



## Nanoscience and Nanotechnology for Electronics

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (31 October 2022)**

### Message from the Guest Editor

Dear Colleagues,

Nanoscience and nanotechnology are already crucial for electronics. However, taking full advantage of nanomaterials requires overcoming many challenges. Nanodevices are unavoidably more complex to fabricate, model, characterize, and assemble into functional systems.

This Special Issue of Nanomaterials will cover challenges and opportunities of Nanoscience and Nanotechnology for Electronics. The format of articles includes full papers, communications, and reviews. Potential topics include but are not limited to:

- Nanomaterials for electronics;
- Nanomaterials for bioelectronics;
- Nanomaterials for sensors, actuators, and transducers;
- Nanomaterials for flexible/wearable systems;
- Quasi-1D nanostructures (nanowires, carbon nanotubes, etc.) for electronics;
- 2D electronics (graphene, MoS<sub>2</sub>, 2D heterostructures, etc.);
- Nanogenerators (piezoelectric, triboelectric, etc.);
- Nanotransducers (piezoelectric, etc.);
- Modeling of nanomaterials for electronics;
- Synthesis of nanomaterials for electronics;
- Characterization of nanomaterials for electronics.





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## Editor-in-Chief

### **Prof. Dr. Shirley Chiang**

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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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