

## Supporting information

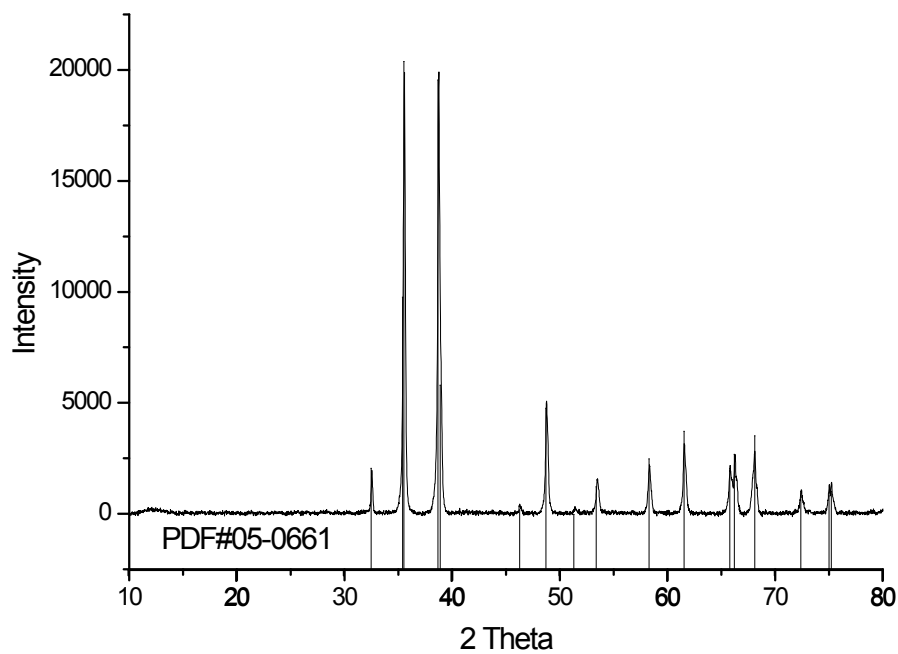


Fig. S11 XRD pattern of CuO

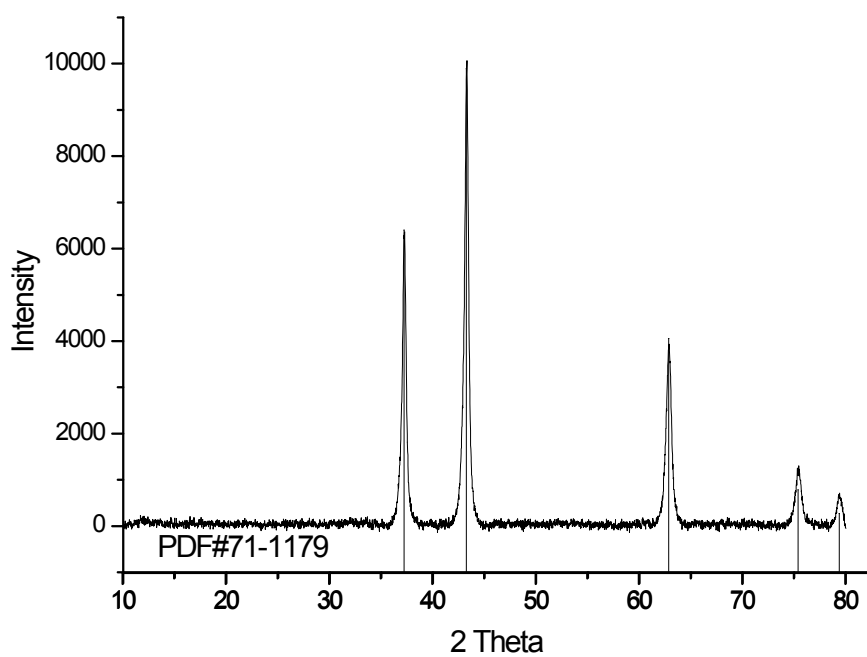


Fig. S12 XRD pattern of NiO

