Special Issue

Mineral Solubilities: Measurement and Modelling

Message from the Guest Editor

Mineral solubilities are of high relevance to areas as diverse as geochemistry, mining engineering, hydrometallurgy, nuclear waste disposal, materials synthesis, environmental and biological sciences, to name just a few. Accurate solubility data are also required to derive thermodynamic properties of minerals. For this Special Issue, high-quality contributions are invited that cover all aspects of solubility measurements of minerals (and biominerals) in aqueous systems, including innovative experimental techniques and apparatus for measurements over wide ranges of conditions. Both new and traditional approaches to the modelling of mineral solubilities are welcome, ideally (but not necessarily) in conjunction with an experimental study. Papers dealing with the measurement and modelling of solid-solution solubilities are especially welcome. Studies applying new data and models for mineral solubilities to natural, industrial or biological processes are also encouraged.

Guest Editor

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Deadline for manuscript submissions

closed (27 September 2019)

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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

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Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), GEOBASE, GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

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