

Special Issue

Advances in Surface Treatments and Coatings for Corrosion Protection

Message from the Guest Editors

Corrosion is well known to be a hazardous and tremendously expensive issue. The fundamental factor influencing how metal alloys behave when they corrode is surface interaction with the environment. Metals and alloys can be protected against corrosion using a variety of techniques, such as the application of coatings, the use of corrosion inhibitors, and cathodic/anodic protection. To prevent damaging issues in various industries, coating applications for corrosion control, protection, and prevention are becoming more and more popular today. Additionally, as metallic materials are used in a variety of industrial sectors, the development and promotion of new and enhanced surface treatments considerably contribute to new functionalities of metallic materials. In this regard, the present Special Issue aims to summarize and highlight the latest achievements in the literature, experimental work, and analytical techniques related to recent advances in the field of surface treatments and coatings applied to various metals and alloys to provide different functionalities.

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Message from the Editorial Board

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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