

Special Issue

Sustainable Life Cycle Approaches in Road Construction, Pavement Engineering, and Management

Message from the Guest Editors

This Special Issue aims to explore integrated life cycle approaches that encompass the entire lifespan of road infrastructure—from design, material production, and construction to maintenance, rehabilitation, and end-of-life management. By addressing the environmental, economic, and social dimensions of sustainability, this Special Issue aligns with the journal's scope on advancing innovative, interdisciplinary methods for sustainable infrastructure development. We welcome original research articles and review papers covering (but not limited to) the following themes:

- Life Cycle Assessment (LCA), Life Cycle Cost Analysis (LCCA), and Social LCA in road engineering;
- Circular economy and decarbonization strategies in pavement design and maintenance;
- Sustainable construction practices and material innovations;
- Resilience and long-term performance in infrastructure planning;
- Digital tools (e.g., BIM, DT) for sustainable infrastructure management.

We look forward to receiving your contributions.

Guest Editors

Dr. Konstantinos Mantalovas

Department of Engineering, University of Palermo, Viale delle Scienze, Edificio 8, 90128 Palermo, Italy

Dr. Gaetano Di Mino

Department of Engineering, University of Palermo, Viale delle Scienze, Edificio 8, 90128 Palermo, Italy

Deadline for manuscript submissions

28 February 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/244934

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)