Special Issue

Frontier of the K–Ar ($^{40}Ar/^{39}Ar$) Geochronology

Message from the Guest Editors

Radiogenic 40Ar was discovered from natural minerals in 1948, and the K–Ar dating method has been developed since the 1950s. Subsequently, the 40Ar/39Ar dating method was established in the 1960s, and further developments in the application of the 40Ar/39Ar led to improvement of the in situ dating technique. This Special Issue invites submissions from K–Ar (40Ar/39Ar) geochronology and geochemistry within a multidisciplinary scope, including field observations, petrology, mineralogy, structural geology, and numerical modeling. Studies that help to better understand argon behavior in nature are particularly encouraged.

Guest Editors

Dr. Tetsumaru Itaya

Institute of GeoHistory, Japan Geochronology Network (NPO), Akaiwa 701-2503, Japan

Prof. Dr. Tatsuki Tsujimori

Department of Earth Science, Tohoku University, Aoba Ku, Sendai, Miyagi 9808578, Japan

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
minerals@mdpi.com

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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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