



The Electrochemical and Corrosion Behaviour of Structural Materials

Guest Editor:

Prof. Dr. Belén Díaz Fernández

Department of Materials Science
and Engineering, University of
Vigo, 36310 Vigo, Spain

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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Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

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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Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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