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Nanomaterials Based on IV-Group Semiconductors and Metals

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Deadline for manuscript submissions:
closed (30 September 2021)

Message from the Guest Editors

Dear Colleagues,

The new composites and nanostructures of group IV materials and metals provide a platform for advanced devices for nanoelectronics, photonics, and sensors. This Special Issue will focus on aspects of nanotechnology associated with different types of nanomaterials. Different issues relevant to low-dimensional structures, such as nanowires, nanocrystals, and nanopores, are potential topics. This issue includes fabrication such as lithography, material processing, physical approaches, chemical etching, nanoparticle formation, and different routes for nanofabrication. Photonic devices as detectors, light-emitting sources, waveguides, and optical modulators are included.

This Special Issue of *Nanomaterials* will attempt to cover the most recent advances in group IV and metal nanostructures from synthesis and characterization to photonics, nanoelectronics, and sensor applications.

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Editor-in-Chief

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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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