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Nanocomposites for Oxygen Reduction Reaction and Supercapacitor Applications

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Message from the Guest Editor

The development of sustainable and efficient energy system based on nanomaterials and nanocomposites is one of the most crucial challenges to meet renewable energy demand and climate change response. This special issue covers the significance of advanced nanomaterials and nanocomposites for sustainable energy conversion and storage technologies related with oxygen reduction reaction and supercapacitor, including, but not limited to:

- energy storage and conversion
- nanomaterials synthesis and characterizations
- nanocomposites fabrication for energy devices
- photochemistry and electrochemisty
- water splitting
- oxygen reduction reaction and oxygen evolution reaction
- supercapacitor and battery
- hydrogen production and fuel cell technologies
- CO₂ capture and reduction for further utilization
- carbon and nanohybrid materials for renewable energy and sustainability
- nanocatalyst and catalysis for climate changeresponse technology



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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, applications of new materials with lower nanometer-scale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metalorganic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, Nanomaterials, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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