Special Issue

Development and Application of rGO-Based Composites for Next-Generation Electrode Materials in Supercapacitors

Message from the Guest Editor

This Special Issue aims to gather high-quality research and review articles that explore the latest advancements in the design, synthesis, characterization, and application of **rGO-based hybrid composites** for supercapacitors. We invite contributions that address the fundamental and applied aspects of these novel materials. **Topics of Interest Include (but are not limited to):**

- Novel synthetic routes for rGO-based composites with metals, metal chalcogenides, or conducting polymers.
- Fundamental studies on the synergistic effects and charge storage mechanisms in hybrid materials.
- Advanced structural and electrochemical characterization (e.g., in-situ studies).
- Theoretical modeling and simulations of composite interfaces and performance.
- Design of flexible, solid-state, or asymmetric supercapacitor devices.
- Strategies to enhance cycling stability, energy density, and rate capability.
- Scalable fabrication techniques for commercial application.

We welcome original research articles and comprehensive reviews that contribute to the advancement of this dynamic field.

Guest Editor

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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