

Special Issue

Surface Engineering and Materials for Corrosion Protection

Message from the Guest Editors

Corrosion remains a critical challenge across industries, leading to economic losses, structural degradation, and environmental concerns. Research continues to focus on developing efficient, sustainable, and eco-friendly technologies and methods. Recent studies on novel coatings, nanostructured systems, ecological inhibitors, and smart or self-repairing surfaces have opened new opportunities for durable and sustainable protection.

This Special Issue aims to gather high-quality contributions highlighting recent progress in designing, manufacturing, and characterizing advanced materials and treatments for corrosion control. This Special Issue aims to attract relevant articles related to all areas of coatings studies. Potential topics include the following:

- Metallic, ceramic, polymeric, and hybrid protective coatings.
- Nanostructured and multifunctional coatings.
- Environmentally friendly corrosion inhibitors.
- Green and sustainable alternatives to conventional inhibitors.
- Plasma or laser surface treatment.
- Smart and self-healing coatings with controlled release of inhibitors.

We welcome submissions of full papers, communications, and reviews.

Guest Editors

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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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