



Recent Advances in Nanophotonics Based on Thin Films and Nanostructures

Guest Editor:

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Message from the Guest Editor

In recent decades, the integration between photonics, electronics and mechanics has played an increasingly significant role in modern industries. Notably, optoelectronic devices with features including a small size and high degree of integration constitute a crucial aspect in the development of information technology, and the recent advances in nanophotonics has provided remarkable new knowledge in terms of fundamental research. These nanophotonic devices are mostly made from thin films and nanostructures of solid states or other kinds.

The present Special Issue is aimed at presenting the current state of the art in the area of nanophotonics and nano-optics physically based on thin films and nanostructures. We welcome submissions of manuscripts on topics that include, but are not limited to, the growth, fabrication and characterization of optical thin films; micro- and nanoscale optical materials; micro/nano-optoelectronic devices; microcavities; nanolasers; metamaterials and metasurfaces; plasmonics and polaritonics; and light–matter interaction in solid-state and atomic micro/nanostructures. We are expecting original research articles as well as review articles.





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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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