

Corrosion and Anticorrosion of Alloys/Metals

Guest Editors:

Dr. Henryk Kania

Department of Metallurgy and Recycling, Faculty of Materials Engineering, Silesian University of Technology, Krasińskiego 8, 40-019 Katowice, Poland

Dr. Anżelina Marek

Department of Metallurgy and Recycling, Katowice, 40-019, Krasinskiego 8, Silesian University of Technology, 44-100 Gliwice, Poland

Dr. Florence Lequien

CEA, Service de Recherche en Corrosion et Comportement des Matériaux, Université Paris-Saclay, 91191 Gif-sur-Yvette, France

Message from the Guest Editors

In economic and social terms, corrosion is an extremely important problem for the economy. The physicochemical and electrochemical interaction between metals and their alloys and the surrounding environment leads to the gradual deterioration of the materials until their mechanical and functional properties are completely lost. Corrosion awareness and knowledge of the corrosion mechanism are necessary for the design, selection of materials, and protection systems in order to ensure optimal durability of products under the influence of a corrosive environment.

The scope of this special edition "Corrosion and Anticorrosion of Alloys / Metals" covers research into the latest developments in the wear and corrosive behavior of various materials to understand the corrosion mechanisms of metals and alloys. The topics also include the production of anti-corrosion coatings, their structural characteristics, tests of properties, and physicochemical phenomena occurring during the formation of coatings on various base materials.

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Special Issue

Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New
Ceramics and Fine Processing,
School of Materials Science &
Engineering, Tsinghua University,
Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam
Mickiewicz University in Poznań,
ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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