

Special Issue

Environmental Mineralogy

Message from the Guest Editor

“Environmental mineralogy” has developed over the past decade in response to the recognition that minerals are unambiguously linked to not only the local and global ecosystem, but also geo-engineering technology, including the disposal of hazardous and radioactive waste, treatment of acid mine drainage and waste water, capture and storage of carbon dioxide, construction using cement, slag, and fly ash, and the health effect of minerals. These cases cover the results of cutting-edge scientific research in many areas: (1) kinetics of dissolution, alteration, and formation of minerals; (2) pollutant uptake by and release from minerals; (3) geochemical buffering of acid–base and redox reactions by minerals; and (4) mineral–microbe interactions and so on. In this Special Issue, we seek to assemble a balanced combination of field, laboratory, and computational studies that represent recent advances and the future challenges in this field.

Guest Editor

Prof. Dr. Tsutomu Sato

Laboratory of Eco-materials and Resources, Faculty of Engineering
Hokkaido University, Kita 13 Nishi 8, Kita-Ku, Sapporo 060-8628, 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).