Special Issue

Synthesis and Application of Optical Materials

Message from the Guest Editor

As optical materials have shown outstanding characteristics in the bio, medical, electronics, energy and related industries, the potential benefits of using these materials have been widely recognized. Thus, research on many applications has been conducted using many optical materials of various shapes and compositions. This Special Issue aims to provide a range of original contributions detailing the synthesis and application of optical materials. Our Special Issue will include optical materials that exhibit a variety of unique characteristics, including plasmonic nanomaterials, quantum dots, carbon materials (e.g., carbon dot and graphene oxide) and upconversion nanomaterials. It will also include the applications that use optical properties, 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 photo therapy (e.g., photothermal therapy and photodynamic therapy). See more information in https://www.mdpi.com/si/63852

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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