

Special Issue

Advanced Corrosion Protection through Coatings and Surface Rebuilding

Message from the Guest Editors

We are delighted to invite you to contribute original works to this Special Issue. Contributions should focus on the fundamentals and applications of corrosion protection through coatings and surface rebuilding. Topics of interest include, but are not limited to, the following:

- Novel ideas in the mechanisms of corrosion protective and preventive coatings using experimental, simulation, and theoretical analysis.
- Recent advances in sustainable coatings, smart coatings, organic coatings, hybrid coatings, and graded coatings.
- Recent advances in test methodologies that take into account mechanical, chemical, and electrochemical interactions, as well as the capacity to estimate the performance of coatings and surface rebuilding.
- Understanding the mechanisms of coating degradation caused by corrosion, wear, or other dynamic loading situations.
- Trendy materials, applications, and manufacturing techniques for coatings and surface rebuilding.
- Characteristics evaluation of corrosion-resistant coatings and nanostructured composite coatings.
- Environmental effects of coatings and surface rebuilding produced by various methods.

Guest Editors

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Deadline for manuscript submissions

closed (31 July 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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