



## Sustainable Design and Risk Assessment for Railway Engineering

Guest Editors:

**Dr. Hao Pu**

**Prof. Dr. Jun Zhu**

**Dr. Wei Li**

**Dr. Hong Zhang**

Deadline for manuscript  
submissions:

**closed (31 December 2023)**

### Message from the Guest Editors

With the increasing complexity of railway construction environments, the railway suffers increasingly more risks from surrounding natural and humanistic environments, such as geological risks, operational risks, economic risks, etc. It is vital to properly account for different kinds of risks on the railway during the design process. On the other hand, the impacts of the railway on the surrounding environments through its lifecycle are also important, and need to be considered in the design process. Consequently, assessing the impacts of different railway structures (i.e., tunnels, bridge, cuts, and fills) on the natural ecology, economy, and society is a vital task. Therefore, it is necessary to explore the coupling relationships between railway structures and multiple environments to mitigate the impacts among them to realize a sustainable railway design.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Steve W. Lyon**

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

## 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.

## 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)

## Contact Us

---

*Sustainability* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[X@Sus\\_MDPI](#)