

# Special Issue

## Surface Engineering of Additively Manufactured Alloys

### Message from the Guest Editors

This Special Issue welcomes original research papers and review articles on the following topics: 1. Surface modification technology: Post-treatment technology for AM alloys, including:

- Mechanical processing: Shot blasting, abrasive flow machining, vibration polishing.
- Thermal (electrochemical) treatment: Laser polishing, laser shock peening, electrochemical polishing, etc.
- Deposition techniques: Physical Vapor Deposition (PVD), Chemical Vapor Deposition (CVD), Thermal Spray, Cold Spray, Electroplating.
- Hybrid and emerging surface engineering technologies.

2. Characterization and performance: Characterization and performance evaluation of surface-modified AM alloys, including:

- Surface morphology, roughness, residual stress, and microstructure evolution.
- Mechanical properties: Fatigue strength, hardness, and wear resistance.
- Chemical properties: Corrosion resistance and high-temperature oxidation behavior.
- Functional performance: Wettability, biocompatibility, catalytic activity, and optical properties.
- Simulation and modeling: Computational models, simulations, and artificial intelligence methods used to predict and optimize surface treatment processes and performance of AM components.

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### Guest Editors

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### Deadline for manuscript submissions

10 September 2026



## Coatings

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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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### Editors-in-Chief

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