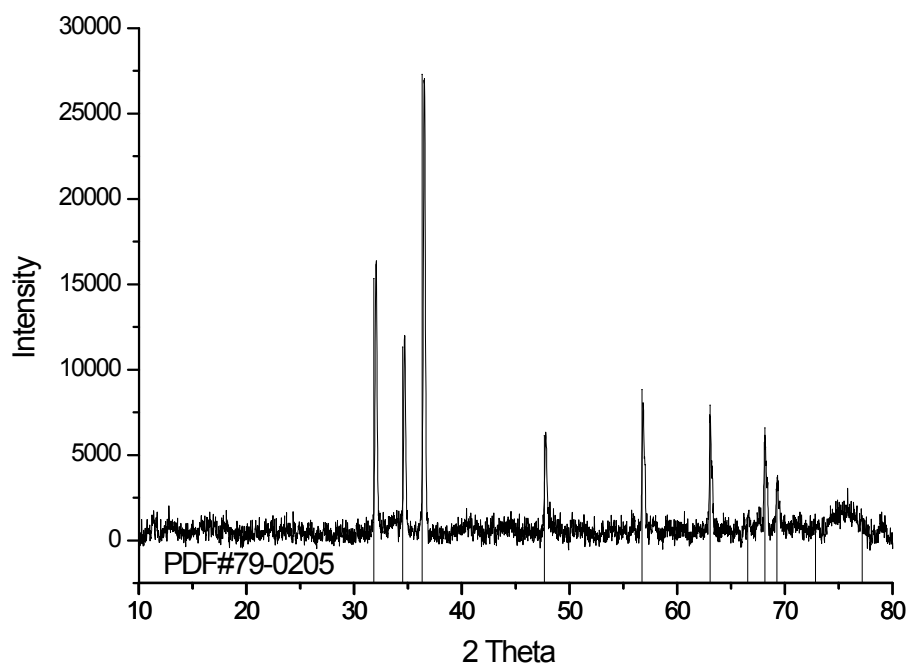


Fig. S13 XRD pattern of ZnO

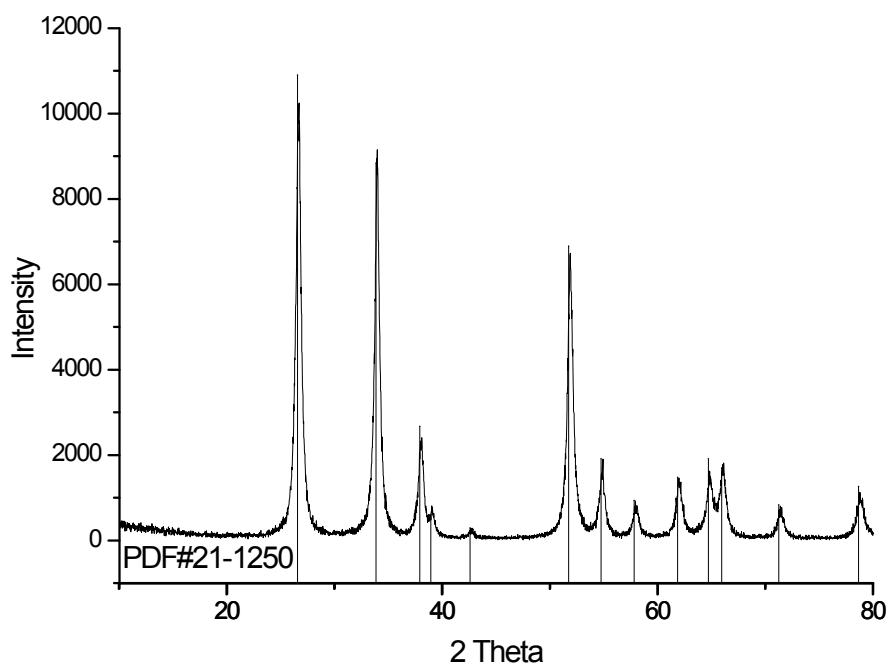


Fig. S14 XRD pattern of SnO<sub>2</sub>

