



Advances in Nanomaterials 2023

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Deadline for manuscript
submissions:

closed (28 December 2023)

Message from the Guest Editors

This Special Issue includes regular papers published in *Nanomaterials* in 2023, and selected papers from the 4th International Online Conference on Nanomaterials, held on 5–19 May 2023 on [sciforum.net](https://iocn2023.sciforum.net/) (<https://iocn2023.sciforum.net/>). The scope of this Special Issue is to cover the whole breadth of nanomaterials research and provide a forum for presenting and discussing new results. Contributors are requested to submit papers and presentations from the field of nanomaterials, such as nanomaterials and nanostructures, 2D materials and graphene, nanoparticles and quantum dots, nanowires and nanotubes, nanobiology and nanomedicine, nanophotonics and plasmonics, nanoelectronics and nanodevices, nanoenergy and nanocatalysis, nanofabrication, and nanomanipulation.





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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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