Special Issue

Plasmon Assisted Near-Field Manipulation and Photocatalysis

Message from the Guest Editor

This Special Issue aims to promote clear understanding of plasmonic catalysis on both molecules and materials and contribute to the design of highly tunable catalytic systems to achieve efficient solar-to-chemical energy conversion. Novel results on plasmonic electromagnetic field, hot electrons, or photothermal catalyzed chemical reactions and mechanism discussion on plasmon excitation and energy transfer will be welcome, as well as critical review articles challenging the present knowledge and offering an expert platform to discussion.

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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