Special Issue

Innovative Approaches to Enhancing Corrosion Resistance in Stainless Steel and Other Corrosion-Resistant Alloys

Message from the Guest Editors

This Special Issue aims to provide a research forum for reporting innovative and advanced approaches to enhance the corrosion resistance of stainless steel and other CRAs. We welcome your submissions in the form of original research articles, reviews, and short communications. Research areas may include (but are not limited to) the following:

- Surface treatments and coatings to improve the corrosion resistance of stainless steel and other CRAs. Examples encompass smart coatings, organic coatings, inorganic coatings, plasma and laser treatment, etc.
- Alloy modifications aimed at improving the corrosion resistance of stainless steel and alloys.
- Microstructure modification via thermal treatment and other surface enhancement approaches.
- Electrochemical techniques to improve corrosion resistance, such as electroplating and cathodic protection.
- Advanced tools for the study of corrosion and corrosion resistance of stainless steel and alloys in service environments.

We look forward to receiving your contributions.

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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