

Special Issue

Advanced Coating Technologies for Alloy Surfaces

Message from the Guest Editors

Topics of interest include, but are not limited to, the following:

- Physical vapor deposition (PVD), chemical vapor deposition (CVD), and atomic layer deposition (ALD) coatings;
- Thermal spraying, laser cladding, and additive surface manufacturing technologies;
- Nanostructured, gradient, and multilayer coatings;
- Corrosion-resistant, wear-resistant, and oxidation-resistant coatings;
- Functional coatings (self-healing, anti-fouling, anti-icing, hydrophobic, bioactive, or energy-related coatings);
- Coating–substrate interfacial design and adhesion mechanisms;
- Surface modification of aluminum, magnesium, titanium, steel, and high-entropy alloys;
- Environmentally friendly and sustainable coating processes;
- Modeling, simulation, and in situ characterization of coating behavior;
- Long-term durability, degradation mechanisms, and lifecycle assessment.

We welcome both original research articles and comprehensive review papers that contribute to advancing the scientific understanding and industrial application of coating technologies for alloy surfaces.

Guest Editors

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Deadline for manuscript submissions

5 January 2027



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/277780

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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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