Special Issue

Nanomaterials for Nanophotonics, Nonlinear Optical and Energy Applications

Message from the Guest Editor

This issue covers a large spectrum of recently emerging developments and future perspectives of advanced nanomaterials processing for photonics and/or energy applications. The objective of this Special Issue of *Nanomaterials* is to highlight advances in new findings on nanomaterials for nanophotonics, nonlinear optical and energy applications and also to underline their impact on emerging nanotechnologies; diagnostics of photonic and/or energy nanomaterials properties remains an important challenge for future perspectives and will also be discussed. Contributions based on nanoprocessing of specific molecular systems for photonics and energy, including state-of-the-art and emerging photonic nanomaterials for diverse promising optoelectronics applications are welcome to this Special Issue. This issue present a unique opportunity for discussions on recent emerging trends and future prospects of the hot topics of nanophotonics, nonlinear spectroscopy, optical limiting properties, and/or energy by assembling papers addressing both the fundamental and advancement innovations in nanomaterials and asset integrity analysis for applied photonics and energy.

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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