

# Special Issue

## Insights in Planetary Geology

### Message from the Guest Editors

The new developments in spectroscopy, mineralogical and geo-chemical analysis are making it easier to gather and analyze large amounts of data, which is leading to better models of geological processes acting on planetary surfaces.

Additionally, by forecasting geological processes based on a variety of variables, such as pressure and temperature, computer models are expanding our knowledge of geological processes planetary evolution. This Special Issue seeks to collect papers that demonstrate the multidisciplinary nature of planetary geology. Therefore, we welcome papers with emphasis on subjects like: · Geological processes on planets and moons; · Geological characterization of small bodies, (asteroids, NEO, comets); · Investigations of meteorites and returned samples and their implications for parent bodies; · Understanding the extraterrestrial geological processes through the study of the terrestrial analogues; · Advances in analytical techniques and technologies for planetary geology research; · Innovative approaches such as Machine Learning to interpret data from both in situ and remote observations.

---

### Guest Editors

Dr. Paola Manzari

Space Center, Italian Spatial Agency, ASI, Locality of Terlecchia snc, 75100 Matera, MT, Italy

Dr. Maria Pedone

Italian Space Agency, ASI, Via del Politecnico snc, 00133 Rome, Italy

---

### Deadline for manuscript submissions

30 September 2025



## Geosciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.1  
CiteScore 5.1



[mdpi.com/si/222298](https://mdpi.com/si/222298)

*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)