

## Special Issue

# Interaction between Physical and Biological Processes in Shallow-Sea Environments: Present vs Past Case Studies

### Message from the Guest Editors

This Issue aims to highlight the complex interplay among biological and physical dynamics which concur in controlling the development of shallow marine systems, as well as their potential flourishing or demise. Shallow-sea environments typically show variable hydrodynamic and biological factors which interact at various scales of time and space, influencing or driving the arrangement of ancient marine deposits. At present, the global warming effects and the direct human impacts are concentrated along coastal areas, causing multiple stresses (sea-level rise, increase of extreme events, potential acidification, pollution, exploitation of marine biological resources) and inducing sudden changes in the littoral biological and sedimentary systems. Contributions by clastic and carbonate sedimentologists, ecologists, and biogeoscientists that focus on these complex dynamics are the most welcome for this Issue. Studies on ancient shallow-sea successions, present-day examples, and numerical-analogical approaches are encouraged, as are interdisciplinary contributions.

### Guest Editors

Dr. Stefania Nunzia Lisco

Department of Earth and Geoenvironmental Sciences, University of Bari "Aldo Moro", Campus Universitario, Via Orabona 4, 70124 Bari, Italy

Dr. Irene Cornacchia

Istituto di Geoscienze e Georisorse, CNR, via G. Moruzzi 1, 56124 Pisa, Italy

### Deadline for manuscript submissions

closed (28 August 2021)



## Geosciences

an Open Access Journal  
by MDPI

Impact Factor 2.1  
CiteScore 5.1



[mdpi.com/si/56206](https://mdpi.com/si/56206)

*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)