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Innovation in Nanoelectronic Semiconductor Devices and Materials

Guest Editors:

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Deadline for manuscript submissions:
closed (1 January 2024)

Message from the Guest Editors

Dear Colleagues,

From cell phone to mainframe computer, precision surgery to autonomous driving, semiconductors have been playing pivotal roles in our daily lives. The emergence of 3D devices and heterogeneous integration brings forth opportunities to fulfill critical specifications.

This Special Issue aims to provide a forum for the most up-to-date, high-caliber research efforts in nanoelectronic semiconductor devices and materials. Potential topics include, but are not limited to:

Novel FINFET and nanosheet device architectures and characterization.
Materials innovations in gate-all-around nanosheet devices.
SiGe and new strained layers for devices.
Gate materials and processing for nano devices.
Materials and processing issues for 3D NAND memories.
Electrode materials and characterization for PCM, MRAM, and other memory devices.
ALD and CVD materials for semiconductors.
Advanced BEOL interconnects and metallizations.
FCVD, SOG, and polymeric materials in advanced semiconductor devices.

See more information in:
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Dr. Victor Chan
Guest Editors

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Special Issue

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Editor-in-Chief

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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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