Special Issue

Corrosion and Protection Technology of Metallic Materials

Message from the Guest Editor

As an “inevitable” process, the corrosion of metallic materials causes severe damage to the function of serving metals and the surrounding environment. The world average corrosion loss accounts for 3.4% of the global gross national product (GNP). Corrosion damage is common for materials severed in marine, soil, oil and gas exploitation, and in oral environments. Various techniques, such as coatings, anodic/cathodic protection, corrosion inhibitors, material design, etc., have been developed for corrosion protection. However, in-depth research on corrosion mechanisms and corrosion-protective techniques for special environments is still desirable. For example, the development of sustainable and eco-friendly corrosion inhibitors is urgently required in many industries. For this Special Issue of *Metals*, we welcome reviews and research articles in the areas of corrosion mechanism, corrosion inhibitor development, microbiologically influenced corrosion (inhibition), the development of protective coatings, and the design of novel alloys with antibacterial or corrosion inhibition effects.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editor-in-Chief

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