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State-of-the-Art Optical Properties and Applications of Metallic Nanostructures in Asia

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Message from the Guest Editor

Dear Colleagues,

With the progress of nanofabrication technology, optical properties and applications of metallic nanostructures have attracted more research interest in recent years. Top down or bottom up nanotechnologies have been employed to fabricate metallic nanostructures with specific optical properties. Optical excitation of surface plasmons existing in these metallic nanostructures has given rise to brand new phenomena such as Surface Enhanced Raman Scattering (SERS), metal-enhanced fluorescence (MEF), Fano resonance, plasmonic photocatalysis and metamaterials. Fundamental research and practical applications of the above optical phenomena have been widely spread in the research fields of physics, chemistry, biology and engineering. Therefore, the main focus of this Special Issue is to cover the recent advances in newly developed state-of-the-art metallic nanostructures with special optical properties and applications mentioned above in nanophotonics, nanobiophotonics, biophysics, and nanoengineering.

Prof. Hai-Pang Chiang
Guest Editor



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Special Issue



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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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