

Special Issue

Advanced Coating Research for Metal Surface Protection

Message from the Guest Editors

Metal surface protection is a critical area of research due to the wide range of applications in which it can be applied. Industries such as aerospace, automotive, marine, and electronics are constantly looking for innovative and high-performance solutions. With the increasing demand for materials that can withstand harsh environments and corrosion, there is a growing need for advanced coating solutions that offer superior protection and durability. From enhancing the longevity of critical infrastructure to revolutionizing the performance of next-generation electronics, coatings play a pivotal role in safeguarding metal surfaces against corrosion, wear, and environmental degradation. This Special Issue aims to collect scientific contributions related to conventional or unconventional processes and highlight new aspects of processing and manufacturing methods, coating technology, and materials that can be used to produce high-performance components. Furthermore, characterization methods and computational approaches for modeling the process and material properties and contributions featuring an environmental impact analysis (LCA) are of interest.

Guest Editors

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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