Special Issue

Optical Characterization of Novel Photonic Nanocomposite and Optically Active Nanomaterials

Message from the Guest Editors

In the last decade, there has been a growing interest in the range of novel optical nanomaterials based on semiconductor nanocrystals of different shapes (quantum dots, wires, platelets) and metal nanostructures, which demonstrate unique properties. The unique optical properties of these materials allow them to be used in a wide range of photonic and plasmonic applications, including advanced light sources, photonic circuitry with novel architectures, photovoltaics, sensing, and bioimaging. The technology of synthesis and fabrication of these new composite materials requires knowledge and understanding of the relationship between the chemical structure and interactions in these systems, as well as knowledge of their optical characteristics suitable for specific applications. This Special Issue will be devoted to optical characterizations of new nanocomposites and optically active materials, including the use of UV-VIS, CD, infrared, and Raman spectroscopic techniques. Original research papers and review articles related to the above-mentioned areas are cordially invited.

Guest Editors

Prof. Dr. Tatiana Perova
Prof. Dr. Yurii K. Gun'ko
Prof. Dr. Alexander Baranov

Deadline for manuscript submissions

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Message from the Editorial Board

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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