

Special Issue

Functional Coatings in Electrochemistry and Electrocatalysis

Message from the Guest Editors

This Special Issue provides a comprehensive overview of the most relevant research on coatings and functional materials within the fields of electrochemistry and electrocatalysis. It addresses critical topics such as air pollution, advanced treatment techniques for contaminated water, and effective adsorption methods to eliminate various contaminants. Additionally, it explores the role of nanotechnology in enhancing water treatment processes, emphasizing innovative approaches that leverage the unique properties of nanomaterials. Particular attention is also paid to membrane technologies, detailing their characteristics and applications within the environmental sector, especially regarding waste treatment and the reuse of solid waste produced by industries. By bringing together these diverse yet interconnected themes, this issue aims to contribute meaningfully to environmental protection efforts. The findings presented here are intended to equip professionals in the industrial sector with the necessary knowledge and tools to ensure compliance with increasingly stringent environmental standards.

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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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