

Special Issue

Stainless Steel for a Sustainable Future

Message from the Guest Editor

In this Special Issue, we aim to share and discuss research findings on science and designs of sustainable stainless steels, which covers the following but is not limited to:

- environmental (corrosion, oxidization, creep, wear, fatigue, etc.) resistances to hazardous conditions;
- phase stability and microstructural evolution and their couplings to long-term behaviors of materials;
- correlations of lattice defects (point defects, stacking faults, twinning, dislocations, etc.) with the improvement or degradation of mechanical and physical responses;
- general investigations of alloying effects and compositional engineering on developing desired properties.

Other topics involving advances in fabrication processes and functional properties for a sustainable future are also welcomed. Both experimental and theoretical tools, as well as their hybrids, are acceptable in studying these topics.

Guest Editor

Dr. Yifeng Wu

Department of Materials Science and Engineering, North Carolina State University, Raleigh, NC 27695, USA

Deadline for manuscript submissions

closed (31 December 2022)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/101620

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

[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)