Special Issue

Applications of Microscopy Image Processing and Machine Learning in Thin Sections

Message from the Guest Editors

It is surprising how a thin slice of a rock or mineral sample prepared in a laboratory, known as thin section or petrographic thin section, can be used with different microscopic techniques such as polarizing petrography, electron microscopy, electron microprobe, cathodoluminescence, Raman spectroscopy, micro-X-ray fluorescence, etc. This versatility of analytical techniques makes thin sections applicable and useful for a variety of interests:

- Sedimentary, igneous, and metamorphic petrography;
- Oil and gas exploration and production reservoir characterization;
- Digital rock physics;
- Cultural materials and conservation research;
- Mineral deposits exploration;
- Concrete analysis;
- And many others.

Guest Editors

Dr. Miguel Ángel Caja

Dr. Ardiansyah Koeshidayatullah

Prof. Dr. Chandra L. Reedy

Deadline for manuscript submissions

closed (30 September 2023)

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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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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 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).

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