

Special Issue

Corrosion and Protection with Hard Coatings

Message from the Guest Editors

The ever-increasing demand for durable and reliable materials in diverse industries highlights the critical importance of effective corrosion protection strategies. This Special Issue focuses on the innovative application of hard coatings to combat corrosion across various environments and applications. Hard coatings are coatings deposited on metallic substrates to improve their desired properties, such as hardness, friction, wear resistance, and corrosion resistance, without modifying the properties of the substrate. The most important properties of the coating are hot hardness, good adhesion to the substrate, and chemical stability. In this sense, many coating systems comply with these characteristics, such as type III hard anodizing; APS, HVAF, and HVOF systems; CVD and PVD, etc. This Special Issue, titled “Corrosion and Protection with Hard Coatings”, will collect papers on the fabrication, characterization, and simulation of and technological advances in coatings regarding corrosion resistance, hardness, friction, and wear resistance.

Guest Editors

Prof. Dr. José A. Cabral-Miramontes

FIME, Universidad Autónoma de Nuevo León Centro de Investigación e Innovación en Ingeniería Aeronáutica (CIIIA), San Nicolás de los Garza 66455, Mexico

Prof. Dr. Facundo Almeraya-Calderón

Center for Innovation and Research in Aeronautical Engineering, Faculty of Mechanical and Electrical Engineering, Autonomous University of Nuevo León, San Nicolás de los Garza 66455, Mexico

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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