

Supporting Information

Synthesis and photoluminescence of Cd-doped α -MnS nanowires

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Figure S1: Temperature-dependent ZFC and FC magnetic susceptibility (χ) of MnS powders (Aldrich, 99.9 %), measured with $H=5$ kOe. It shows $T_N=154$ K.

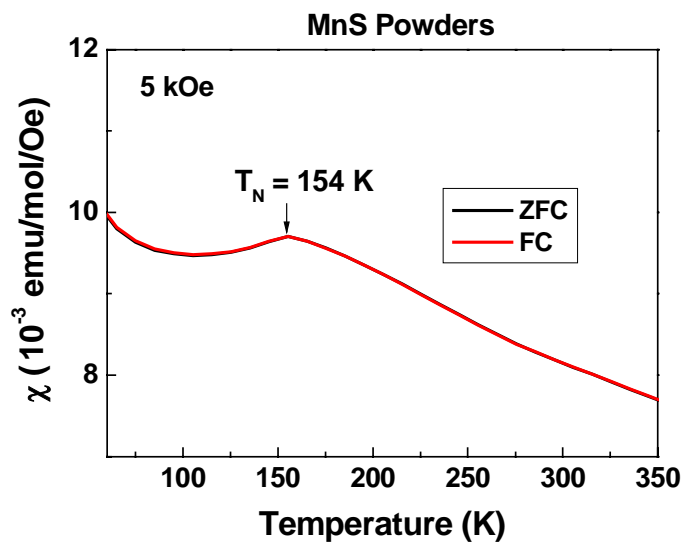


Figure S2: Temperature-dependent XRD (200) and (220) peaks of MnS powders and MnS NWs. The MnS powders show a discontinuous change of the peak position near 150 K, indicating a phase transition (probably rhombohedral or trigonal distortion) accompanying to the antiferromagnetic ordering ($T_N=154$ K). In contrast, there is no obvious transition of the peak position for the MnS NWs.

