

Special Issue

Advanced Nanomaterials and Coating Technologies for High-Performance Electronic, Optoelectronic, Energy, and Sensing Devices

Message from the Guest Editors

We are pleased to announce a Special Issue titled “Advanced Nanomaterials and Coating Technologies for High-Performance Electronic, Optoelectronic, Energy, and Sensing Devices”. This Special Issue highlights recent advances in oxide semiconductor nanomaterials, essential for developing next-generation electronic, optoelectronic, energy, and sensing technologies. We invite researchers to submit original research, reviews, and case studies on topics such as the synthesis, functionalization, and applications of oxide semiconductor nanomaterials. This Special Issue aims to foster insights into oxide semiconductor structures, interfaces, and functional properties. Topics of interest include the following:

- Theoretical and experimental studies on growth mechanisms and synthesis methods;
- Functional properties and their dependency on synthesis parameters;
- Methods to enhance electrical, magnetic, and optical properties;
- Advanced characterization techniques and applications in sensing and energy storage.

Guest Editors

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Deadline for manuscript submissions

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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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