

Special Issue

Dynamics and Applications of Photon-Nanostructured Systems

Message from the Guest Editor

Nanotechnologies are tracking different stages of novel technological applications by integrating molecular functionalities with the macro-world. Not to mention the scientific research on metamaterials and nanorobotic systems, photons, besides their use in almost all aspects of modern life, carry an immense amount of quantum information, which, when combined with nanoscience and nanotechnological tools, allows one to visualise novel technological applications such as quantum computing. Therefore, not only the submission of research articles with proof-of-concept demonstrations is encouraged for this Special Issue, but also the submission of articles including upcoming and future ideas with a strong interdisciplinary fundamental, theoretical, and applied character, over a wide range of thematic areas in physics, chemistry engineering, and biology, is welcome. Among other classical subjects of photonic nanotechnology, we invite articles on photon surface processing and interphases, nano non-equilibrium thermodynamic, chaos and non-linear behavior at the nanoscale, quantum and nano-effects in biological systems and nanorotors.

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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