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Corrosion Resistance of Alloy and Coating Materials

Guest Editor:

Prof. Dr. Zbigniew Brytan
Department of Engineering Materials and Biomaterials, Mechanical Engineering Faculty, Silesian University of Technology, ul. Konarskiego, 18a, 44-100 Gliwice, Poland

Deadline for manuscript submissions:
closed (20 July 2022)

Message from the Guest Editor

The material property of corrosion resistance is one of the most important in practical applications. The material degradation can be minimized by the use of suitable alloys and corrosion-resistant coatings.

Hence, the purpose of this Special Issue is to explore the current status of the development and performance of all aspects of alloys, coatings, and surface modification methods aimed at improving the corrosion resistance of the material.

The scope of this Issue is extensive, giving the possibility to present developments and research in all aspects of this field, and includes both metallic and non-metallic corrosion. Research topics include but are not limited to the following: cause and rate of corrosion of alloys and coating materials and methods of investigation, quality and mechanisms of deterioration, corrosion protection, and testing to assess corrosion resistance. Subjects of interest will also include the corrosion behavior of metals and their alloys (e.g., aluminum alloys, titanium alloys, and nickel alloys); PVD, CVD, and ALD coatings; and other materials, including nanomaterials.

I kindly invite you to submit your work to this Special Issue.

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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