

Elements

An International Magazine of Mineralogy, Geochemistry, and Petrology



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Noble Gas Thermochronology

Guest Editors: **Marissa M. Tremblay**, **Emily H.G. Cooperdock**, and **Peter K. Zeitler**



Noble Gases Deliver Cool Dates from Hot Rocks

Cécile Gautheron and Peter K. Zeitler



Earth's Dynamic Past Revealed by Detrital Thermochronometry

Daniel F. Stockli and Yan M. R. Najman



Iron Oxide (U-Th)/He Thermochronology: New Perspectives on Faults, Fluids, and Heat

Emily H.G. Cooperdock and Alexis K. Ault



Vestiges of the Ancient: Deep-Time Noble Gas Thermochronology

Kalin T. McDannell and Rebecca M. Flowers



Noble Gas Thermochronology of Extraterrestrial Materials

Marissa M. Tremblay and William S. Cassata



Lazed and Diffused: Untangling Noble Gas Thermochronometry Data for Exhumation Rates

Matthew Fox and David L. Shuster

Mountains of the southern Tibetan plateau, northeast of the city Lhasa. Noble gas thermochronology on bedrock samples from different elevations in these mountains revealed rapid erosion rates during the middle Miocene. PHOTO CREDIT: MARISSA TREMBLAY.

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