



materials



an Open Access Journal by MDPI

Stress Corrosion Cracking in Materials

Guest Editors:

Prof. Dr. Alex A. Volinsky

Department of Mechanical
Engineering, University of South
Florida, Tampa, FL 33620, USA

Prof. Dr. Lijie Qiao

Institute for Advanced Materials
and Technology, University of
Science and Technology Beijing,
Beijing 100083, China

Deadline for manuscript
submissions:

closed (31 January 2017)

Message from the Guest Editors

Dear Colleagues,

Stress corrosion cracking (SCC) can cause premature failure of materials in a corrosive environment at low stress levels. In many cases, SCC can cause catastrophic and unexpected failure. Full understanding of the exact mechanisms is lacking, as they can be material-specific. For example, alloying elements strongly affect SCC of stainless steel. However, all three classes of materials, metals, ceramics and polymers, can be affected by SCC. This Special Issue on “Stress Corrosion Cracking in Materials” will focus on fundamental aspects of SCC. Individual research articles or comprehensive reviews on SCC are welcome. This Special Issue will cover the latest research on this important topic.

Prof. Dr. Alex A. Volinsky

Prof. Dr. Lijie Qiao

Guest Editors



mdpi.com/si/7025

Special Issue



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)