



## Recent Advances on Sediment Transport and River Morphodynamics

Guest Editor:

**Dr. Simona Francalanci**

Dipartimento di Ingegneria Civile  
e Ambientale (DICEA), University  
of Florence, Florence, Italy

Deadline for manuscript  
submissions:

**closed (31 March 2023)**

### Message from the Guest Editor

Dear Colleagues,

The linkage between sediment transport processes and morphodynamics is one of the most fascinating and challenging topics in river hydraulics, which has drawn the attention of many researchers in the last few decades.

This Special Issue moves from the knowledge of basic processes regarding sediment transport and river morphodynamics towards the most recent advances in this field; contributions on, but not limited to, the following specific subjects are welcome:

- Sediment transport processes and sediment non-uniformity affecting river morphodynamics;
- Evolution processes in natural rivers, such as sand and gravel bed rivers, and possible strategies for optimal management (e.g., gravel or sand nourishment, correction of morphology);
- Morphodynamic processes in meandering and braided rivers;
- Active dynamics in highly human impacted rivers, and optimal strategies for river restoration;
- Bank erosion and/or bank accretion, and possible feedbacks with channel evolution;
- The role of vegetation in shaping the river environment, and possible feedbacks with sediment transport and morphodynamics.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Alberto G. Fairén

1. Centro de Astrobiología, CSIC-INTA, Madrid, Spain
2. Department of Astronomy, Cornell University, Ithaca, NY, USA

## 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.

## 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 - Q2 (General Earth and Planetary Sciences)

## Contact Us

---

Geosciences Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/geosciences](http://mdpi.com/journal/geosciences)  
[geosciences@mdpi.com](mailto:geosciences@mdpi.com)  
[X@Geosciences\\_OA](https://twitter.com/Geosciences_OA)