Supporting Information

Size and morphology effects on the high pressure behaviors of Mn$_3$O$_4$ nanorods

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Figure S1. (a) XRD pattern of Mn$_3$O$_4$ nanorods before compression.
**Figure S2.** XRD data of Mn$_3$O$_4$ nanorods was released to ambient pressure were refined. Red solid curve is the result of the Rietveld refinement with marokite-like phase (Pbcm) model.

**Figure S3.** Raman spectra of Mn$_3$O$_4$ nanorods during decompression.