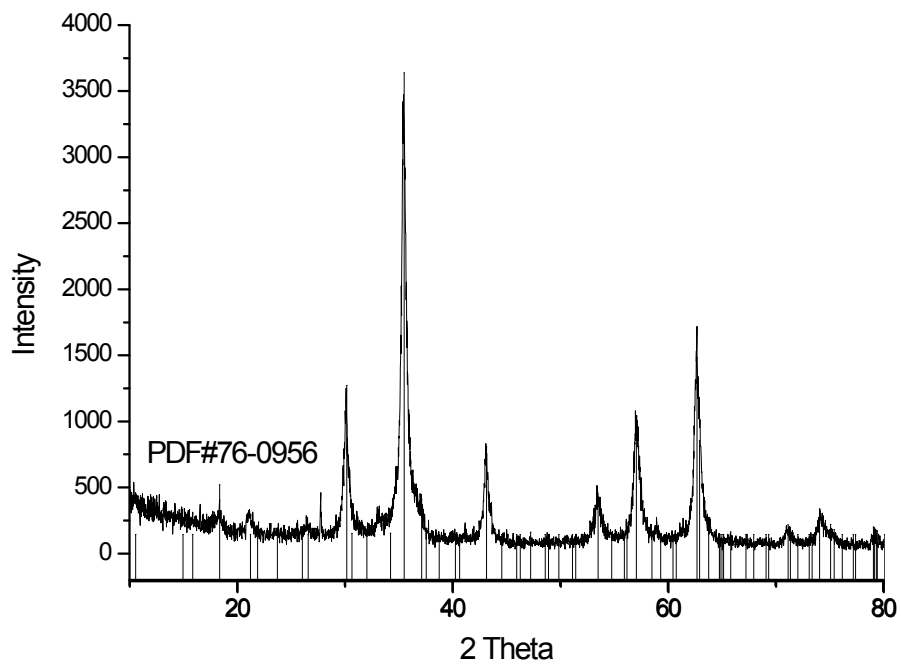


Fig. S15 XRD pattern of Fe<sub>3</sub>O<sub>4</sub>

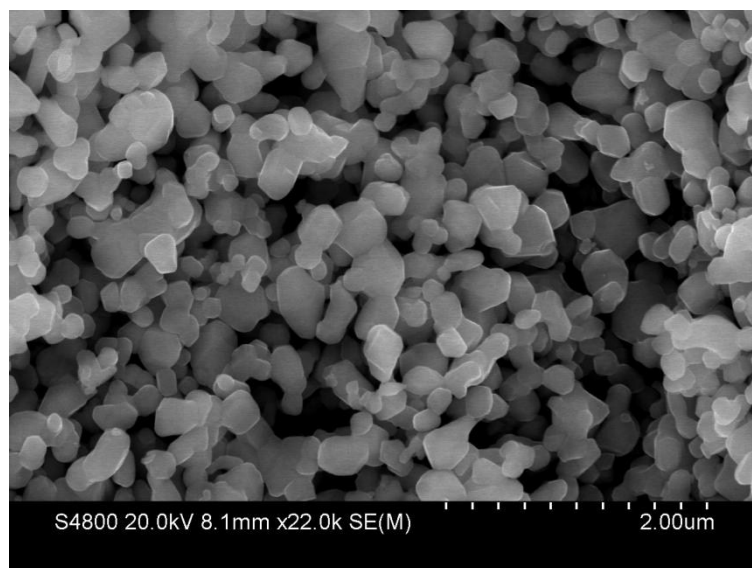


Fig. S16 SEM image of CuO

