Special Issue

Synthesis and Application of Optical Nanomaterials

Message from the Guest Editor

Optical materials have been widely studied in various fields due to their excellent properties. Thus, a lot of optical materials of various shapes and compositions have been synthesized and applied to many fields. This Special Issue aims to provide a variety of original contributions detailing the synthesis and application of optical materials. Our Special Issue will include the synthesis and application of optical materials that exhibit a variety of unique properties, including plasmonic materials, quantum dots, carbon materials and upconversion nanomaterials. It might also include applications based on optical phenomena occurring at the nanometer scale, such as surface-enhanced Raman spectroscopy (SERS), metal-enhanced fluorescence (MEF), plasmon resonance energy transfer (PRET), direct energy transfer (DET), Förster resonance energy transfer (FRET), fluorescence quenching and phototherapy (e.g., photothermal therapy and photodynamic therapy) and so on. See more information at https://www.mdpi.com/si/142592

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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