

## Special Issue

# Advanced Nanomaterials and Nanotechnologies for Micro/Nano-Sensors, 2nd Edition

### Message from the Guest Editor

In the building of Smart Cities, micro/nano-sensors are the essential component of the Internet of Things (IoT) and encounter high demand for their categories, performance, application scenarios, etc. Various sensors are needed for different application fields, such as environmental pollution monitoring, hazardous chemical spill warning, early disease diagnosis, and healthcare reminders. Advanced technologies, including crystal facet controlling, vacancies regulation, morphology design and controllable assembling of individual nanomaterials, and hetero-integration of multi-composition, multi-structure, and multi-function at the nanoscale, can create a new generation of integrated micro/nano-sensors with unique functions. The Special Issue seeks papers on chemical/biological sensors based on the electrical or optical properties of advanced novel nanomaterials. Authors are invited to submit articles focused on trace detection, selective enhancement, fast response, characterization and evaluation of sensing performance, the completion of sensing mechanistic discussions of experimental phenomena and other aspects.

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### Guest Editor

Prof. Dr. Dongzhi Zhang

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### Deadline for manuscript submissions

13 February 2026



## Nanomaterials

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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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### Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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