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Physicochemical Properties and Purification of Quartz Minerals

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Message from the Guest Editors

High-purity quartz is closely related to the new generation of information technology, new material industry, new energy, and other fields in strategic emerging industries, and it is an important supporting material in strategic emerging industries. It is of great significance to carry out research on mineral exploration technology and methods of obtaining high-purity quartz raw materials to realize the breakthrough of mineral exploration and submission of resource reserves for ensuring the security of strategic resources for the development of high-purity quartz. Aiming to obtain different types of quartz resources in nature, we aim for this Special Issue to collate experimental studies on the mineralogy, petrology, and geochemistry of high-purity quartz, quartz minerals, and host rocks. Based on detailed studies of the different occurrences of quartz and geological bodies, the purified properties of quartz in different occurrences of geological bodies will be evaluated through purification experiments of quartz. We hope that this Special Issue lays a theoretical and experimental foundation for finding and developing high-purity quartz.

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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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