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Nanostructured Electrocatalysts

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Message from the Guest Editors

Dear Colleagues,

Due to adjustable morphology and surface group, nanostructured catalysts are of great significance in the electrochemical field. Designing nanostructured electrocatalysts requires two strategies: bottom-up synthesis process or top-down modified technology. Accordingly, nanostructured carbons, metals, oxides, hydroxides, sulfides, and phosphides have been prepared and used as catalysts in electrocatalysis.

This Special Issue focuses on the progress of elaborate nanostructured electrocatalysts with a high active site density. Potential topics of interest include:

- Nanocarbon-based catalysts by structural controlling;
- Nanometals, -oxides, or -composites based on synthesis technology;
- Nanofilms derived from autocatalytic growth;
- Active site research based on nanostructured electrocatalysts;
- Advanced morphology controlling technologies for nanostructured electrocatalysts;
- Characterization technologies for active sites;
- In situ technologies or metal-support interaction research based on nanostructured electrocatalysts.

See more information in: <https://www.mdpi.com/si/171749>

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Guest Editors

Special Issue



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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, 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.

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