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Plasmonics and its Applications

Guest Editor:

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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.

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Message from the Editor-in-Chief

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