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Innovative Semiconducting Materials Technology toward New-Generation Hardware Applications

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Message from the Guest Editors

Dear Colleagues,

This Special Issue mainly focuses on two fields: (i) devices based on novel semiconductor materials and their depositing methods; (ii) the related techniques of tuning devices for specific applications like logic circuits, hardware neural network arrays, biosensors, etc. Its main purpose is to provide a platform for the presentation of research results and the exchange of ideas between researchers in both the academic and industrial fields. Taking advantage of this opportunity, we hope to promote the development of innovative semiconductor-related technologies and provide new ideas for research on next-generation electronic devices.

For further reading, please follow the link to the Special Issue website at: <https://www.mdpi.com/si/109620>.

Dr. Chun Zhao
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Guest Editors



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Special Issue



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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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