Special Issue

Application of Nano Polymers in Opto-Electronic Devices

Message from the Guest Editors

In order to unlock the full potential of high stability opto-electronic devices, there is an urgent need for organic semiconductor materials. Combining advances in nanotechnology and organic electronics, nanomaterials are potentially intelligent and versatile, and their self-assembly and other functional groups can be be integrated into nanopolymers. This can even be extended to porous nanostructures. In this way, special nanoscale effects are obtained, and corresponding photoelectric properties of aggregated states are controlled. This is of great significance in creating a molecular design platform for a new generation of polymer semiconductors, developing the covalent nanotechnology of polymers, realizing the goal of inorganic photoelectric properties of organic polymers, and solving many problems in flexible electronic devices. The present Special Issue of Nanomaterials aims to present the latest research on nanopolymers in opto-electronic devices. For more details, please see the following link: https://www.mdpi.com/si/188872

Guest Editors

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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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