



Nanomaterials for Terahertz Technology Applications

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Message from the Guest Editors

Over the past several decades, terahertz technology has achieved considerable progress with the development of nanoscience and nanotechnology. In particular, nanomaterials for terahertz technology applications are also attracting extensive attention in various areas, such as national defense, military, chemistry, medicine, pharmaceutical, communications, and many other fields. In order to utilize terahertz technology flexibly and efficiently, it is currently important and necessary to develop novel terahertz devices and systems via the versatility of nanomaterials and nanostructures.

This Special Issue of *Nanomaterials* aims to explore nanomaterials for terahertz technology applications. The format of welcomed articles includes full papers, communications, and reviews. Potential topics include, but are not limited to, nanomaterials and nanostructures for terahertz technology applications (terahertz devices; terahertz generation and propagation; terahertz imaging; terahertz sources, detectors and receivers; terahertz sensing and diagnostics; terahertz nanoelectronics; terahertz spectroscopy; terahertz metamaterials/metasurfaces; etc.).





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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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