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Dear Sir/Madam,

The following hightlights are to be used for the paper entitled "The magnetic structure and recording fidelity of sub-micron greigite ( $Fe_3S_4$ )" submitted to the journal *Earth and Planetary Science Letters* with Dr. Lesleis Nagy, Dr. Adrian R. Muxworthy, Prof. Wyn Williams and Dr. Karl Fabian:

- 1. Finite-element micromagnetic model of greigite
- 2. SD-PSD threshold ~54 nm
- 3. Continuous PSD-MD transition above ~200 nm
- 4. SD greigite found to be superparamagnetic
- 5. Palaeomagnetic recorder above ~70 nm

Yours sincerely,

Miguel A. Valdez Grijalva

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