

Special Issue

Sustainable Innovation: Integrating Green Computing, Renewable Energy and Smart Power Systems

Message from the Guest Editor

This Special Issue aims to offer green energy and advanced technology solutions, such as hardware design and algorithms integrated into renewable energy sources. Two concepts are included as the sustainable technology and the world of data, the Internet of Things, or the proper use of AI. Nanotechnologies allow us to develop smart solutions that optimize resource usage, minimize impact, and develop more sustainable technologies. Advances in the digital transformation framework can substantially contribute to energy consumption and carbon emissions. Green Data Center technologies are addressed to such sustainability challenges, integrating energy-efficient designs, renewable energy, and waste-heat recovery solutions that focus on intelligent management systems, monitoring, predictive analysis, and optimized energy management, helping operators to minimize cooling needs, reduce inefficiencies, and maximize renewable energy use. Optimized energy management using next-generation materials, smart grids, and the integration of renewable energy and smart technologies can provide a significant impact on environment systems.

Guest Editor

Dr. Grazia Lo Sciuto

1. Department of Electrical, Electronics and Informatics Engineering, University of Catania, Viale Andrea Doria 6, 95125 Catania, Italy
2. Department of Production Technology and Systems, Faculty of Industrial Technology, Technical University—Sofia, 1000 Sofia, Bulgaria

Deadline for manuscript submissions

10 October 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/257278

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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

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, CAPlus / SciFinder, and other databases.

Journal Rank:

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