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Laser Interaction with Plasmonic Nanostructures

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Message from the Guest Editors

Dear Colleagues,

Plasmonics is the branch of science that deals with the interaction between the electromagnetic field and the free electrons in a metal, as well as their potential applications. In nanostructured metals this interaction produces the localized surface plasmon resonances (LSPR), which can be defined as the collective oscillation of conduction electrons in resonance with the incoming light. The LSPR can be tuned by changing parameters, such as the size, shape, and composition of the nanoparticles, but also the nature of the excitation source. We focus this Special Issue on the effects of this interaction that open new perspectives for designing novel devices and applications in a wide variety of fields. All the topics related to the interaction of lasers with plasmonic nanostructures, including, but not restricted to, the previous examples, are invited to this Special Issue.

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Dr. Ovidio Peña-Rodríguez
Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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