Special Issue

Applications of Clay Minerals and Engineered Materials in Water and Wastewater Treatment

Message from the Guest Editors

The global issue of wastewater production and groundwater pollution poses a crucial environmental and public health challenge. Wastewater production has increased and often overwhelms the capacity of existing treatment infrastructure due to excessive urban, industrial, and agricultural activities. Uncleaned or inadequately treated wastewater may contain contaminants, including heavy metals, pathogens, increased concentrations of nutrients, and hazardous chemicals, which may leach into the aquifer, the primary source of drinking water for more than two billion people. Moreover, as freshwater resources diminish due to climate change and over-extraction, the urgent need for sustainable wastewater management and pollution prevention strategies is highlighted. The application or contribution of clay minerals and engineered materials is of crucial importance in the research field of water and wastewater treatment. Their natural abundances and/or properties, such as high specific surface area, porosity, adsorption capacity, ion exchange capacity, and non-toxicity, can result in environmentally friendly and sustainable degradation of contaminants in water bodie

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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