

Special Issue

Plasmonics and its Applications

Message from the Guest Editor

Nanoplasmonics is a young topic of research, and this concerns the investigation of electron oscillations, called surface plasmons, in metallic or hybrid (metallic/dielectric) nanostructures and nanoparticles. Surface plasmons have the unique capacity to confine light at the nanoscale. Moreover, these plasmonic modes are very sensitive to the surrounding medium and the materials on which they propagate. In addition to the above, the surface plasmon resonances can be controlled by adjusting the size, shape, periodicity, and materials' nature. All these optical properties can enable a great number of applications, such as biosensors, optical modulators, photocatalysis, integrated photonics and photovoltaic devices. Thus, this Special Issue is dedicated to introduce recent advances in nanoplasmonics and its applications for a wide range of topics. Therefore, it is with my great pleasure that I invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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