Special Issue

Nanostructured Ceramic and Glass

Message from the Guest Editor

Nanophotonics is now a rapidly growing interdisciplinary field of science, mainly due to the unique properties of optical waveguide nanostructures, obtained as a result of their interaction with photons. The most advanced systems are found in the currently used waveguide nanostructures, characterized by sophisticated optical properties and excellent thermal stability parameters required in modern nanomaterials. Therefore, the construction of such materials requires an interdisciplinary approach to combine fields of materials engineering and photonics. One of the current directions of research in modern photonics is functional nanomaterials with luminescent and structural properties enabling the construction of new structures to be applied in integrated systems, precise sensors, optical memories, and medical applications. This Special Issue of *Nanomaterials* focuses on fundamental nanostructured materials, nanocomposites glass and ceramics, and their luminescent and structural properties for photonic applications.

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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