

Supplementary Information

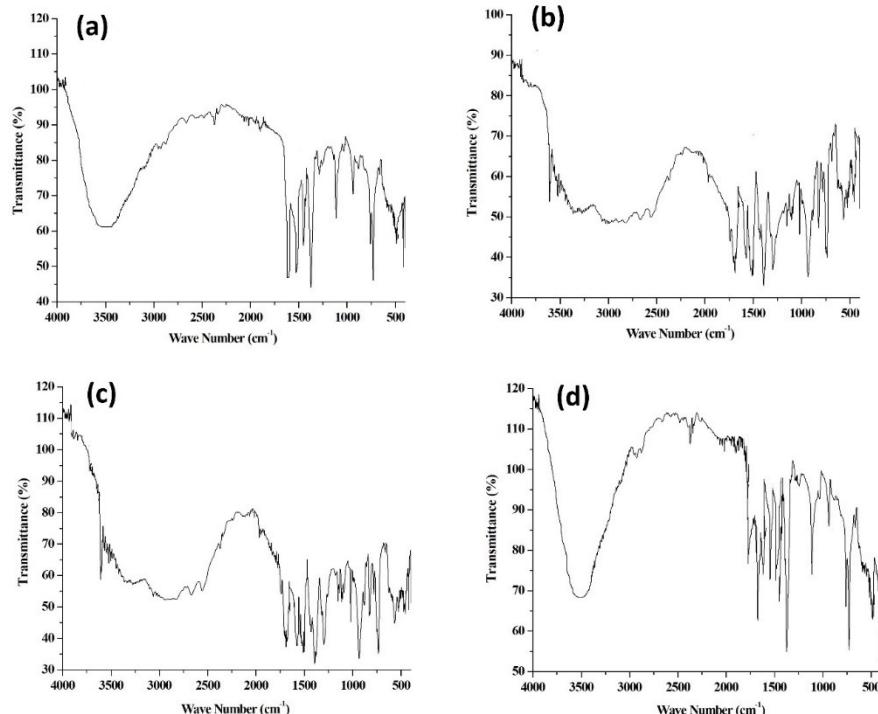


Fig. S1
**FTIR of (a) HKUST-1, (b) Cu-MOF-2, (c) HKUST-1@Cu-MOF-2
and (d) Cu-MOF-2@HKUST-1**

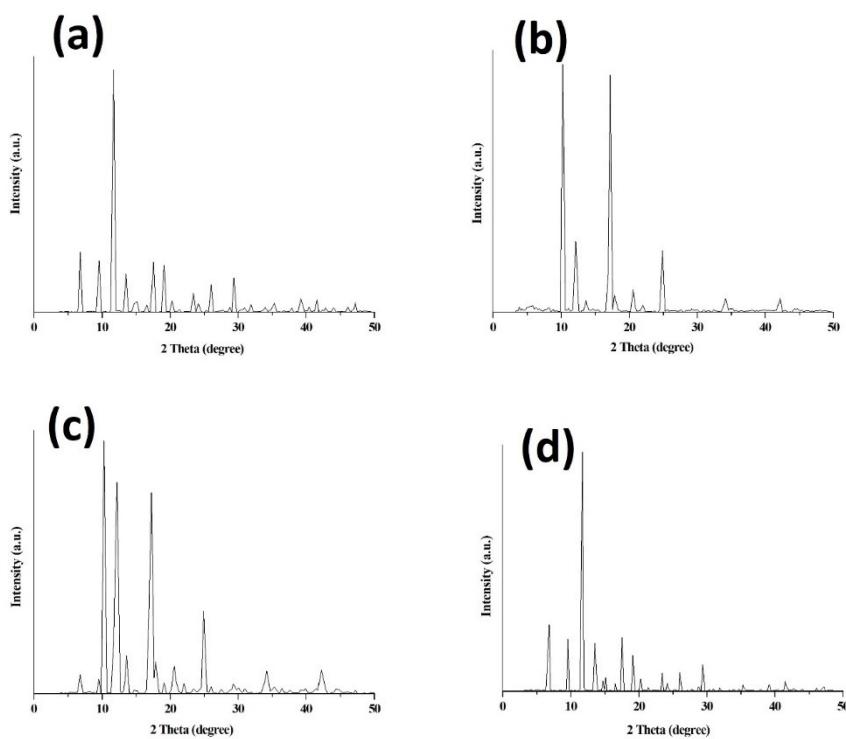


Fig. S2
**PXRD of (a) HKUST-1, (b) Cu-MOF-2, (c) HKUST-1@Cu-MOF-2
 and (d) Cu-MOF-2@HKUST-1**

