

Special Issue

Nanomaterials for the Advanced Manufacturing of Electronic Devices

Message from the Guest Editors

This Special Issue will be focused on the use of nanomaterials and nanostructured materials in the fabrication of electronic devices: how do nanomaterials or a nanostructured materials improve the performance of a device or enable its manufacturing. Examples of possible topics would be:

- Nanodevices based on nanocrystals and quantum dots
- Materials issues related to resistive switching devices
- Advanced materials in the fabrication of nanoelectronic devices, such as block copolymers
- Processing methods for controlling the dimensions of materials in nanodevice fabrication: ALD, ALE, etc.
- Nanolithography for structuring materials in nanodevice fabrication
- Low dimensional materials (like 2D materials) for nanodevice fabrication
- Bottom-up fabrication of nanoelectronic devices
- Modelling of nanometaterials in electronic devices

Guest Editors

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About the Journal

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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