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Corrosion and Protection of Materials

Guest Editor:

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closed (30 September 2020)

Message from the Guest Editor

Dear Colleagues,

The economic impact of materials corrosion has constantly increased as the GDP has grown during the years. It can be concluded that the application of corrosion prevention strategies must be improved, which entails a transition from the corrosion mechanism to in-field applications.

New materials and technologies (high-entropy alloys, ultra-fine-grained metals, innovative smart coatings, new joining technologies, and additive manufacturing) surely open new outlooks in the corrosion science and engineering panorama, which is moving from well-consolidated knowledge towards exciting new challenges.

The aim of this Special Issue is to give an updated outlook of the main corrosion-protection topics regarding both traditional and innovative materials. Full papers, communications, and reviews reporting the results of more traditional tests based on weight loss or electrochemical techniques as well as more innovative local corrosion techniques (microcell, SKPFM, etc.) and failure analysis are expected.



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Special Issue



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Message from the Editor-in-Chief

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