



Nanomaterials for Nonlinear Optics

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Deadline for manuscript
submissions:

closed (20 September 2021)

Message from the Guest Editor

The present Special Issue intends to present the current state of the art in the field, focusing on the nanomaterial nonlinear optical properties, as well as their use in applications involving a nonlinear optical process. Second-order processes such as second harmonic generation as well as third-order processes like two photon excited fluorescence are the most described ones, but sum frequency generation or Kerr effects also present potential alternatives.

I firmly believe that your contribution to this Special Issue on this topic will help the community to achieve a complete and useful overview of the most recent advances in the field.





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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.

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