

Special Issue

Isotope Geochemistry: New Techniques and Applications

Message from the Guest Editors

Geochemical—particularly isotopic—data is increasingly being used to understand the processes and circumstances by which materials are accumulated to economically viable levels. The technological advances in instrumentation over the past couple of decades have allowed the development and application of novel systems which were previously absent from our geochemical toolbox. The formation of an ore body, whether deep-seated or at the surface, involves the sourcing, transport, and deposition of materials. The role ligands in these processes has gained growing recognition, with clear evidence of isotope discrimination. Likewise, redox state often play a critical role in metal concentration: migration to higher or lower redox potentials can transform a previously mobile metal into an insoluble form, a process also accompanied by isotopic discrimination. This Special Issue invites contributions exploring these novel isotope systems—both from fundamental and applied perspectives—to highlight the insights they offer into our understanding of the creation of economically viable deposits.

Guest Editors

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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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