

## **Supporting Information**

### **Manganese oxide supported gold catalyst derived from metal organic frameworks for trace $\text{PCl}_3$ oxidation in organic system**

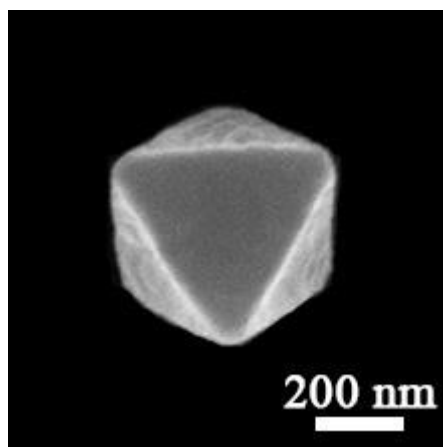


Fig. S1 SEM images of MIL-100 (Mn).

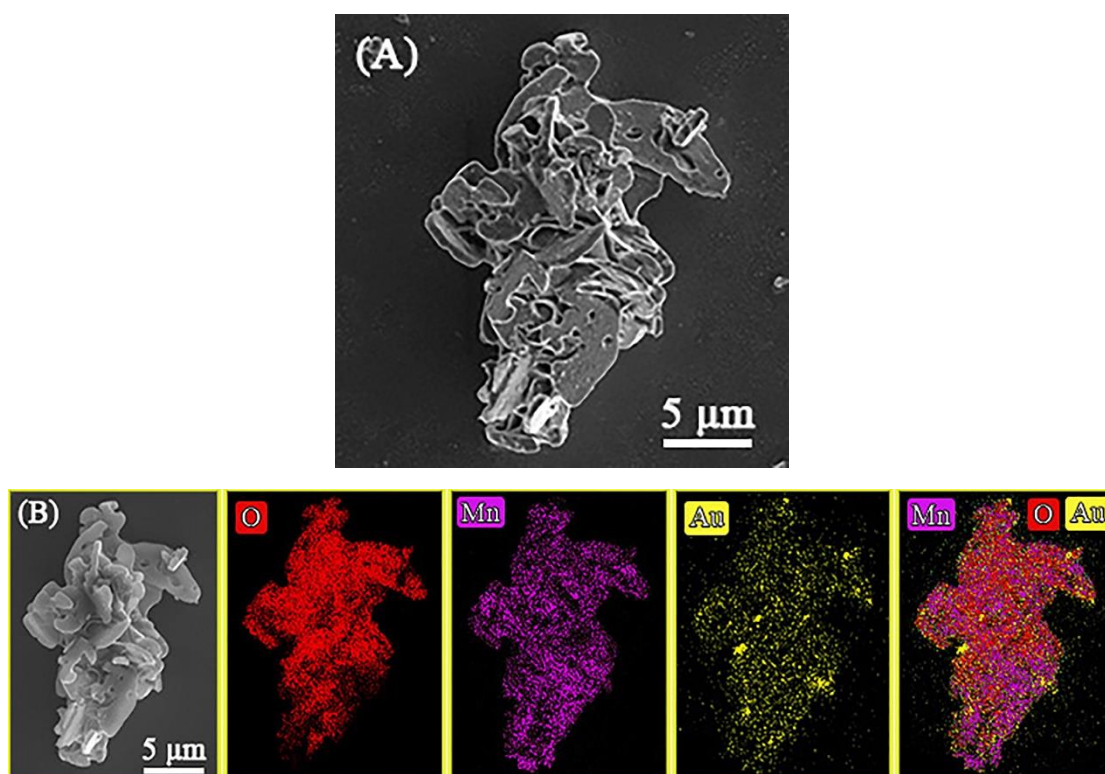


Fig. S2 (A) SEM images, (B) element distribution of O, Mn and Au species over SEM-EDX of Au-Mn<sub>3</sub>O<sub>4</sub>.