Special Issue

Structure and Properties of Functional Nanomaterials

Message from the Guest Editor

Functional nanomaterials, as a field, encompass a wide range of nanomaterial classes designed to perform specific functions. For this Special Issue of *Nanomaterials* dedicated to "Structure and Properties of Functional Nanomaterials" we invite contributions from the broad community of scientists developing functional nanomaterials and systems based on nanoparticles and quantum dots, nanowires and nanotubes, carbon nanostructures, graphene and other 2D materials (layers and nanosheets), macromolecules and self-assembled organic nanomaterials, and bio-nanomaterials and their supramolecular assemblies, as well as hybrid combinations and interfaces (including inorganic-organic or inorganic-bio) of the above. Examples of domain applications cover but are not limited to nano-sensing, energy harvesting, conversion and storage, nanoelectronics and bio-molecular electronics, nanomagnetism and spintronics, quantum technologies, nanophotonics and plasmonics, nano-biotechnology, catalysis, or nanomedicine.

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2021)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/55463

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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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