



Optical Properties of Semiconductor Nanomaterials

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Deadline for manuscript
submissions:
closed (20 July 2023)

Message from the Guest Editors

Semiconductor nanomaterials are promising for next-generation applications in many fields, such as energy harvesting, electronic and optoelectronic devices, chemical and biosensors, and catalysts at the nanoscale. A major feature of semiconductor nanomaterials is that their unique optical properties significantly differ from the same bulk material due to the quantum size effect or large surface-to-volume ratio. The optical properties of semiconductor nanomaterials are not only related to their atomic structure and electronic properties but also strongly correlated with the shape, size, and surface functionality of nanomaterials, which are attractive objects of fundamental research and new potential applications.

We are pleased to invite you to submit a manuscript to the "Special Issue on Optical Properties of Semiconductor Nanomaterials" of *Nanomaterials*. This Special Issue aims to collect the latest experimental and theoretical research articles on the optical properties of semiconductor nanomaterials and their applications. The scope of this Special Issue covers the preparation, characterization and application of semiconductor nanomaterials.





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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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