

## Special Issue

# Advances in Seismic Sedimentology and Geomorphology

### Message from the Guest Editors

Seismic sedimentology is the use of seismic data in the study of sedimentary rocks and the processes via which they were formed. The techniques employed in seismic sedimentology include 90° phase shaping, seismic lithologic inversion and attribute analysis, geologic time slice-based seismic geomorphological analysis, and more recently, machine learning, among others.

Nevertheless, challenges remain. The associated concepts and methods must be enhanced, and more case studies from various reservoir types are required.

This Special Issue aims to provide an overview of the latest research, methodologies, and case studies on seismic sedimentology and geomorphology. We welcome the submission of high-quality, original research papers that address the following topics:

- New or improved methods of seismic lithology
- New or improved methods of seismic geomorphology
- Mapping of thin depositional elements and reservoir compartments
- Case studies in non-marine facies and deep-water systems
- Mapping of mixed clastic–carbonate sequences

---

### Guest Editors

Dr. Hongliu Zeng

Dr. Dallas B Dunlap

Prof. Dr. Xiaomin Zhu

---

### Deadline for manuscript submissions

closed (10 July 2025)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/205806](https://mdpi.com/si/205806)

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

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





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



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



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

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

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )