Special Issue

Advanced Coatings and Materials for Anti-Corrosion Performance

Message from the Guest Editors

Corrosion poses significant economic and safety challenges across industries, leading to material degradation and structural failures. Recent theoretical and experimental developments in multifunctional coatings covering metallic substrates are among the most exploited research systems in the field of corrosion science and engineering. The aim of this Special Issue is to publicize the current state of knowledge in the field of Advanced Anti-Corrosion Coatings and Materials. The scope of this Special Issue includes:

- Recent developments in multi-functional organic, inorganic, hybrid anti-corrosion coatings and materials.
- Computer modeling, simulation to predict coating properties, durability and reliability in service environments.
- Anti-corrosion coatings produced by different processes, including additive manufacturing processes, thermal spray, laser and plasma processing, CVD, plating, etc.
- Design and preparation of self-healing coating for corrosion protection.
- Nanocomposite anti-corrosion coatings and materials.
- Preparation, characterization and application of functional filler for anti-corrosion coatings.
- Any other advanced aspects of anti-corrosion coatings and materials.

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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