Special Issue

Recent Development of Gas-Sensing Thin Film, Devices, and Technology

Message from the Guest Editors

With the rapid development of global industry and the incredible human population boom, environmental pollution has become an increasingly serious threat to the health and safety of human beings over the past few decades. The scope of this Special Issue is to provide a platform to researchers from both the academy and industry to share their developments in the fast-growing field of gas-sensing materials. Original research articles and reviews are welcome. Research areas may include the following:

- Semicondutor thin film deposition techniques and technology;
- Another popular synthesis techniques for a variety of nanomaterials;
- Novel fabrication for the devices;
- Modelling and simulation of emergent gas-sensing materials and devices;
- High-throughput calculation with AI for new designs of gas-sensing materials;
- Characterization of structures, chemical compositions, surface, and transport properties;
- Emergent and promising gas-sensing materials for low-temperature and high-sensitivity gas sensors;
- Organic and Orginc-inorginc hybrid gas sensors;
- Flexible and wearable gas sensors;
- Other gas-sensing materials for gas sensors in some special applications.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2023)

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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