Elements	Weight %	Atomic %
C	56.83	72.11
O	24.61	23.44
Cu	18.56	4.45
Total	100	100

Table S1 (a)
Elemental composition of HKUST-1

Elements	Weight %	Atomic %
C	60.47	72.93
O	26.65	24.13
Cu	12.88	2.94
Total	100	100

Table S1 (b)
Elemental composition of Cu-MOF-2

Elements	Weight %	Atomic %
C	59.13	72.19
O	26.80	24.56
Cu	14.07	3.25
Total	100	100

Table S1 (c)
Elemental composition of HKUST-1@Cu-MOF-2

Elements	Weight %	Atomic %
C	59.29	71.43
O	28.51	25.79
Cu	12.20	2.78
Total	100	100

Table S1 (d)
Elemental composition of Cu-MOF-2@HKUST-1

MOFs	C(1s)		O(1s)		Cu(2p)	
	Atomic %	B.E.	Atomic %	B.E.	Atomic %	B.E.
HKUST-1@ Cu-MOF-2	72.05	285.33	24.73	532.29	3.22	935.03
Cu-MOF-2@ HKUST-1	66.34	284.34	28.31	532.34	5.36	935.20

Table S2
XPS data of binding energy and atomic %

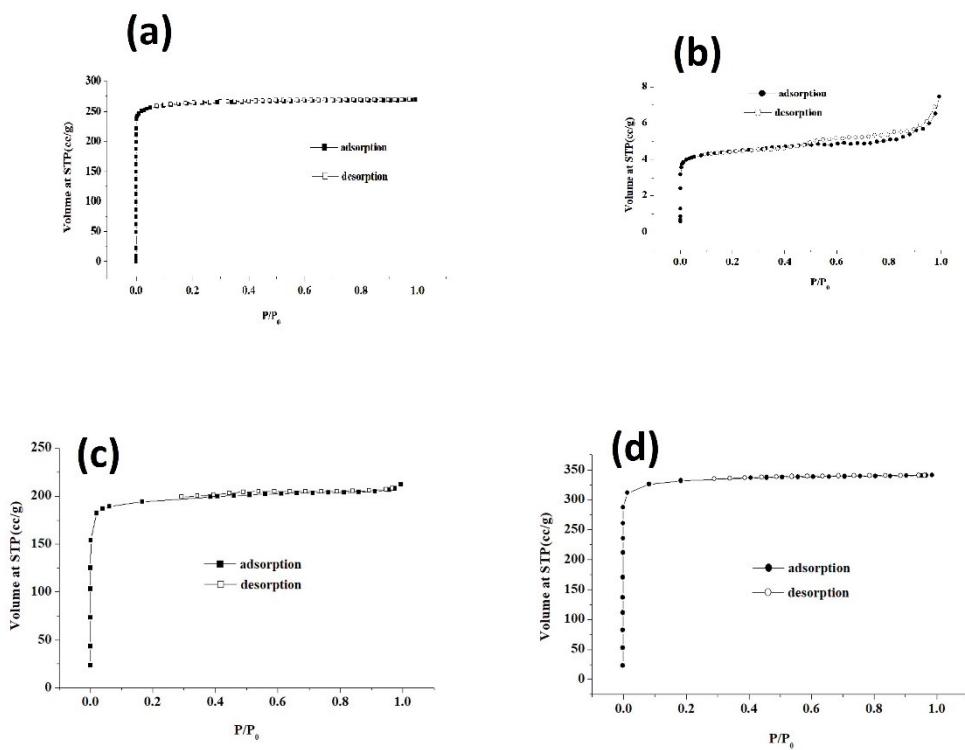


Fig. S3
N₂ sorption isotherm of
(a) HKUST-1, (b) Cu-MOF-2, (c) HKUST-1@Cu-MOF-2 and (d)
Cu-MOF-2@HKUST-1

