

Erratum to K.L. Thomas-Keprta, S.J. Clemett, D.S. McKay, E.K. Gibson, S.J. Wentworth (2009) "Origins of magnetite nanocrystals in Martian meteorite ALH84001," *Geochimica et Cosmochimica Acta* **73**, 6631-6677.

In the print version of this manuscript, all figures appeared in black-and-white although it was anticipated many would be in color. Figures 1A-C, 1D-I (panel), 2A-D, 3B-I, 4, 5A, 5C-D, 6C-D, and 7E-F are reprinted here in color.

On page 6639, the formula for dolomite should be  $\text{CaMg}(\text{CO}_3)_2$  and for ankerite  $\text{Ca}(\text{Fe,Mg})(\text{CO}_3)_2$ .

On page 6639 Table 2 Analyses were made using a Cameca SX100 Universal Electron Probe Micro Analyser. In addition to the listed elements C, O, Si and S were also measured and all eight elements for data reduction using the ' $\Phi$ - $\rho$ -z' correction algorithm (Merlet 1992; 1994).

Merlet, C. (1992) Quantitative electron probe microanalysis: New accurate  $\Phi(\rho z)$  description. *Microchimica Acta* [Supplement] 12, 107-115.

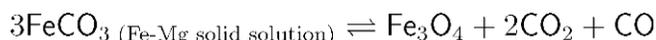
Merlet, C. (1994). An accurate computer correction program for quantitative electron-probe microanalyses. *Microchimica Acta* 114, 363-376.

On page 6640 the last sentence should have read "*The magnetites are predominately stoichiometrically pure  $\text{Fe}_3\text{O}_4$  (Fig. 5B), although some do contain Cr (see Fig. 5C) and/or Al as noted previously (Thomas-Keprta et al., 2000a).*"

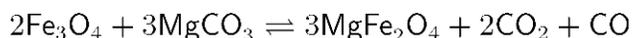
On page 6653 Figure 5C the interpretation of the Cr bearing grain being magnetite is based on the measured element abundances and spatial location of the grain, which is physically located within the inner magnetite-rich rim. Based on full-spectrum quantitative EDS mapping the Cr-enriched grain has an element abundance of Fe ~70.1 wt.%, Cr ~ 2.3 wt.%, and O ~27.6 wt.%, corresponding to stoichiometry of  $(\text{Fe}_{2.9}\text{Cr}_{0.1})\text{O}_4$  (i.e., ~ 3.3%  $\text{Cr}_2\text{O}_3$ ).

On pages 6656 (Table 4), 6657 (Figure 6B), 6661 (Figure 6F), and 6662 (Figure 6G) the d values are a factor of ten times too large.

On page 6663 Equ. 5 should read...



On page 6666 Equ. 7 should read...



On page 6669 Equ. 20 should read...

