Special Issue

Sustainable Innovative Solutions for Pavement Construction and Resilient Infrastructure

Message from the Guest Editors

Recently, the focus of pavement construction has changed from new construction to pavement maintenance and rehabilitation. Various detection methods including ground-penetrating radar have been used for the fast and accurate evaluation of defeat areas to decrease maintenance area. To save materials and reduce the burden on landfill, asphalt recycling has become more important and widely used. Hot in-place recycling (HIR) is a process used to recycle 100% of the existing asphalt pavement on site, and it has proven to be one of the most viable and economic rehabilitation techniques that is used for deteriorated asphalt pavement. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Ground-penetrating radar;
- Pavement defect intelligent identification methods;
- Recycled aggregate and its application in road materials;
- Asphalt pavement recycling materials, technology, and equipment;
- Asphalt pavement heating methods.

We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Min Ye

National Engineering Research Center for Highway Maintenance Equipment, Chang'an University, Xi'an 710064, China

Dr. Jiyoung Rhee

Research Institute, Korea Expressway Corporation, 208-96, Dongbudaero, 922 beon-gil, Hwaseong-si 18489, Republic of Korea

Deadline for manuscript submissions

closed (15 April 2025)



Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/209234

Sustainability Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 sustainability@mdpi.com

mdpi.com/journal/ sustainability





Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



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)

