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LETTER

Trace element thermometry of garnet-clinopyroxene pairs, revisited

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ABSTRACT

Two errors are identified in the implementation of a recently published thermometer based on the partitioning of trace elements between garnet and clinopyroxene. The errors compromise comparisons with other thermometers and experimental results. Using the same methodology, a new, simplified procedure is presented to rectify the errors and test the consequences. In general, the corrected thermometer gives temperatures that are 30–50 °C higher than uncorrected values.

Keywords: Geothermometer, garnet, clinopyroxene, REE