Special Issue

Advances in Surface Corrosion Protection of Alloys

Message from the Guest Editor

Extensive research has been devoted to methods of preventing the corrosion of metallic alloys in the past few decades. Recently, several innovative approaches based on the evolution of surface treatments and coating materials have been discussed in the scientific community. This Special Issue will act as a forum for researchers to discuss the most recent advances in methods and materials for surface protection. We welcome both experimental and computational studies in the following areas: corrosion protection of light alloys (magnesium, aluminum and titanium alloys), steels (carbon steels, stainless steels, high-strength low-alloy steels, advanced high-strength steels), and multiprincipal element alloys, surface treatments (anodization, micro-arc oxidation), plasma-based coatings, organic coatings, graphene-based coatings, surface protection in the oil and gas industry, amorphous coatings, laser-assisted surface treatment methods, and corrosion mechanisms of alloys. Review articles are also encouraged.

Guest Editor

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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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