Supporting information

The XRD patterns of the sample after calcination at different temperatures are illustrated in Fig. S1. We found that at 600°C, the initial framework structure collapsed in MOF-5 derived composites, the reflections locating at $31.7^{\circ}(100)$, $34.4^{\circ}(002)$, $36.3^{\circ}(101)$, $47.4^{\circ}(102)$, $56.6^{\circ}(110)$, $62.8^{\circ}(103)$, $67.9^{\circ}(112)$ and $69.1^{\circ}(201)$ were indexed to the characteristic peaks of wurtzite ZnO structure (JCPDS No. 36-1451).

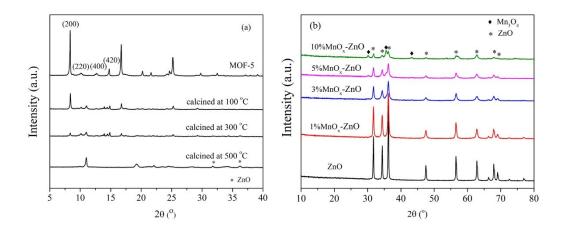


Fig. S1. XRD pattern of (a) MOF-5 and MOF-5 calcined at different temperatures, and (b) ZnO and MnO_x -

ZnO derived from the (Mn)MOF-5 calcined at 600 °C.