



Sustainable Engineering Trends and Challenges Toward Industry 4.0

Guest Editors:

Prof. Dr. Andreea Cristina Ionica

Department of Management and Industrial Engineering, University of Petrosani, 332006 Petrosani, Romania

Dr. Jose Machado

Mechanical Engineering Department, METRICs Research Center, University of Minho, 4800-058 Guimarães, Portugal

Deadline for manuscript submissions:

30 September 2025

Message from the Guest Editors

Dear Colleagues,

The aim of this Special Issue is to explore the latest advancements in sustainable engineering within the context of Industry 4.0. Aligned with the journal's mission to promote sustainable development, this Special Issue will focus on how the increasing digitalization of industries impacts environmental sustainability.

Topics of interest include, but are not limited to, the following:

- Sustainable design, and innovation for Industry 4.0;
- Lifecycle assessment and management of systems for sustainability;
- Green cloud computing, big data, and resource optimization;
- Integrating sustainability into software development methodologies and project management practices;
- Balancing sustainability with quality assurance and performance;
- Innovations in sustainable engineering tools, frameworks, and best practices;
- The role of sustainable engineering in driving innovation and fostering resilient systems.

We look forward to receiving your contributions.





an Open Access Journal by MDPI

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

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.

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, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)