

Special Issue

Advanced Functional Coatings for Corrosion Protection

Message from the Guest Editor

Effectively prolonging the service life of metal materials in industrial applications is still a significant and urgent issue and one of great challenge. Functional coatings, such as self-healing coatings, superhydrophobic coatings, and lubricant-infused coatings, have attracted great attention in the field of corrosion protection in recent decades. In addition, the investigation of corrosion monitoring and corrosion protection mechanisms can fundamentally help us to improve the corrosion protection performance of the aforementioned coatings. The topics of interest for this Special Issue include (but are not limited to) the following:

- Anti-corrosive coatings;
- Self-healing coatings;
- Superhydrophobic coatings;
- Lubricant-infused coatings
- Corrosion monitoring;
- Surface and interface characterization;
- Corrosion protection mechanism;

We look forward to receiving your contributions.

Guest Editor

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Deadline for manuscript submissions

28 February 2026



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/220704

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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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