Electronic Supplementary Information (ESI) for

$Pb_3[C_6(CH_3)_3(CO_2)_3H_6]_2[DMF]_3$: First layered Pb-Kemp's triacid complex

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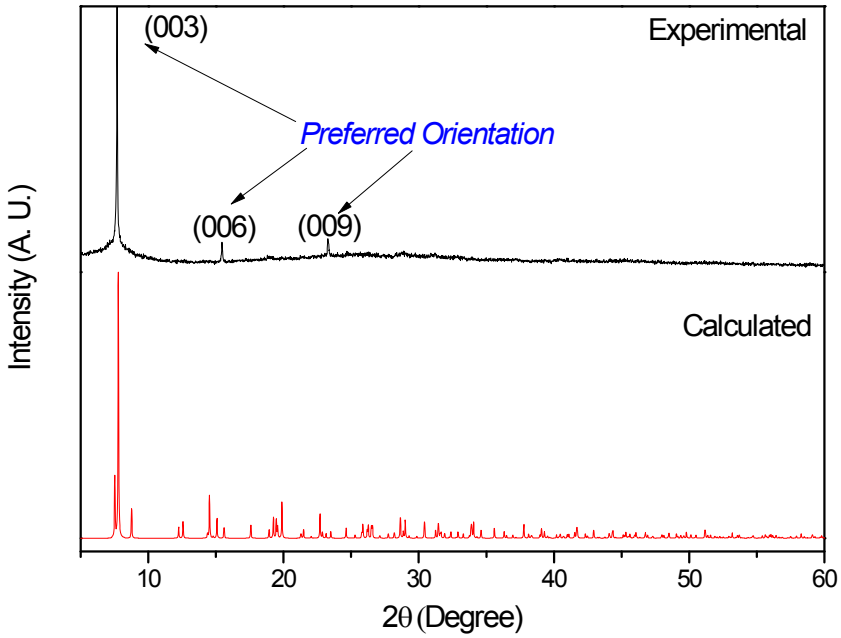
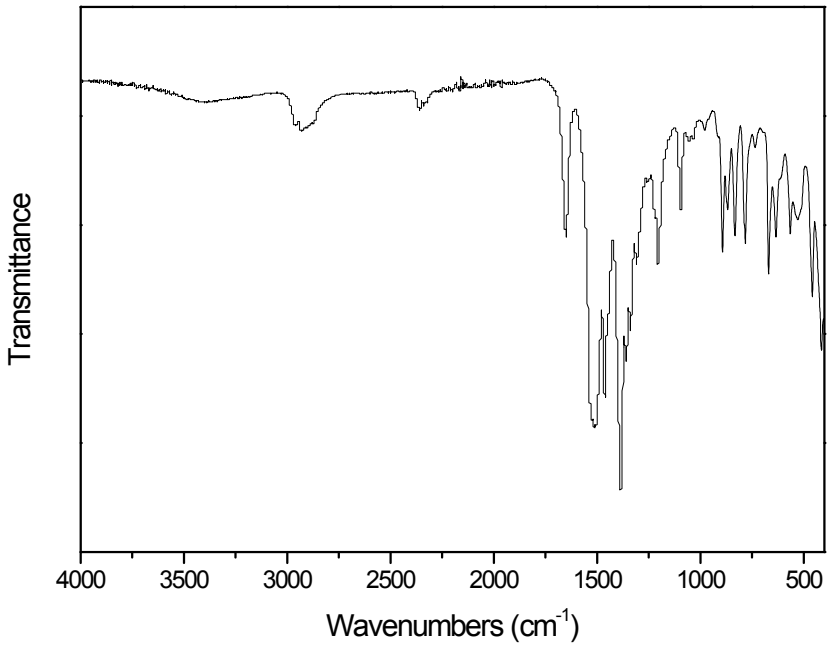
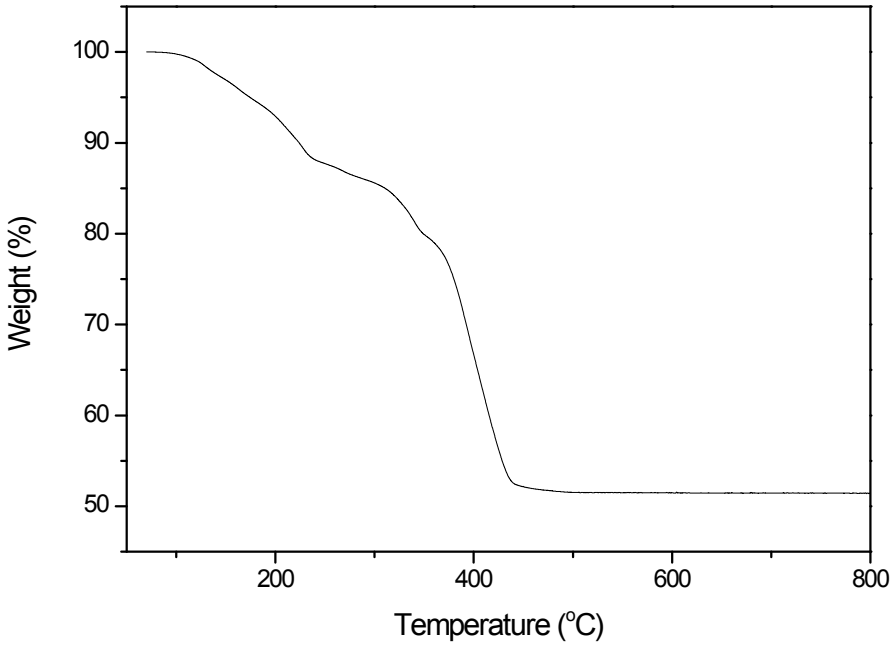
S1. Calculated and observed powder X-ray diffraction patterns for CAUMOF-17

