

Special Issue

Recent Studies of Metal and Metal Compound Coatings: Microstructure, Properties, and Applications

Message from the Guest Editors

As human civilization continues to develop, our constantly growing demand for energy has called for extensive studies to find novel, effective, and environmentally friendly materials. Metals and metal compounds, such as nanoparticles, composites, and coatings, are attracting wide scientific interest due to the unique properties associated with their multifunctionality in various applications, such as in (photo)catalysis, photovoltaics, energy conversion, storage, and corrosion-resistance devices, various sensors, mixed-oxide varistors, etc., serving large-scale industry needs. We encourage you to submit manuscripts containing scientific findings related, but not limited to, the following topics of interest:

- Photo(catalytic) coatings;
- Composite materials for water splitting;
- Composite materials for energy storage or conversion;
- The fabrication and characterization of nanoparticle-based coatings;
- Corrosion protection;
- Corrosion resistance;
- Sustainable coatings.
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Guest Editors

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Deadline for manuscript submissions

closed (15 November 2025)



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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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