Special Issue

The Newest Research in Novel Materials

Message from the Guest Editor

Over the past 20 years, techniques for producing nanostructures have matured, resulting in a wide range of ground-breaking solutions that can control light and heat on very small scales. Some of the areas of advancement that have contributed to these techniques are photonic crystals, nanolithography, plasmonic phenomena, and nanoparticle manipulation. From these advances, a new branch of novel material science has emerged—metamaterials. Metamaterials have, in the last few decades, inspired scientists and engineers to think about waves beyond traditional constraints imposed by materials in which they propagate, conceiving new functionalities. At the same time, metamaterials are recently embedding new quantum materials such as graphene, dielectric nanostructures and, as metasurfaces, surface geometries and surface waves, while also embracing new functionalities such as nonlinearity, quantum gain, and strong light–matter coupling.

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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