Special Issue

Research Progress of Nanoscale of Shielding Materials

Message from the Guest Editor

Nanoscale shielding materials have garnered significant attention due to their superior properties, such as their lightweight structure, high mechanical strength, excellent thermal stability, and exceptional electromagnetic shielding efficiency. These materials are essential for applications in electronics, telecommunications, aerospace, and healthcare, where effective shielding against electromagnetic interference (EMI) and radiation is critical.

This Special Issue aims to provide a platform for the latest advancements and insights into the design, synthesis, characterization, and application of nanoscale shielding materials.

We invite original research articles, comprehensive reviews, and perspective pieces that contribute to the understanding and innovation of nanoscale shielding materials. This Special Issue aims to serve as a valuable resource for researchers and practitioners seeking cutting-edge solutions to shielding challenges in diverse technological fields.

Guest Editor

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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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