Special Issue

Metallic Nanostructures

Message from the Guest Editor

With recent advances in nanotechnology, fabrication and characterization of metallic nanostructures have attracted a great deal of attention. By structuring metallic surfaces at the sub-micron scale, light is coupled to surface plasmons and can be confined to a deep sub-wavelength volume. As a result, both linear and nonlinear optical responses are highly enhanced, enabling high-resolution detection. The ability to design state-of-the-art metallic nanostructures gives rise to fundamental optical phenomena at the nano-scale and to development of a wide range of optical devices for (bio)-imaging and sensing. This Special Issue on "Metallic Nanostructures" attempts to cover recent advances in the fabrication of metallic nanostructures and characterization techniques, especially techniques related to electronic microscopies. Their applications in color generations, imaging, and sensing will be covered as well.

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.

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