Special Issue

Study on Electrochemical Behavior and Corrosion of Materials

Message from the Guest Editors

By understanding electrochemical processes and applying protective coatings, we can significantly reduce economic losses, decrease raw material consumption, and prevent unnecessary risks associated with failures. Furthermore, advancements in engineering demand materials with specific electrochemical properties, such as those required for catalytic processes or energy production and storage, which must become more efficient to lower costs. For these reasons, this Special Issue aims to bring together research on advances in electrochemical characterization, corrosion studies and protection, as well as new applications and developments in this field. Topics of interest include, but are not limited to, the following:

- Electrochemical characterization of materials;
- Corrosion kinetics and passivity;
- Mechanisms and methods of corrosion control;
- Corrosion inhibitors;
- Cathodic protection;
- Protective coatings;
- Surface pretreatments.

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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