Special Issue

Chemistry and Mineralogy of Industrial Residues

Message from the Guest Editor

Materials are at the basis of any industry, and their lifecycle plays a significant role in economic assessments. Within a material's cycle, industrial residues are unavoidable and most often undesired byproducts. Nevertheless, efforts are ongoing to identify ways we can exploit these byproducts by reusing and recycling them. However, in order to achieve this, we must first achieve full knowledge of the chemistry and reactivity of industrial waste. The process of acquiring this necessary knowledge begins with the characterization of their constituents, which in most cases do have a natural mineralogical counterpart. In this Special Issue, we aim to collect contributions, especially reviews of the present state of the art in the chemical composition and reactions of industrial residues, spanning from the characterization and analytic techniques of investigation to reuse and recycling and toxicology matters. The main focus is applied sciences, but basic investigations of the chemical, structural, and thermodynamic behavior of minerals in industrial residues are welcomed.

Guest Editor

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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.

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Journal Rank:

JCR - Q2 (Mining and Mineral Processing) / CiteScore - Q1 (Geology)

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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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