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Corrosion and Protection of Metals and Alloys: Recent Advances and Future Prospects

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Deadline for manuscript submissions:

closed (20 April 2024)

Message from the Guest Editors

Dear Colleagues,

Several studies published during the last decades have emphasized that the corrosion of materials costs society 3-5% of GDP yearly. This is mainly due to the necessity to rebuild or restore preexisting damaged structures, resulting in a significant economic and environmental impact. Therefore, the topic of corrosion protection and prevention strategies is a hot topic nowadays. As a consequence of this, several approaches are being thoroughly investigated, ranging from protective coatings to inherently corrosion-resistant alloys. However, the corrosion behavior of metals is greatly dependent on the environmental conditions of application, but also composition, microstructure and surface finishing. Additionally, the rise of new technologies and materials results in innovative materials and microstructures, characterized by unique combinations of properties and corrosion behaviors.

This Special Issue aims at collecting works dealing with the corrosion behavior of metals and alloys. Additionally, authors focusing on corrosion protection mechanisms, surface treatments and innovative characterization techniques are very welcome to submit their works.



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Special Issue



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Message from the Editor-in-Chief

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