Special Issue

New Advances in Corrosion Inhibitor for Metals and Alloys

Message from the Guest Editor

Corrosion of metals and alloys remains a significant challenge across various industries, leading to substantial economic losses and safety concerns. The development of effective corrosion inhibitors is crucial to mitigate these issues and extend the lifespan of metallic structures. This special issue, brings together cutting-edge research and innovative approaches in the field of corrosion inhibition. The contributions cover a wide range of topics, including the synthesis and characterization of novel inhibitors, eco-friendly and sustainable corrosion inhibitors, computational modeling for inhibitor design, and the application of advanced techniques for performance evaluation. Topics include, but are not limited to, methods and/or applications in the following areas:

- Synthesis and Characterization of Novel Corrosion Inhibitors
- Green and Sustainable Corrosion Inhibitors
- Nanotechnology in Corrosion Inhibition
- Computational and Theoretical Approaches
- Electrochemical Techniques for Corrosion Monitoring
- Smart and Functional Materials
- Industrial Applications of Corrosion Inhibitors.

Guest Editor

Prof. Dr. Omar Dagdag

Department of Mechanical Engineering, Gachon University, Seongnam 13120, Republic of Korea

Deadline for manuscript submissions

20 April 2026

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/232213

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

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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.

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

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