Special Issue

Optical Properties of Functional Nanomaterials

Message from the Guest Editor

The interaction of light with matter comprises a wide range of phenomena, such as absorption, emission, diffraction, and reflection, which, if appropriately analyzed, provide a full spectrum of information about a material. Materials with at least one dimension below 100 nm, known as nanomaterials, behave significantly differently from bulk materials due to unique properties that cannot be observed in the related bulk materials but only at the nanoscale. Additionally, optical properties can be controlled by macroscopically assembling nano-objects. Exploring such properties allowed the advancement of many fields, including plasmonics, optoelectronics, photonics, sensing, nanomedicine, etc.This Special Issue welcomes both original research papers and review papers on both fundamental science and applications on nanomaterials related to the following topics:Plasmonics
Metamaterials
Magnetic materials
Nonlinear optical properties
Bio-nanomaterials
Theory and simulations
Optical sensing
Optoelectronics
Photonics
Nanomedicine

Guest Editor

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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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