Special Issue

Advances in Electrical Resistivity and Electromagnetic Imaging Methods of Mineral Deposits and Mining Wastes

Message from the Guest Editors

Electrical resistivity imaging (ERI) has experienced significant advances in recent decades, concerning both data acquisition and data processing. Such improvements now allow us to exploit the full capabilities of direct current geoelectric methods, which could have been undervalued in the past. Multielectrode and multichannel systems, nonconventional surveying arrays, wireless systems, and efficient data inversion routines and software are already used extensively. ERI surveying is now capable of achieving higher-resolution and deeper images of the subsurface and constructing multidimensional 2D, 3D and 4D geological models at reasonable costs. That makes ERI very attractive for dealing with the actual and future challenges of mineral exploration, mine-water hydrology, and environmental characterization and monitoring of mining wastes and acid mine drainages. This Special Issue invites papers focusing on recent advances of ERI for the mineral industry, including novelties in field acquisition, data processing, and data interpretation. Case studies that can be particularly interesting are also welcome.

Guest Editors

Prof. Dr. Mario Zarroca

Dr. Roberto Rodríguez

Dr. Isaac Corral

Deadline for manuscript submissions

closed (25 November 2021)

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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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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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