**Supplementation materials**

**Formation of Co doped α-MnO2 nanowires for catalytic degradation of methylene blue**

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(a)

Figure S1(a) study the light effect on catalytic reaction and (b) The diffused reflectance spectra of the as-prepared CoxMn1-xO2 nanostructures.

Figures S2









Fig.S2 MS spectra of degradation products of MB by Co-MnO2 nanowires