications.

Guest Editor

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Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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