

Special Issue

Anticorrosive Nanomaterials and Nanostructured Coatings

Message from the Guest Editor

Corrosion is a significant challenge faced by industries across various sectors, and the development of effective anticorrosive coatings is of paramount importance. In this Special Issue, we will delve into the innovative approaches and novel materials that are being explored to combat corrosion. The focus will be on nanomaterials and nanostructured coatings, which offer unique advantages such as enhanced barrier properties, tailored surface interactions, and multifunctionality. Potential topics include, but are not limited to, the following:

- Two-dimensional (2D) nanomaterials for corrosion protection;
- Nanocomposite coatings with enhanced barrier properties;
- Bioinspired coatings;
- Surface engineering for enhanced corrosion resistance;
- Scale-up and commercialization of nanocoatings.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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