





an Open Access Journal by MDPI

Computer-Assisted Microscopy for Characterization of Ores and Rocks

Guest Editors:

Dr. Otávio da Fonseca Martins Gomes

Prof. Dr. Sidnei Paciornik

Prof. Dr. Mehdi Ostadhassan

Dr. Eugene Donskoi

Deadline for manuscript submissions:

closed (19 October 2022)

Message from the Guest Editors

Computer-assisted microscopy involves microscope control and automation, as well as digital image acquisition, processing, and analysis. Besides the automation of routine tasks in the microscopes, it extends the capabilities of traditional microscopy techniques. There are important characteristics of ores and rocks, such as, for instance, pore structure, texture, and mineral liberation, that can only be quantitatively evaluated using computer-assisted microscopy methods. This Special Issue will focus on novel developments and case studies of computer-assisted microscopy applied characterization of ores or rocks, which may include, but are not limited to, the following topics:

automated mineralogy texture and liberation analysis digital microscopy correlative microscopy multidimensional microscopy x-ray micro-tomography image analysis machine learning/deep learning











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leonid DubrovinskyBayerisches Geoinstitut, University Bayreuth, D-95440 Bayreuth, Germany

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), GeoRef,

CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Geochemistry and Geophysics*) / CiteScore - Q2 (*Geology*)

Contact Us