







an Open Access Journal by MDPI

State-of-the Art in Gas Sensors based on Nanomaterials

Guest Editors:

Dr. Hyeong-U Kim

Department of Plasma Engineering, Korea Institute of Machinery and Materials (KIMM), Daejeon 34103, Republic of Korea

Prof. Dr. Jae-Hyun Lee

Department of Materials Science and Engineering and Energy Systems Research, Ajou University, 2016 World Cup-ro, Suwon 16499, Gyeonggi-do, Korea

Dr. Seoung-Ki Lee

School of Materials Science and Engineering, Pusan National University, Busan 46241, Korea

Deadline for manuscript submissions:

closed (31 December 2022)

Message from the Guest Editors

Gas sensors are the most important tools for monitoring unknown gas concentrations and environmental information to ensure production safety. Nanomaterials are attracting more attention for gas sensors, because of their excellent surface performance, such as nanomaterials. Their unique electrical, optical, mechanical properties have made them a new type of compact, ubiquitous, wearable sensors. Nanomaterialbased gas sensors have improved sensing performance such as sensitivity, accuracy, and stability for various gases. The development of electronic devices is rapidly advancing due to integration and miniaturation. In addition, the wearable technology is expected to become an integral part of our daily life. It has a high demand for real-time monitoring of exhaled breath and surrounding toxic gases to identify potential risks to health and food safety.

This Special Issue is devoted to providing the latest cuttingedge fundamental and applied research on all aspects of gas sensors. Full papers, communications, and reviews on experimental and theoretical studies of gas sensors are all welcome.













an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases. **Journal Rank:** JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us