Special Issue

Thermal History Modeling of Low-Temperature Thermochronological Data

Message from the Guest Editors

The thermal history modeling of low-temperature thermochronological data has been more and more widely applied in geological research such as cooling history, exhumation history, and landscape evolution. However, there are still many problems in thermal history modeling, including theory, methods, and application. Therefore, analysis of the principle of thermal history modeling and acknowledgement of the traps in thermal history modeling processes are urgently needed. This Special Issue plans to give an overview of the most recent advances in the field of thermal history modeling and their applications in diverse areas. This Special Issue aims to provide selected contributions on advances in the theory, methods, and applications with regard to the thermal history modeling of low-temperature thermochronological data. Potential topics include, but are not limited to: Algorithms for thermal history modeling; introduction of thermal history modeling programs; traps in thermal history modeling processes; experience in modeling thermal history; application of thermal history modeling; future perspectives for thermal history modeling.

Guest Editors

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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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