



Clay Minerals as Indicators of Provenance and Paleoclimate in Sedimentary Environments

Guest Editors:

Dr. Lucy Gomes Sant'Anna

Environmental Management
Group, School of Arts, Sciences
and Humanities, University of
São Paulo, São Paulo 03828-000,
Brazil

Prof. Dr. Luigi Jovane

Instituto Oceanográfico,
Universidade de São Paulo,
Praça do Oceanográfico, 191,
São Paulo, SP 05508-120, Brazil

Dr. Junhua Adam Guo

Department of Geological
Sciences, California State
University Bakersfield, 9001
Stockdale Highway, Bakersfield,
CA 93311, USA

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Message from the Guest Editors

The interactions between the clay minerals and the environment are recorded by the mineralogical, textural, geochemical, paleontological, paleomagnetic, and isotopic properties, whose characterization allows the recognition of their chemical or physical weathering origin, widely controlled by the hydrosphere, atmosphere, and biosphere, sedimentary provenance, transport, and depositional processes. The integration of various methodologies, including the investigation of relationships among topography, erosion, tectonic, and reconstructions of paleogeographic and paleoclimatic contexts, represents an innovative approach in order to contribute, at local, regional, or global scales, to the understanding of the Earth's surface processes and internal dynamics.

For this Special Issue, we invite you to publish your data on clay minerals that are indicators of provenance and paleoclimate in sedimentary deposits through geological times, aiming to improve the body of information on the history and surface dynamics of the planet.





Editor-in-Chief

Prof. Dr. Leonid Dubrovinsky

Bayerisches 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.

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Minerals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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