Special Issue

ZnO Based Nanostructures: Synthesis, Characterization and Applications

Message from the Guest Editor

The 'ZnO Based Nanostructures: Synthesis, Characterization and Applications' is an important and actual subject, that includes a variety of a number specialized research interests from nanomaterials, physical chemistry and functional surfaces. This special issue intends to collect the recent achievements in experimental and theoretical studies on ZnO. Papers, focused on new methods of synthesis of ZnO and ZnO-based composite materials, forming of ZnO functional surfaces, applications of ZnO nanomaterials in sensors, biosensors, photocatalysis, electrochemical applications, biomedical applications and theoretical calculations of zinc oxide surface properties are welcome. Safety of ZnO nanostructures also can be a point of interest. The Special Issue is issued to the main natural science fields. The Special Issue will encourage interdisciplinary studies on intersection of physics, chemistry, microbiology and medicine.

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2020)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/30612

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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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