



an Open Access Journal by MDPI

Novel Nanomaterials and Nanotechnology in Gas Sensing Application

Guest Editors:

Prof. Dr. Ming Xu

College of Electronic Information
& Key Lab of Information
Materials of Sichuan Province,
Southwest Minzu University,
Chengdu, China

Dr. Yuanjie Su

School of Optoelectronic Science
and Engineering, University of
Electronic Science and
Technology of China, Chengdu
610054, China

Dr. Jun Chen

Department of Bioengineering,
University of California, Los
Angeles, CA 90095, USA

Deadline for manuscript
submissions:

closed (30 September 2023)

Message from the Guest Editors

Dear Colleagues,

With the rapid development of modern society, environmental toxic gases have become the bottleneck that hinders sustainable development. Therefore, highly-efficient detection of toxic gaseous pollutants in our ecological system and exhaled chemicals from respiration is critical to promote the circular economy and livelihood quality as well as carbon neutrality worldwide.

The Special Issue on “Novel Nanomaterials and Nanotechnology in Gas Sensing Application” aims at collecting recent advances on nanostructured gas sensing materials and their novel application in different fields of interest. Potential topics include (but are not limited to) the following five categories:

- Novel gas sensing nanomaterials
- Room-temperature gas sensors
- Energy motivated gas sensing technology.
- Respiratory analysis and exhalation detection.
- Flexible gas sensors based on novel nanomaterials and/or nanotechnologies

The submissions of research articles and review papers on the above sensitive materials and gas sensors are welcome.



mdpi.com/si/155953

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (General Chemical Engineering)

Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
[X@nano_mdpi](https://x.com/nano_mdpi)