



Gas Sensing Film Coating

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Deadline for manuscript
submissions:

closed (20 September 2022)



mdpi.com/si/27655

Message from the Guest Editors

Dear Colleagues,

In recent years, the determination of gases has received considerable attention for monitoring environmental pollution, process control, and food industry.

The scope of this Special Issue will serve as a forum for papers in the following concepts:

- Electrospun nanofibers used to obtain a three-dimensional structured fibrous membrane with a controllable pore structure and high specific surface area coating with different kinds of gas sensors;
- Recent developments in nano-engineered materials, including one-dimensional nanostructures, such as nanoribbons coatings, for gas sensing;
- Understanding the influence of particle size, morphology, and doping of metal oxide nanostructure coatings in gas sensing properties;
- Development of new strategies using coverage with ionic liquids, which lead to the development of new applications in the field of gas sensing;
- Development of electronic nose systems based on multiple coverages, which facilitate a multi-detection system of gaseous compounds;
- The latest development of gas-sensing film coatings integrated in portable measuring devices and in multi-sensor platforms for the determination of gases.

Special Issue



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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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