Special Issue

Mining Waste as Raw Materials for Mullite-Based Ceramics

Message from the Guest Editors

Mullite ($3Al_2O_3{\cdot}2SiO_2$) is an aluminosilicate characterized by excellent physical properties, such as good resistance to thermal shock, low thermal conductivity, good resistance to wear and deformation, working temperature over 1200 °C, etc., which make it an important ceramic material. In this way, ceramic materials based on mullite find application in different technological fields as refractory material matrix in composite materials for high temperature applications, substrate in multilayer packaging, protective coatings, components of turbine engines, windows transparent to infrared radiation, etc. For this Special Issue, researchers can report findings on the use of sterile materials generated in mining activities for the manufacture of ceramic materials containing mullite as a main crystalline phase.

Guest Editors

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Deadline for manuscript submissions

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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 17.7 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

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