#0108

Differences in the $\Delta^{17}O$ between Earth, Moon and enstatite chondrites.

Herwartz*, D., Friedrichs, B., Pack, A.
*Geowissenschaftliches Zentrum, Universität Göttingen, Goldschmidtstraße 1, 37077 Göttingen, apack@uni-goettingen.de.

We have developed a new analytical protocol for high precision analyses of $\Delta^{17}O$ in rocks and minerals. The new technique allows identification of ppm level variations in $\Delta^{17}O$. New data on terrestrial and lunar rocks and enstatite chondrites reveal marked differences in $\Delta^{17}O$ between these bodies with $\Delta^{17}O(Earth) < \Delta^{17}O(Moon) < \Delta^{17}O(EC)$.
We suggest that the observed difference in $\Delta^{17}O$ between Earth and Moon are due to different proportions of Theia. Implications will be presented.

Cite abstract as:
Herwartz, D., Friedrichs, B., Pack, A. (2013) Differences in D17O between Earth, Moon and enstatite chondrites. Paneth Kolloquium, Nördlingen (Germany), abstract URL: http://www.paneth.eu/PanethKolloquium/2013/0108.pdf (abstract #0108).