Special Issue

Multifunctional Optical Nanomaterials

Message from the Guest Editor

This Special Issue is devoted to spreading the outstanding advances in the field of multifunctional optical materials. Optical or photonic materials have a real impact on our daily life, and it is projected that new advances in the field will be produced by the addition of new functionalities in the base material or by its integration in more complex architectures. We expect that these new features will arise not only from the rational synthetic design of the multifunctional materials to control the microstructure but also from the compatibility of the processes involved in their integration. In this Special Issue, we aim to explore new possibilities in the synthesis or the self-assembly of low dimensional materials (0D, 1D and 2D) (q-dots, nanowires, nanotubes, thin films, mesoporous materials, nanocomposites) that provide improvements in optoelectronics, optical bio-sensing or detection, and light driven energy conversion processes. These improvements could be a consequence between the interplay of the physico-chemical properties of the materials directed by its microstructure and the light management control based on different optical phenomena.

Guest Editor

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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