

Special Issue

Meteorites and Their Components by Using Isotope Systems

Message from the Guest Editors

Meteorites come from planets, asteroids, or moons beyond the Earth. In terms of present technology, humans are still unable to land on most planets in the solar system, with the exception of a few bodies such as the Moon, Mars, and asteroids. Meteorites provide us with a significant opportunity for learning about the formation process of the planets and the solar system. Isotope systems are vital tools to seek the origin and evolution of the Sun and the planets. With the development of mass spectrometry, the high-precision determination of the isotopic composition of various elements has been achieved. These techniques allow scientists to obtain more detailed information about the chronology and tracing of meteorites and the corresponding parent bodies. This Special Issue, “Meteorites and Their Components by Using Isotope Systems”, focuses on providing an up-to-date series of papers covering research and technological developments in the mineralogy, petrology, chronology, and cosmochemistry of meteorites, and deducing the origin and evolution of the solar system.

Guest Editors

Dr. Guiqin Wang

Guangzhou Institute of Geochemistry Chinese Academy of Sciences,
Guangzhou 510640, China

Dr. Yang Liu

Jet Propulsion Laboratory, California Institute of Technology, Pasadena,
CA 91109, USA

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4052 Basel, Switzerland
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About the Journal

Message from the Editor-in-Chief

Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

Bayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth,
Germany

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2024).