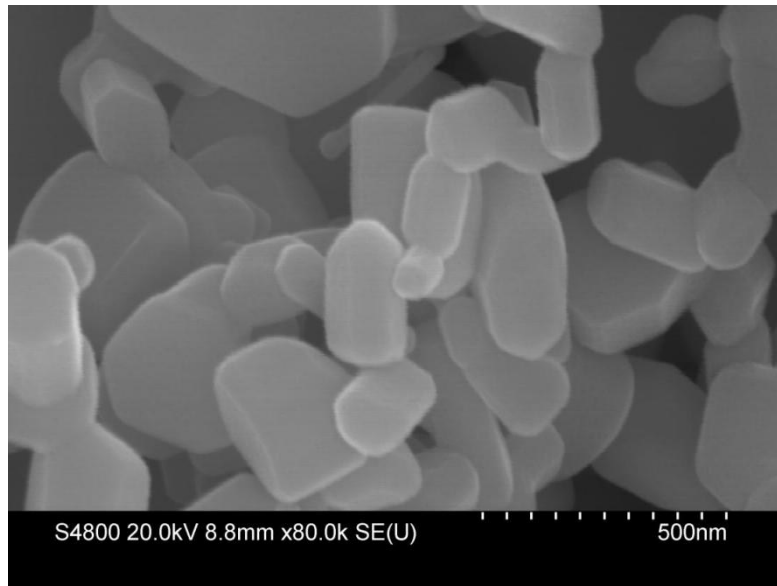


Fig. SI7 SEM image of ZnO

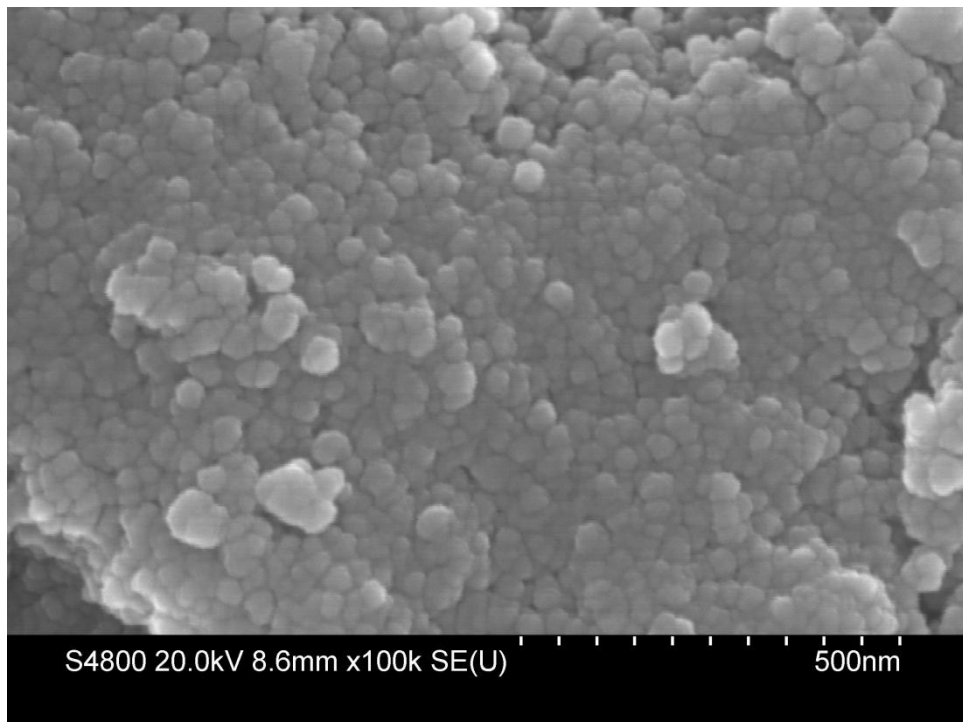


Fig. SI8 SEM image of SnO<sub>2</sub>

