

## Special Issue

# Geoinfrastructure: A Comprehensive Review of Current Trends, Challenges and Future Perspectives

### Message from the Guest Editors

Geoinfrastructure has been widely constructed and operated from ancient history to the modern day, including caves, channels, roads, highways, railways, airports, etc., manually or mechanically fabricated by raw earth or treated soils. For the multi-minerals and clay minerals within geomaterials, the derived geoinfrastructure services under the multi-field environments (thermo-hydro-chemo-bio-mechanical) are especially affected by global climate change. The performance response, including the interaction between the soil and structure, i.e., the enhancement and deterioration, is complex, but it is very important to improve infrastructure resilience and the full life-cycle's efficiency. For further reading, please follow the link to the Special Issue Website at: [https://www.mdpi.com/journal/geosciences/special\\_issues/TLPG5C2ZP9](https://www.mdpi.com/journal/geosciences/special_issues/TLPG5C2ZP9)

### Guest Editors

Prof. Dr. Yongfeng Deng

Prof. Dr. Feng Zhou

Prof. Dr. Zi Ying

### Deadline for manuscript submissions

20 October 2025



## Geosciences

an Open Access Journal  
by MDPI

Impact Factor 2.1  
CiteScore 5.1



[mdpi.com/si/231905](https://mdpi.com/si/231905)

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

[mdpi.com/journal/  
geosciences](https://mdpi.com/journal/geosciences)





# Geosciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.1  
CiteScore 5.1



[mdpi.com/journal/  
geosciences](https://mdpi.com/journal/geosciences)



## About the Journal

### Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

---

### Editor-in-Chief

Prof. Dr. John C. Eichelberger

Alaska Center for Energy and Power, University of Alaska Fairbanks,  
Fairbanks, AK, USA

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, ESCI (Web of Science), GeoRef, Astrophysics Data System, and other databases.

#### Journal Rank:

CiteScore - Q1 (General Earth and Planetary Sciences)