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The Electrochemical and Corrosion Behaviour of Structural Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (10 April 2020)

Message from the Guest Editor

Dear Colleagues,

This Special Issue of *Metals* focuses on studies that describe innovative and original analyses concerning the corrosion and electrochemical performance of structural materials. The following is a short description of the several research topics suggested for this Special Issue:

- The use of electrochemical methods to characterize the corrosion performance in several media, including atmospheric, marine, or high-temperature environments. To include these methodologies to control the in-situ performance in real structures, non-destructive tests are particularly attractive;
- The assessment of protective methods to prevent and/or lessen the corrosion process, with the final purpose of prolonging the service life of existing and new structures;
- An analysis of the corrosion mechanisms to establish the nature of the phenomenon;
- Desirable corrosion reactions, for example, anodizing, to assist the corrosion resistance or for decorative purposes.

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Editor-in-Chief

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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.

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