

Special Issue

Low-Dimensional Semiconductor Materials: Preparation, Properties, and Applications

Message from the Guest Editor

Recent theoretical and experimental developments in low-dimensional semiconductors have become a new trend in the field of materials science. In particular, the scientific community is interested in the development of new materials. The scope of this Special Issue will serve as a forum for papers covering the following concepts:

- Synthesis, characterization, and new findings in properties and applications in the development of low-dimensional semiconductors—especially, transparent conducting oxides (TCOs), graphene, and graphitic carbon nitride materials.
- Low-dimensional semiconductors produced by different processes, including—but not limited to—additive manufacturing processes, i.e., physical vapor deposition (PVD) or chemical vapor deposition (CVD).
- The latest developments in test methods considering the interplay between mechanical, chemical, and electrochemical interactions and the ability to predict performance and/or reliability.
- Computer modeling; simulation to predict the properties of thin-film materials; and performance, durability, and reliability in service environments.

Guest Editor

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Deadline for manuscript submissions

closed (20 October 2023)



Coatings

an Open Access Journal
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Impact Factor 2.8
CiteScore 5.4



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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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