Special Issue

Recycling of Industrial Waste for the Development of Sustainable Materials

Message from the Guest Editors

The production and use of industrial materials, such as cement and ceramic, significantly impact the environment negatively. It is crucial to reassess waste value, transitioning from linear to circular production processes, while identifying sustainable solutions and introducing innovative, environmentally friendly products. This Special Issue aims to advance our understanding of waste recycling, mainly of ceramic nature, through the improvement of sustainable production processes or the development of new sustainable materials for a greener future. We invite researchers, scientists, and specialists from various disciplines to contribute on topics including the following:

- Recycling methodologies;
- Industrial waste characterization, disposal, and valorization;
- Ceramic waste characterization, disposal, and valorization;
- Construction and demolition waste management;
- Sustainable manufacturing processes;
- Design of innovative sustainable materials;
- Alkali-activated materials and geopolymers;
- Innovative ceramics;
- Building and restoration materials.

Guest Editors

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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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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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