Special Issue

Editorial Board Members' Collection Series: "Chemical Reactions of Clay Minerals and Their Utilization"

Message from the Guest Editors

Over three decades ago, Polish academician and professor Leszek Stoch delivered a conference talk—which shares its title with this Special Issue—in which he summarized the possible industrial uses of clays that exploit the various chemical processes they enable. Now, it seems the right time to look back and realize how much progress has been made, and how much is yet to come, in the use of clay minerals and their reactions in a variety of applications in many fields, from the chemical industry to engineering, and from medicine to biology. Clays are extraordinary in that their complex composition and layered structure, with weak bonds between minerals and strong bonds within them, grant them a great reactivity, which is further enhanced by their low crystallinity and large specific surface area. In this Special Issue, we welcome contributions from all fields of science and technology, including reviews and original works, demonstrating the key role of reactions of clay minerals in practical applications, and delineating both mature and exciting new directions of research and development.

Guest Editors

Dr. Gianvito Scaringi

Prof. Dr. Hongfei Cheng

Prof. Dr. Jinwook Kim

Deadline for manuscript submissions

closed (25 August 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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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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