



Hybrid Plasmonic Nanostructures and Their Applications

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Message from the Guest Editor

Dear Colleagues,

This Special Issue is focused on the design, fabrication, and application of hybrid-plasmonic nanostructures. Controlled and reliable field enhancement effects related to the excitation of plasmons in resonant metal nanostructures constitute an essential prerequisite for the development of various sensing configurations. Although many plasmonic structures have been designed, there are challenges associated with reproducibility and sensitivity. One of the directions to improve the characteristics of the nanostructures is the development of so-called hybrid structures incorporating several types of materials (for instance: metal-dielectric, 2D materials, etc.) This will advance fundamental research and expand biomedical applications.

Dr. Sergey M. Novikov
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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