

Special Issue

Nanostructured Materials and Coatings for Electrochemical Sensor Applications

Message from the Guest Editor

The scope of this Special Issue encompasses nanostructured materials and coatings dedicated for electrochemical sensor applications, which includes systems where electrochemical readout allows the detection of selected molecules. In particular, the topics of interest include but are not limited to:

- Synthesis route of nanostructures exhibiting significantly improved sensitivity due to the developed surface area;
- Nanomaterials modified with, e.g., enzymes, DNA or peptides strains exhibiting highly selective response;
- Materials active toward important biological molecules, e.g., sugars, drugs, nucleic acids;
- Development of electrode materials stable upon mechanical stress, illumination, presence of interfering species;
- Sensing platforms consisting of hybrid organic–inorganic materials.

Guest Editor

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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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