Special Issue

Clay Minerals and Waste Fly Ash Ceramics

Message from the Guest Editor

Clays are environmentally-friendly raw materials available in large quantities. Clay minerals, as the main components of clays, have specific structural properties and are therefore widely used in laboratory and industry. A large amount of fly ash waste comes from thermal power plants and coal combustion. The utilization of this waste material is a major focus in research on the development of environmentally-friendly ceramic materials. The aim from the viewpoint of the final properties of the ceramic product is to find the optimal maximum amount of fly ash in the ceramic mixture. A desirable task is to study the effect of the addition of fly ash and clay minerals and other possible additives on calcination temperature, while saving conditions without damaging the ceramic body. This Special Issue will include quality publications on the application of clay-mineral-supported waste fly ash to ceramic materials, with particular attention to processes developed using advanced clay-based ceramic materials.

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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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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