

## Special Issue

# Sustainable Railway Construction, Operation and Transportation

### Message from the Guest Editors

Dear Researchers, This Special Issue is dedicated to exploring and advancing the principles of sustainability within the domain of railway systems, encompassing construction, operation and transportation. The Sustainable Railway Construction issue is shedding light on environmentally responsible construction methodologies, eco-friendly materials and sustainable design approaches. Contributions within this domain examine novel materials, construction techniques and sustainable infrastructure design, with a keen focus on minimizing ecological impact and optimizing long-term resilience. The Sustainable Railway Operation issue is exploring advancements in energy-efficient operations, intelligent traffic management systems and predictive maintenance protocols. Researches in this domain aim to enhance operational efficiency while minimizing the ecological footprint of railway services. The Sustainable Railway Transportation issue is addressing the broader implications of rail travel in the context of environmental sustainability. Insights from this section contribute to the development of policies and practices that encourage environmentally conscious transportation choices.

### Guest Editors

Prof. Dr. Jozef Gasparik

Department of Railway Transport, Faculty of Operation and Economics of Transport and Communications, University of Žilina, 010 26 Žilina, Slovakia

Prof. Dr. Libor Ižvolt

Department of Railway Engineering and Track Management, Faculty of Civil Engineering, University of Žilina, 010 26 Žilina, Slovakia

### Deadline for manuscript submissions

closed (6 October 2024)



**Sustainability**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.3**  
**CiteScore 7.7**



[mdpi.com/si/196595](https://mdpi.com/si/196595)

*Sustainability*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto: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)