



## Gas Hydrate Exploration and Interpretation Analysis

Guest Editors:

**Dr. Alexey Portnov**

**Dr. Ewa Burwicz-Galerie**

**Dr. Sunil  
Vadakkepuliambatta**

**Dr. Srikumar Roy**

Deadline for manuscript  
submissions:

**closed (25 April 2022)**

### Message from the Guest Editors

Dear colleagues,

The current Special Issue of Geosciences focuses on recent advances in gas hydrate exploration and interpretation, emphasizing their economic, geo-hazard and environmental significance. We invite inter-disciplinary manuscript submissions on the offshore and onshore (e.g., permafrost, subglacial) gas hydrate systems using remote-sensing geophysical data, geochemical and laboratory analyses, well log data, sediment cores and modelling. We particularly encourage submissions focusing on the preferential gas hydrate formation in marine sediments. An important and often debated question here is the source of gas in both shallow and deep gas hydrate systems. Gas origin (microbial versus thermogenic) is typically inferred from the gas chromatographic and isotopic analyses, yet interpretation of these data can be equivocal, particularly in systems dominated by long-range fluid flow below the gas hydrate stability zone. We encourage regional as well as global hydrate studies with a focus on leveraging diverse datasets using novel techniques and applying these datasets for exploration and quantitative analyses of gas hydrate accumulations.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Jesus Martinez-Frias

Instituto de Geociencias, IGEO  
(CSIC-UCM), C/ Del Doctor Severo  
Ochoa 7, Edificio  
Entrepabellones 7 y 8, 28040  
Madrid, Spain

## 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 - Q1 (*General Earth and Planetary Sciences*)

## Contact Us

---

Geosciences Editorial Office  
MDPI, St. Alban-Anlage 66  
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)