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Nanoparticles for Electrocatalysts

Guest Editor:

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Deadline for manuscript submissions:
closed (31 July 2021)

Message from the Guest Editor

Dear Colleagues,

This Special Issue is focussed on the contribution of nanoparticle systems to electrocatalytic processes. Electrocatalysts speed up or alter the selectivity of oxidation or reduction reactions. There are many important applications, especially in the field of carbon-free energy technologies, such a hydrogen production, including both the hydrogen evolution reaction and the oxygen evolution reaction. It also includes fuel cells where nanoparticle electrocatalysts are important at the reaction interfaces. Electrocatalysts are also useful for emerging organic synthesis reactions and pollution mitigation processes and in the recent field of electrochemical CO_2 capture. In all these areas, nanoparticle electrocatalyst systems can make an important contribution to the field.

It is our pleasure to invite you to submit a manuscript to this Special Issue. Full papers, short communications, and reviews are welcome.

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Editor-in-Chief

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

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