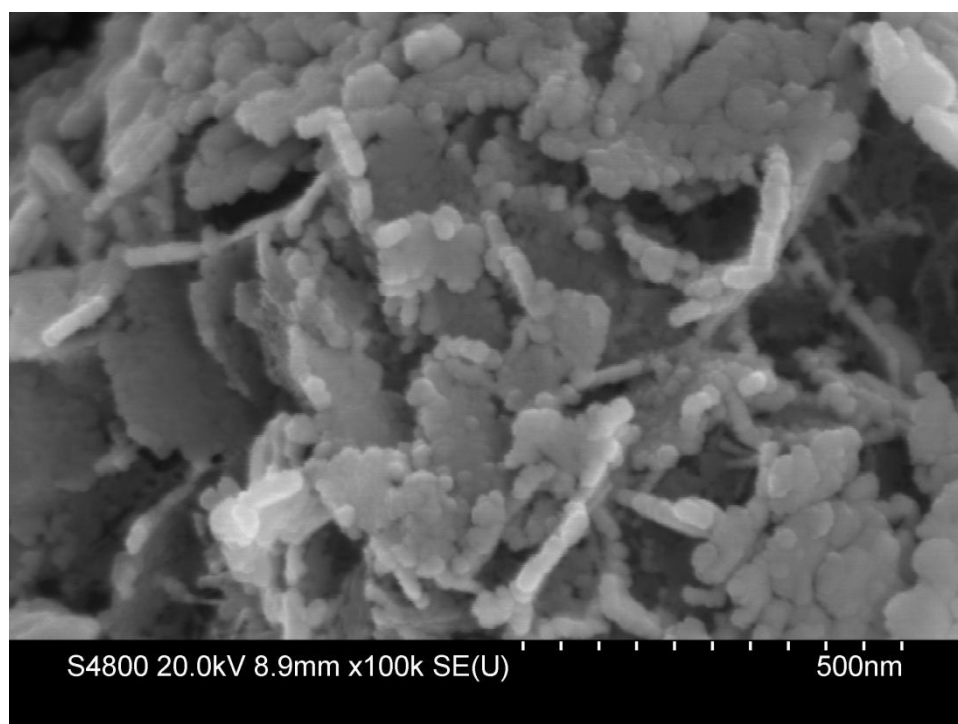


Fig. SI9 SEM image of NiO

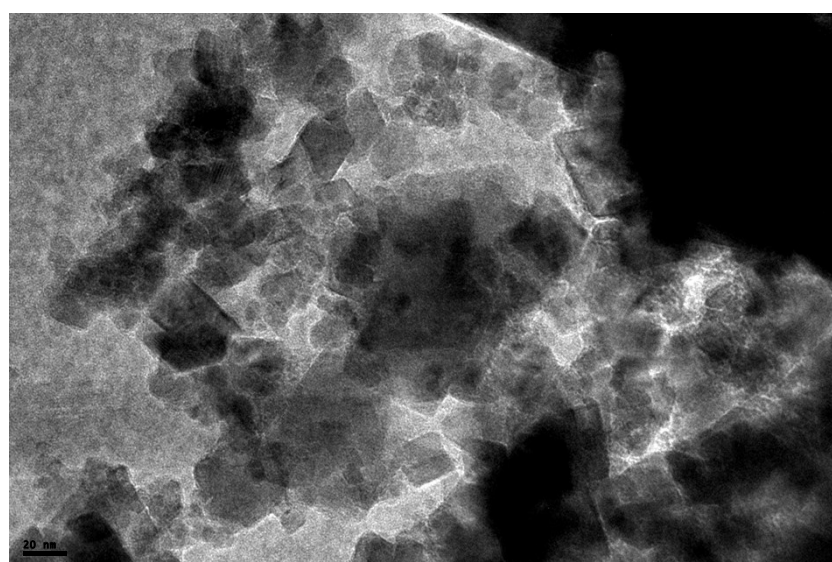


Fig. SI10 TEM image of Fe<sub>3</sub>O<sub>4</sub>