



Mining Waste as Raw Materials for Mullite-Based Ceramics

Guest Editors:

Dr. Maximina Romero

MEDES Group, Eduardo Torroja
Institute for Construction
Sciences, IETcc-CSIC, C/ Serrano
Galvache 4, 28033 Madrid, Spain

Dr. Aurora López-Delgado

National Center for Metallurgical
Research (CENIM), Spanish
National Research Council (CSIC),
28040 Madrid, Spain

Dr. Isabel Padilla

National Center for Metallurgical
Research (CENIM); Spanish
National Research Council (CSIC),
28040 Madrid, Spain

Deadline for manuscript
submissions:

closed (30 June 2021)

Message from the Guest Editors

Mullite ($3\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2$) 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.





an Open Access Journal by MDPI

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), GEOBASE, GeoRef, CaPlus / SciFinder, Inspec, Astrophysics Data System, AGRIS, and other databases.

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

Contact Us

Minerals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/minerals
minerals@mdpi.com
[X@Minerals_MDPI/](https://twitter.com/Minerals_MDPI/)