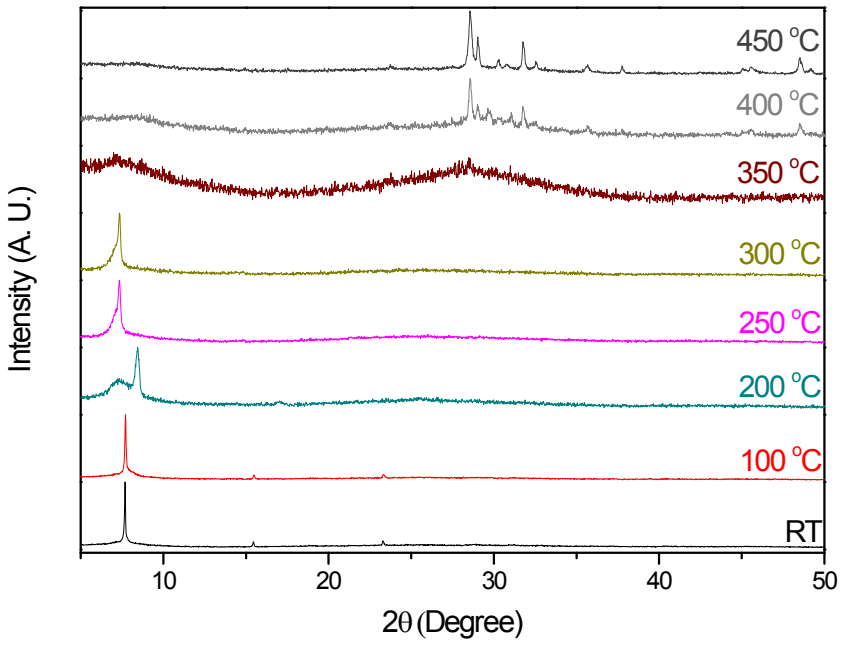


S2. Infrared spectrum of CAUMOF-17



S3. Thermogravimetric analysis diagram and powder X-ray diffraction patterns at different temperatures of CAUMOF-17





S4. Energy dispersive analysis by X-ray (EDX) data and powder X-ray diffraction pattern for the product of competing crystallization reaction between Cd^{2+} and Pb^{2+} with Kemp's triacid

Element	Weight%	Atomic%
C K	15.74	53.61
N K	0.00	0.00
O K	8.56	21.88
Cd L	57.43	20.90
Pb M	18.27	3.61
Totals	100.00