Special Issue

Zeolite: From a Boiling Stone to the Applicable Minerals in Various Industrial Processes

Message from the Guest Editors

Zeolites are well-known aluminosilicate minerals with a unique crystal structure and physicochemical properties. The 3D crystal lattice of zeolites is thermally stable and allows the accommodation of various chemical species, such as ions, atoms, or nano-sized particles of various compounds, not only on the surface but also inside the cavities and channels of zeolite structure. Zeolites are now recognized as useful for various industrial processes such as adsorption, ion exchange, catalysis, or separation. Furthermore, they are abundant, cheap, and environmentally friendly, which is the key to their applicability. This Special Issue dedicated to zeolites provides an excellent opportunity to explore the latest scientific research focusing on zeolites. Scientific contributions and review studies from the following areas are welcome: zeolite formation and occurrence, zeolite structure research, zeolite surface functionalization, application in adsorption and catalysis, environmental protection, agriculture, and pharmacy.

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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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