Special Issue

Corrosion of Materials: Evaluation, Testing, Protection, and Failure Analysis, Second Edition

Message from the Guest Editors

The corrosion failure of materials has been a long-term, worldwide issue, causing huge economic losses and accidental disasters. Corrosion protection research comprises an important step towards sustainable actions to protect our environment and to conserve resources. With technical innovations, there have been new corrosion problems arising given the emergence and application of new materials. In this context, the present Special Issue aims to collect state-of-the-art research, providing a forum for discussion on recent advances in corrosion evaluation, testing, protection, and failure analysis. We welcome high-quality original research and review articles on themes including, but not limited to, the following:

- Corrosion behaviors and mechanisms;
- Failure analysis;
- Surface modification;
- Advanced coatings;
- Corrosion inhibitors and smart carriers;
- Corrosion inhibition mechanism by DFT calculation and molecular dynamics simulation;
- Electrochemical characterization;
- New monitoring, evaluation, simulation, and prediction methods.

We look forward to receiving your contributions.

Guest Editors

Dr. You Zhang

College of New Materials and Chemical Engineering, Beijing Institute of Petrochemical Technology, Beijing 102617, China

Dr. Yujie Qiang

National Center for Materials Service Safety, University of Science and Technology Beijing, Beijing 100083, China

Deadline for manuscript submissions

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

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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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