Special Issue

New Opto-Electronic Nanocomposites: Synthesis and Applications

Message from the Guest Editor

In the past decade, nano-technology has received extensive attention by researchers in wide range of area from energy and environments to biological and medical sciences, and considerable progress has been made. Particularly it has encompassed many cutting-edge research areas of nano-photonics and nano-optoelectronics with development of opto-electronic nanocomposites. This special issue covers wide range of following topics, but not limited to 1) fabrications of opto-electronic nanocomposites; 2) their energy and environmental applications to develop solar cells and photocatalysts; 3) their biomedical applications to development of diagnosis and phototherapeutic techniques of cancer; 4) imaging and detection of single living cells and bio-molecules; 5) nano-transportation system of medicine. Many researchers in these interdisciplinary research fields are invited to contribute original full articles, communications or comprehensive review articles of latest works.

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.

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