Special Issue

Harvesting Electromagnetic Fields with Nanomaterials

Message from the Guest Editors

This Special Issue includes selected papers from the 5th International Forum on Micro-Nano Technology and Composites, to be held on 25-27 October in Zhengzhou, China. Responding to the application from the Low-Dimensional Electromagnetic Functional Materials and Devices sub-forum, a Special Issue entitled "Harvesting Electromagnetic Fields with Nanomaterials: Selected Papers from the International Forum on Micro-Nano Technology and Composites" is planned. The topics of this Special Issue will contain the accepted papers presented during the forum, related to “nanotechnologies and nanomaterials”, and mainly include the following:

- First-principle calculation, design, development, and application of wave absorbing materials and electromagnetic shielding materials;
- Design, development, and application of metamaterial absorbers;
- First-principle calculation, photocatalysis, photoluminescence, and photoelectric properties of nanomaterials.

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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