

Special Issue

Advancements in Sustainable Manufacturing Systems and Risk Management

Message from the Guest Editors

Industry 5.0 shifts manufacturing beyond efficiency, focusing on human-centricity and sustainability. Integrating digital technologies with human expertise demands balancing innovation with environmental and social responsibility. Key areas include risk management, cybersecurity, and workforce empowerment. Technologies like AI and digital twins enhance planning and risk response, while human-centric approaches promote collaboration and ethical AI. This Special Issue invites research and reviews on strategies and technologies for sustainable, and human-centered manufacturing:

- Industry 5.0 and human-centric manufacturing;
- Sustainable and resilient manufacturing systems;
- Risk management in Industry 4.0 and 5.0;
- AI, machine learning, and decision intelligence in manufacturing;
- Cybersecurity in smart and connected factories;
- Circular economy and lifecycle assessment;
- Renewable energy integration in industrial processes;
- Green and ethical supply chain management;
- Collaborative robotics and augmented workforce;
- Lean, agile, and adaptive manufacturing strategies;
- Digital transformation and intelligent automation.

Guest Editors

Dr. Pier Francesco Orrù

Department of Mechanical, Chemical and Materials Engineering,
University of Cagliari, 09123 Cagliari, Italy

Dr. Anna de Carolis

Department of Management, Economics and Industrial Engineering,
Politecnico di Milano, Milano, Italy

Deadline for manuscript submissions

29 April 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/237353

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)