

Appendix

Figure A1. Two possible spin configurations in fayalite, modified from Chatterjee and Saha-Dasgupta (2010).

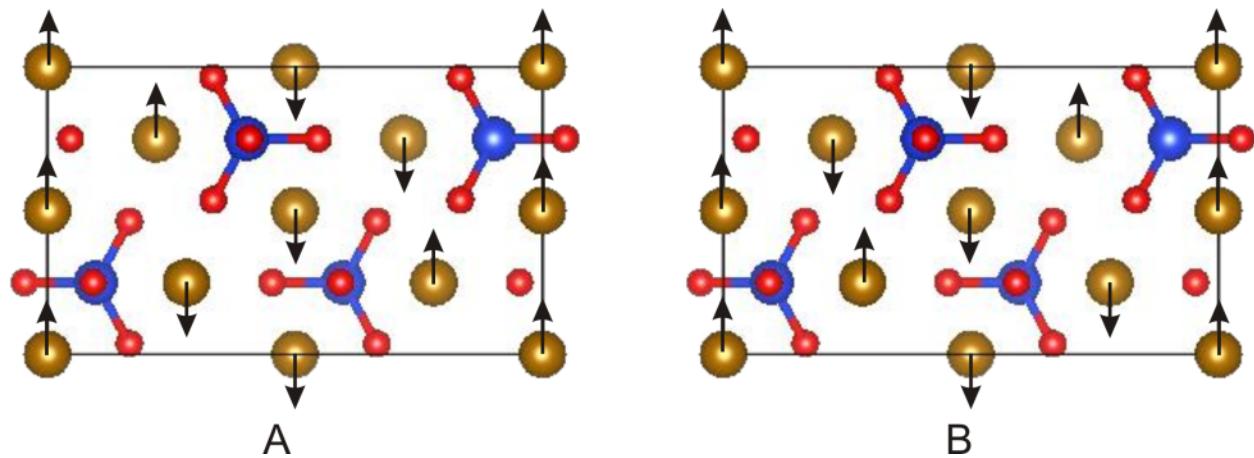


Table A1. Total energy of laihunite-1M, laihunite-2M, and laihunite-3Or in the two possible antiferromagnetic configurations together with fayalite.

Structure	Configuration A (eV)	Configuration B (eV)
Laihunite-1M	-189.79	-189.86
Laihunite-2M	-395.08	-395.21
Laihunite-3Or	-585.00	-585.09
Fayalite	-205.11	-205.17

Figure A2. Simulated electron diffraction patterns of laihunite-2M (A, C) and laihunite-3Or (B, D). A and B are [001]-zone-axis patterns. C and D are [110]-zone-axis patterns.

