

Advanced Anticorrosion Coatings and Coating Testing

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Message from the Guest Editors

Dear Colleagues,

The corrosion of metals is a huge economic issue and seriously compromises safety in the industry, civil infrastructure, transport vehicles, etc. Coatings have proven to be one of the most efficient and reliable solutions for corrosion protection.

The suggested scope of this Special Issue includes (but is not limited to) the following concepts:

- Advanced organic, inorganic, polymeric and composite coatings for the corrosion protection of metals.
- Novel smart and multifunctional coatings, including self-healing coatings, self-cleaning coatings, high-performance inhibiting coatings, nanocomposite coatings, etc.
- Coatings for demanding applications under extreme conditions.
- Anticorrosion coatings with improved mechanical resistance and tribological properties.
- Advances in coating testing and validation of innovative testing methodologies which are more representative to service conditions than current procedures. Correlation between accelerated test result data from field exposure.
- Improved knowledge on protection mechanism, advances in theoretical research and simulation to reliably predict coating performance and failure mechanisms.



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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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