Special Issue

Advanced Thermoelectric Nanomaterials, Devices and Applications

Message from the Guest Editor

I am honored to serve as the for this Special Issue of *Nanomaterials*, entitled **"Advanced Thermoelectric Nanomaterials, Devices, and Applications"**. This Special Issue will highlight cutting-edge advancements in thermoelectric research—from innovative material synthesis and characterization to novel device architectures and real-world implementations. Thermoelectricity has seen renewed interest since the classical discovery of the Seebeck effect, especially with the rapid progress in nanostructuring techniques, AI-assisted material discovery, and system integration. We aim to provide a comprehensive platform for showcasing the most recent breakthroughs that can contribute to next-generation solutions for energy harvesting and thermal management. All submissions will undergo rigorous peer review to ensure the highest academic standards. We look forward to your contributions, which will help shape the future of thermoelectric research and applications.

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.

Editor-in-Chief

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