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Organic and Perovskite Micro/Nano Crystals and Optoelectronic Devices

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Message from the Guest Editors

Dear Colleagues,

Emerging organic and perovskite micro/nano crystals with few defects and an intrinsic lack of grain boundaries possess higher charge transport efficiency, longer exciton diffusion lengths, and higher photoluminescence quantum yields, which have received increasing interest for various electronic/optoelectronic device applications. Furthermore, low-dimensional micro/nanostructures confer organic and perovskite micro/nano crystals more superior mechanical properties making them an attractive material system for flexible and wearable electronics.

This Special Issue is aimed at presenting research that outlines the progress in new material designs, efficient fabrication methods, high-performance optoelectronic devices, and integrated device applications of organic and perovskite micro/nano crystals. We invite authors from leading groups in the field to contribute original research articles and review articles that cover the current progress in organic and perovskite micro/nano crystals. See more information at https://www.mdpi.com/si/160104

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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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