

Special Issue

Development and Characterization of Coatings and Surface Treatments for Corrosion, Wear, and Tribocorrosion Protection of Materials in Hostile Environments

Message from the Guest Editors

One of the greatest current concerns in corrosion science and surface engineering is the reduction and/or inhibition of materials deterioration in harsh working environments. This Special Issue will serve as a forum for papers in the following concepts:

Theoretical and experimental research, knowledge, and new ideas in protective coatings and surface treatments for the protection against wear, corrosion, and/or tribocorrosion;

Recent developments in multifunctional organic, inorganic, hybrid coatings;

Understanding the degradation mechanisms of new materials and/or coatings through friction, wear, corrosion, and/or tribocorrosion;

The latest development of test methods considering the interplay between mechanical, chemical, and electrochemical interactions for the assessment of protective coatings;

Correlation of laboratory scale accelerated testing and in-field performance of materials and/or protective coatings;

Computer modeling and simulation to predict the performance of materials and/or protective coating and their durability in real service conditions.

Guest Editors

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Deadline for manuscript submissions



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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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