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Current Trends in Coatings for Gas Sensors

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Message from the Guest Editors

The use of film-coated devices for monitoring gaseous pollutants in indoor and outdoor environments such as volatile organic compounds (VOCs) and carbon monoxide, ammonia, nitrogen dioxide, sulfur dioxide, carbon dioxide, methane, and hydrogen sulfide are widely deployed for this purpose. Efforts are being made to improve the performance of these air quality sensors. Current trends in gas sensing have recently received increased attention due to climate change. Global air quality is closely linked to the Earth's climate and ecosystems. This Special Issue considers strategies for simultaneously reducing these emissions and improving air quality monitoring in living and working environments. It is important to reduce the burden of disease-related health problems caused by these harmful and dangerous air pollutants.

In particular, the topics of interest include, but are not limited to:

- Sensors.
- Nano- and/or micro-scale multiphysics devices for gas detection and monitoring.
- Miniaturized novel chemical sensors.
- Biosensors and electronic nose.
- Flectrical transducers
- Gas sensing principle.







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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.

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