



Gas Sensing Film Coating

Guest Editors:

**Prof. Dr. María Dolores
Fernández Ramos**

Facultad de Ciencias,
Department of Analytical
Chemistry, Universidad de
Granada, Granada, Spain

**Prof. Dr. Antonio Luis Medina-
Castillo**

Faculty of Sciences, University of
Granada, Colegio Máximo de
Cartuja s/n, 18071 Granada,
Spain

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



Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New
Ceramics and Fine Processing,
School of Materials Science &
Engineering, Tsinghua University,
Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam
Mickiewicz University in Poznań,
ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

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.

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), Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)

Contact Us

Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/coatings
coatings@mdpi.com
X@Coatings_MDPI