

Special Issue

Geological Survey Materials: Current Status and Future Perspectives

Message from the Guest Editor

Geological reference materials are crucial in analytical chemistry for calibration, quality control, and interlaboratory comparisons of concentration and isotopic data. Accurate analytical results depend on using reference materials with compositions similar to unknown samples. To achieve this, thousands of reference materials from various rocks, minerals, and glasses have been produced by international organizations. This Special Issue will explore recent advancements, challenges, and future directions in the preparation, certification, and application of geological reference materials. We invite submissions of original research and review articles on the following topics:

- Advances in standardization for calibrating analytical instruments
- Analytical techniques for geological reference materials
- Development of new geological reference materials
- Compilation of certified values through quality assurance and traceability
- New analytical data of reference materials
- Studies on homogeneity and stability of reference materials

Guest Editor

Dr. Naoki Shirai

Faculty of Science, Kanagawa University, 3-27-1 Rokkakubashi,
Kanagawa-ku, Yokohama 221-8686, Japan

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

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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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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).