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Optical Characterization of Novel Photonic Nanocomposite and Optically Active Nanomaterials

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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.

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Message from the Editor-in-Chief

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