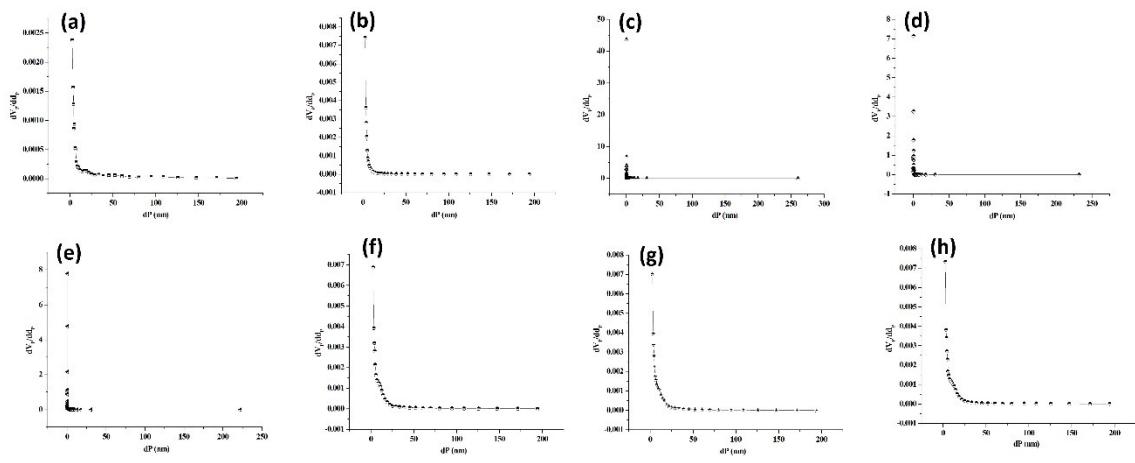


Fig. S4

BJH plot of (a) HKUST-1@Cu-MOF-2, (b) Cu-MOF-2@HKUST-1, (c) 10% PEG@HKUST-1@Cu-MOF-2, (d) 30% PEG@HKUST-1@Cu-MOF-2,
(e) 50% PEG@HKUST-1@Cu-MOF-2, (f) 10% PEG@Cu-MOF-2@HKUST-1,
(g) 30% PEG@Cu-MOF-2@HKUST-1 and (h) 50% PEG@Cu-MOF-2@HKUST-1

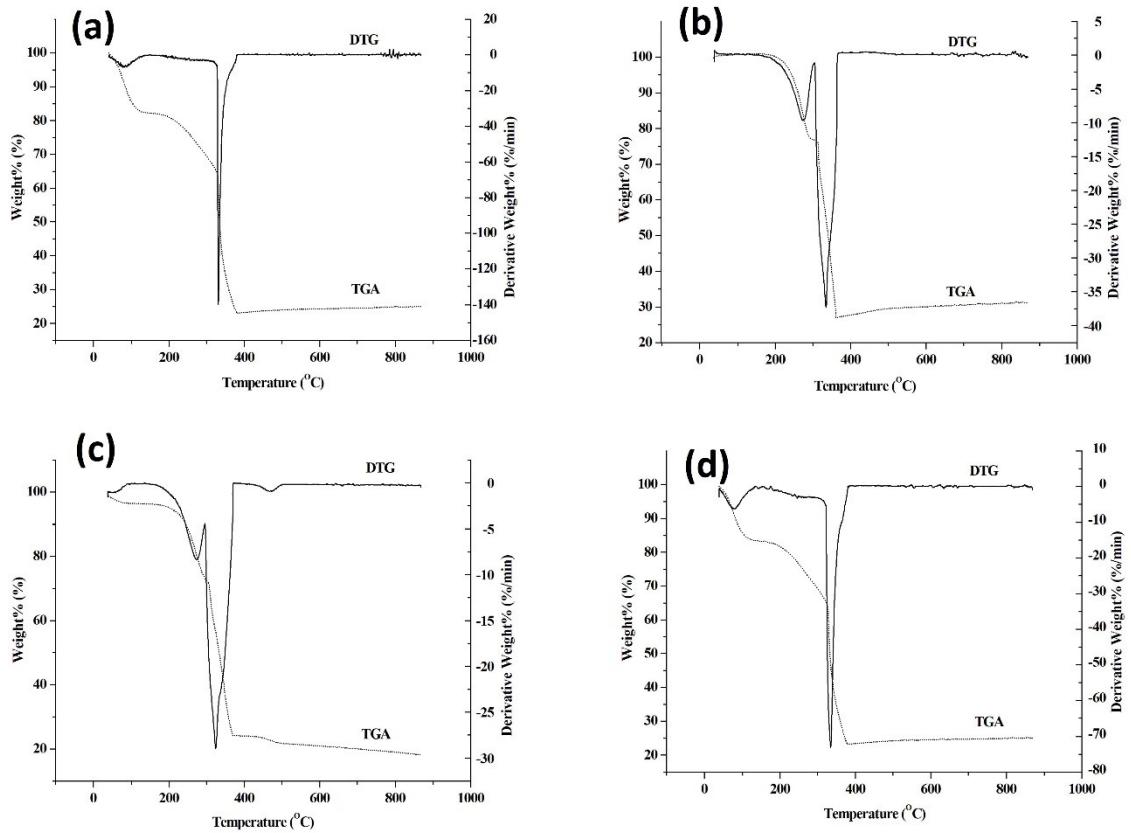


Fig. S5

**TG & DTG of (a) HKUST-1, (b) Cu-MOF-2, (c) HKUST-1@Cu-MOF-2
and (d) Cu-MOF-2@HKUST-1**