

Special Issue

Nanostructured Materials for Electric Applications, 2nd Edition

Message from the Guest Editors

The rapid advancement of electronic technologies has significantly accelerated the development of advanced functional materials. The Special Issue “Nanostructured Materials for Electric Applications, 2nd Edition” aims to provide a comprehensive platform for researchers to share their latest findings in various domains, including solar cells, metal-ion batteries, triboelectric nanogenerators, electrocatalysts, electronic devices, optoelectronic devices, integrated circuits, etc. Contributions are invited in the form of original research, reviews and short communications that address, but are not limited to, the following topics:

- Design, synthesis and characterization of nanostructured materials for solar cells;
- Novel electrode and electrolyte materials for metal-ion batteries, including advanced characterization and theoretical studies;
- Electrocatalysts for fuel cells and hydrogen production;
- Triboelectric nanogenerators for energy harvesting;
- Nanostructured electronic and optoelectronic materials, including ceramics with enhanced dielectric/piezoelectric response and magnetic materials with tailored anisotropy;

Guest Editors

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About the Journal

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, and 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, metal–organic 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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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