

## Special Issue

# Novel Research in Carbon Capture and Storage

### Message from the Guest Editors

Carbon capture and storage (CCS) is an indispensable tool to mitigate climate change and limit global warming below 1.5 °C. In general, CCS is a complex process, and it refers to a series of technologies to capture carbon (usually as CO<sub>2</sub>) emitted by various processes, to then either be used or stored in an underground reservoir. Therefore, in recent years, CCS has received considerable attention from government, industry, and academia. Although extensive research has been carried out on CCS-related topics, there is still room for improvement in current techniques and methods for CCS. In this Special Issue, we would like to invite authors to submit their new research covering applied science and engineering advances in CCS. We hope that this Special Issue would include many of original research and review articles related to the new developments and advances in CCS. We believe that those published papers through this Special Issue will be of great interest to many readers from government, industry and academia, and will facilitate the development of new technologies/projects for CCS to decarbonize the global economy.

---

### Guest Editors

Dr. Martin Ma

Petroleum Recovery Research Center, New Mexico Institute of Mining and Technology, Socorro, NM 87801, USA

Dr. Xiao Tian

Visa Research, Austin, TX 78759, USA

---

### Deadline for manuscript submissions

closed (31 December 2023)



## Geosciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.1  
CiteScore 5.1



[mdpi.com/si/121299](https://mdpi.com/si/121299)

*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)