



Corrosion Behavior of Structural Materials: New Strategies for Sustainability

Guest Editor:

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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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Message from the Editorial Board

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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