

Special Issue

Advanced Technologies for Sustainable and Low-Carbon Energy Solutions

Message from the Guest Editors

The transition toward a sustainable and low-carbon energy future is vital to addressing climate change and environmental challenges. This Special Issue aims to explore cutting-edge technological innovations and strategies that are reshaping the global energy landscape while promoting environmental sustainability. This Special Issue focuses on interdisciplinary research that bridges the gap between theoretical advances and practical applications in sustainable energy technologies. This collection of research papers will provide valuable insights into technological breakthroughs, implementation strategies, and policy recommendations that can accelerate the transition to a low-carbon future. By bringing together diverse perspectives from researchers, engineers, policymakers, and industry experts, this Special Issue aims to contribute to the growing body of knowledge on sustainable energy solutions and their role in achieving global climate goals. The featured research will not only advance our understanding of cutting-edge technologies, but also provide practical insights for stakeholders working toward a more sustainable and resilient energy future.

Guest Editors

Dr. Sunel Kumar

Dr. Xinlu Han

Dr. Dingkun Yuan

Dr. Tariq Aziz

Deadline for manuscript submissions

31 December 2025



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/221983

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)