

# Special Issue

## Deposition Technologies for Functional Coatings

### Message from the Guest Editors

This Special Issue aims to present and disseminate the most recent advances in **deposition technologies for functional coatings**, with emphasis on both fundamental understanding and technological development. Topics of interest include, but are not limited to, the following:

- Advanced deposition technologies for functional coatings
- Thermal spray and cold spray coating technologies
- Physical and chemical vapor deposition processes
- Laser-based and electrochemical coating techniques
- Functional ceramic, metallic, polymer, and composite coatings
- Composite and nanocomposite coating architectures
- Interface engineering and bonding mechanisms in coatings
- Microstructure evolution during coating deposition
- Coating performance in extreme environments (wear, corrosion, erosion, radiation shielding, high temperature)
- Advanced characterization and modeling of coating systems
- Coatings for aerospace and space applications
- Data-driven and AI-assisted approaches for coating design, process optimization, and performance prediction

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### Guest Editors

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### Deadline for manuscript submissions

10 December 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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