Special Issue

Recent Advances on Nanophotonics and Plasmonics

Message from the Guest Editor

In recent years, tremendous growth and progress has taken place in the fields of nanophotonics and plasmonics. This has resulted in a deeper understanding of light–matter interactions, the discovery of new materials and designs, and the creation of advanced technologies with a wide range of applications. The focus of this Special Issue on *Nanomaterials* is to highlight the following fields: Latest developments in metasurface design and fabrication and their applications in areas such as lasing, sensing, and data storage. The exploration of the plasmonic properties of 2D materials through techniques such as lithography, doping, the search for new materials, and moiré stacking. The novel design or improvement of plasmonic sensors and their applications in areas such as biology, medicine, and environmental monitoring. The investigation of new optical properties of 2D materials and the development of advanced photonic devices. The use of artificial intelligence in nanophotonics and plasmonics. The integration of nanophotonic and plasmonic components in hybrid nanophotonic systems. We warmly welcome original article and review submissions.

Guest Editor

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Deadline for manuscript submissions

closed (10 November 2023)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/163841

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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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