

## Special Issue

# Isotope Geochemistry: Latest Developments and Applications for Geosciences

### Message from the Guest Editor

The goal of this Special Issue is to assemble papers that provide an overview of recent developments in isotope geochemistry in all aspects of geosciences. We invite papers on novel techniques of isotopic analysis, new theoretical insights and computational approaches to stable isotope fractionations, new approaches and techniques in geochronology and thermochronology, new insights and approaches to understanding solar system formation, evolution of the Earth's crust and mantle surficial processes, evolution of life, including human evolution, and human impacts on the natural world through radiogenic and stable isotope analyses. This Special Issue will welcome manuscripts on the following themes:

- Advances of isotope ratio analysis;
- Advances in the prediction of stable isotope fractionations;
- Advances in our understanding of crust and mantle evolution through radiogenic and stable isotope analysis;
- Advances in our understanding of critical zone processes, including Earth's climate and its history and human impact on it;
- Advances in solar system formation and synthesis of the elements that compose it.

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### Guest Editor

Prof. Dr. William M. White

Department of Earth and Atmospheric Sciences, Cornell University,  
Ithaca, NY, USA

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### Deadline for manuscript submissions

24 November 2025



## 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. John C. Eichelberger

Alaska Center for Energy and Power, University of Alaska Fairbanks,  
Fairbanks, AK, USA

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