

Special Issue

Exploring Corrosion Surfaces: A Microscopic Analysis of the Substrate and Coating Layers

Message from the Guest Editors

The development and application of anticorrosive coatings is a fundamental strategy for extending the service life of structural materials, promoting sustainable processes, and reducing safety risks associated with corrosion failures, which in some cases can have catastrophic consequences. Contributions related to the following topics

- Coating design and evaluation: Metallic, organic, ceramic, conversion, and hybrid coatings.
- Sustainable processes: Development of green technologies for the synthesis and application of functional coatings.
- Electrochemical corrosion: Degradation studies using advanced electrochemical techniques, such as EIS, Tafel, and cyclic voltammetry, among others.
- Mechanical properties: Evaluation of wear resistance, hardness, adhesion, and tribological behavior of coatings.
- Multi-technique characterization: Use of optical microscopy, confocal microscopy, atomic force microscopy (AFM), scanning electron microscopy (SEM), and other complementary techniques for the analysis of microstructure, morphology, and chemical composition.

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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