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Photonic Nanomaterials

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Message from the Guest Editors

Dear Colleagues,

One of the main topics in modern materials science and physics is the search for high-performing nanomaterials with specific properties for advanced photonic technologies, like sensing, lasing, imaging, data storage and processing, or medical and biological applications. The present Special Issue of *Nanomaterials* aims to present and provide a balanced view of the current state-of-the-art and recent advances in the field of nanoparticles, metasurfaces and metamaterials, including optical properties of nanomaterials, nanofabrication and advanced imaging techniques, laser and light sources technologies, and computational modeling of nanomaterials. Both experimental and theoretical contributions are welcome, including full papers, communications, and reviews to obtain a complete snapshot of the ongoing research activity in the field of photonic nanomaterials.



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Special Issue



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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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