

## Special Issue

# Enhanced Electromagnetic Wave Absorption: Nanomaterials and Nanotechnology

### Message from the Guest Editors

Owing to the rapid development of electronic technology, electromagnetic (EM) interference has emerged a significant and growing concern in today's environment. Therefore, high-performance EM wave-absorbing materials are urgently required for both civilian and military applications. To satisfy the increasing requirement, various advanced materials have been explored with the support from fields of nanotechnology, material chemistry, and polymer science, among others. Nanomaterials exhibit remarkable advantages in the field of electromagnetic wave absorption due to their unique physical and chemical properties, such as highly specific surface area, quantum size effects, and interfacial effects. Currently, carbon-based nanomaterials, magnetic nanomaterials, and conductive polymer nanomaterials are widely studied and applied in wave-absorbing materials. The present Special Issue of *Nanomaterials* aims to present the current state-of-the-art characterization of nanostructures, nanomaterial processing technology, and properties of novel nanomaterials for electromagnetic wave-absorbing materials, electronic functional components, and magnetic functional materials.

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### Deadline for manuscript submissions

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## Nanomaterials

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## About the Journal

### 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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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### Editor-in-Chief

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