



Microstructure and Corrosion Behavior of Advanced Alloys

Collection Editor:

Dr. Marián Palcut

Slovak University of Technology
in Bratislava, Bratislava, Slovakia

Message from the Collection Editor

In this Special Issue, original research papers and reviews focused on the complex relationships between the microstructure, phase constitution, and corrosion behavior of metallic materials will be presented. Furthermore, possibilities for increasing the corrosion resistance of metallic materials by means of surface modification and application of protective layers will be explored. Both high temperature and low temperature corrosion studies in aqueous and non-aqueous electrolytes are welcome as long as they investigate the electrochemical processes taking place at the material's interfaces.

Keywords

- light metals and alloys
- ferrous and non-ferrous alloys
- complex alloys
- electrochemistry of corroding interfaces
- local corrosion
- corrosion-resistant coatings and their characterization
- surface modification of advanced alloys





an Open Access Journal by MDPI

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)