

## **The Supporting Information**

*for*

Selective Conversion of Hydroxymethylfurfural to  
Diformylfuran using Copper Hydroxide Nitrate  
with Various Nano-Structures: A Comparative  
Study

Table S1. Concentrations of Cu and nitrate ( $\text{NO}_3^-$ ) in the solvent after HMF oxidation (catalyst = TEMPO = 0.5 g/L, solvent = DMSO, T = 100 °C,  $t$  = 60 min)

Catalysts	Cu (mg/L)	nitrate ( $\text{NO}_3^-$ ) (mg/L)
CHN-bar	0.23	0.2
CHN-strip	0.31	0.5
CHN-flower	0.26	0.3

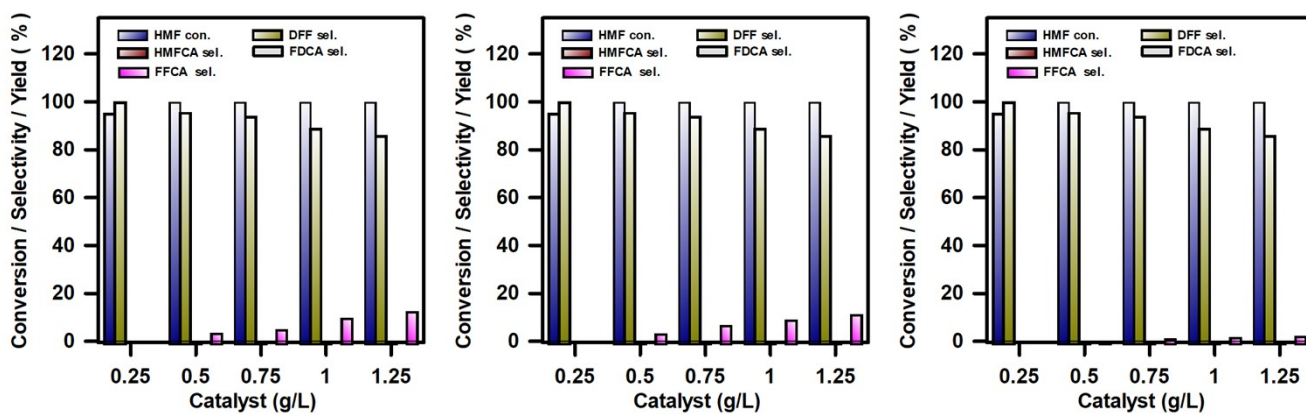


Fig. S1. Effect of catalyst dosage on selectivity of HMF oxidative: (a) CHN-bar, (b) CHN-strip, and (c) CHN-flower ( $T = 100\text{ }^{\circ}\text{C}$ ,  $t = 60\text{ min}$ )

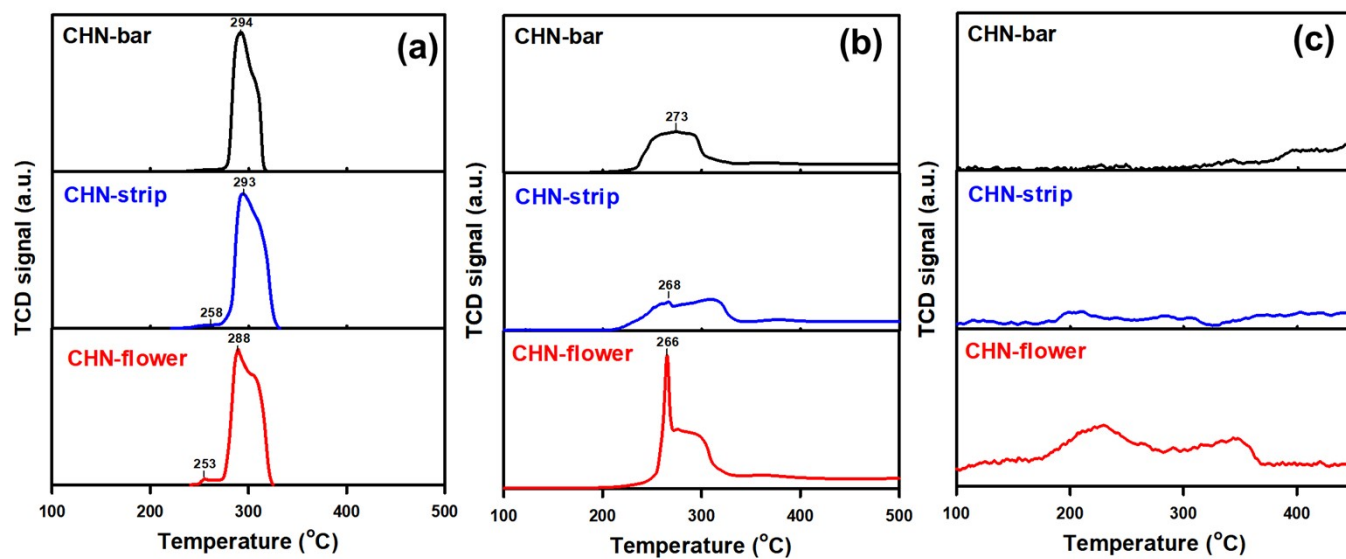


Fig. S2. (a) TPR profiles, (b) NH<sub>3</sub>-TPD, and (c) O<sub>2</sub>-TPD profiles of CHNs.