

## Special Issue

# Advancements in Marine Geology: Underwater Exploration and Geophysical Insights

### Message from the Guest Editors

Our planet is predominantly covered by water, with over 70% of its surface submerged, of which 90% is seawater. The oceans hide key geological features resulting from complex Earth processes, such as tectonic plate divergence and associated volcanism. Exploring the seafloor is essential for understanding Earth's internal dynamics, a field still in its early stages. Since the 1960s, advances in technology have progressively refined our knowledge of ocean floor morphology and tectonics. Modern investigative techniques based on remotely operated and autonomous vehicles, combined with large-scale geophysical mapping (including multibeam bathymetry, satellite altimetry, magnetics, gravity, and seismic imaging), now provide unprecedented insights into oceanic geomorphology and its underlying processes. We invite research contributions across a wide spectrum of marine geoscience. Topics of interest include deep-ocean studies on seafloor morphology, tectonics and plate interactions (convergence and divergence). Contributions that employ multidisciplinary approaches and innovative survey techniques are particularly welcome.

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### Guest Editors

Dr. Filippo Muccini  
Dr. Luca Cocchi  
Dr. Camilla Palmiotto

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### Deadline for manuscript submissions

31 December 2026



## Geosciences

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## 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.

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### Editor-in-Chief

Prof. Dr. Alberto G. Fairén

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