Special Issue

Applications of Nanocrystals in Energy and Catalysis

Message from the Guest Editor

Special Issue on "Applications of Nanocrystals in Energy and Catalysis" Nanocrystals, with their unique size-dependent properties, have emerged as a promising frontier in energy and catalysis. This Special Issue aims to gather innovative research and comprehensive reviews on the diverse applications of nanocrystals. From enhancing solar cell efficiency to boosting catalytic reactions, nanocrystals are revolutionizing energy conversion and chemical processes. We invite researchers to submit their latest findings, exploring innovative synthesis methods, novel mechanisms, and practical implementations of nanocrystals in energy storage, photocatalysis, electrocatalysis, and more. Join us in exploring nanocrystals' vast potential to address global energy and environmental challenges.

Guest Editor

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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.

Editor-in-Chief

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