

Special Issue

Anti-corrosion Coatings of Metals and Alloys—New Perspectives

Message from the Guest Editors

We welcome original research papers and reviews focused on the complex relationships between the corrosion process and materials with and without coating, thin and thick films, surface, and interfaces in their environment. In extenso, we also accept toxicology subjects regarding these types of materials. Corrosion is a degradation of a material or its properties, by chemical reaction with the environment, currently affects all areas of the economy, from integrated circuits to reinforced concrete bridges, and extends to a wide spectrum of industries. In terms of biomaterial applications, one major inconvenient aspect is degradation, which occurs due to the material's interaction with the human body or physiological fluids. Corrosion resistance can be considered a vital property for biomaterial components, and it is associated with the problem of metallic ion release. Allergic reactions to substances in products and devices, in both professional and private life, are a significant and growing health problem, affecting large parts of the population. Corrosion and toxicity continue to attract research attention.

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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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