

Special Issue

Theoretical Study of Organic and Hybrid Nanomaterials in Optoelectronic Systems

Message from the Guest Editor

This Special Issue of *Nanomaterials* is devoted to uniting theoretical foundations with experimental progress in the rapidly advancing domain of organic electronic materials for photovoltaic and optoelectronic applications. It serves as a forum for the dissemination of state-of-the-art theoretical and computational studies that enable the rational design, performance enhancement and innovation of organic and hybrid nanomaterial-based devices. Through the integration of advanced modeling techniques with organic and hybrid materials science, this issue aims to elucidate fundamental mechanisms, tackle long-standing scientific challenges and stimulate transformative developments in the field of organic optoelectronic and photovoltaic nanotechnologies. In this Special Issue, original research articles and reviews are welcome.

Guest Editor

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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