



Stable-Isotope Geochemistry

Guest Editors:

Prof. Dr. Luigi Dallai

Consiglio Nazionale delle
Ricerche, Rome, Italy

Prof. Dr. Paola Iacumin

Dipartimento di Scienze
Chimiche, della Vita e della,
University of Parma, 43121
Parma, Italy

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Message from the Guest Editors

Stable isotope geochemistry has been used to investigate a wealth of naturally occurring reactions, both at low and high temperature conditions. Palaeo-climatic reconstructions of marine sediments as well as continental speleothems are based on oxygen isotope fractionation between carbonate and water. Geothermal exploration, mantle petrology, and cosmochemical classification conveniently use the measurements of oxygen isotope abundances, either reflecting or deviating from mass-dependent isotope fractionation processes. In addition to oxygen isotopes, hydrogen, carbon, and nitrogen isotopes have also been used to investigate hydrological cycles, carbon sink and sources, and anthropogenic pollution. Nitrogen isotopes have been proven relevant for understanding pollution and metabolism of animals and plants. [...]

The diffusion of stable isotope analytical methods in various cultural sectors has sometimes led to an uncritical use of these very useful isotopes. Here we collect contributions from different geochemical perspectives, providing scientific advancement through an accurate use of stable isotope investigations.

Prof. Dr. Luigi Dallai

Prof. Dr. Paola Iacumin

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Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky
Bayerisches Geoinstitut,
University Bayreuth, D-95440
Bayreuth, Germany

Message from the Editor-in-Chief

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Minerals Editorial Office
MDPI, Grosspeteranlage 5
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