Special Issue

Anti-Corrosion and Anti-Wear Coatings: Fundamentals, Technologies, and Applications

Message from the Guest Editors

Coatings have been widely used in many industries to improve the anti-corrosion and anti-wear properties of metallic substrates and extend the service life. This Special Issue will serve as a forum for papers discussing the following concepts:

- Theoretical and experimental research, knowledge, and new ideas in the design, preparation, and application of anti-wear and anti-corrosion coatings;
- Recent developments in anti-wear and anti-corrosion coatings, including organic, inorganic, and hybrid coatings, surface technology;
- Anti-wear and anti-corrosion coatings produced via different processes, including, additive manufacturing processes, plating, thermal spray, PVD, CVD, etc.;
- Research on the failure mechanisms of coatings through wear, corrosion, or wear/corrosion hybrid processes;
- The latest characterization technologies and testing methods for the mechanical properties, corrosion, and wear of coatings, and the interplay between mechanical, electrochemical, and tribological behaviors;
- Computer modeling, simulations regarding the preparation processes, properties, performance, and application of coatings.

Guest Editors

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Deadline for manuscript submissions

29 August 2025

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/202593

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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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