

Electronic Supporting Information (ESI)

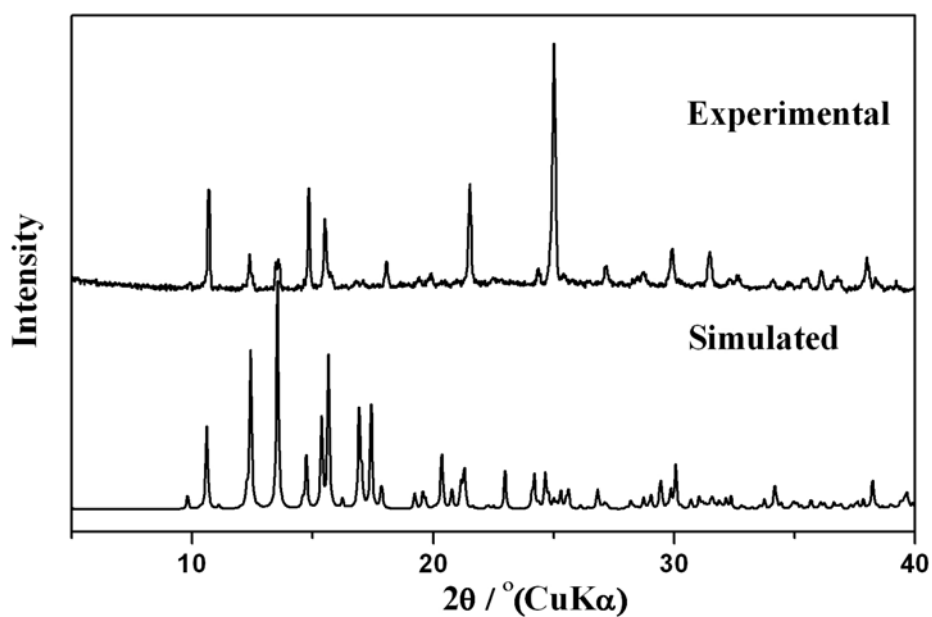
Template-directed synthesis of three new open-framework metal(II) oxalates using Co(III) complex as template

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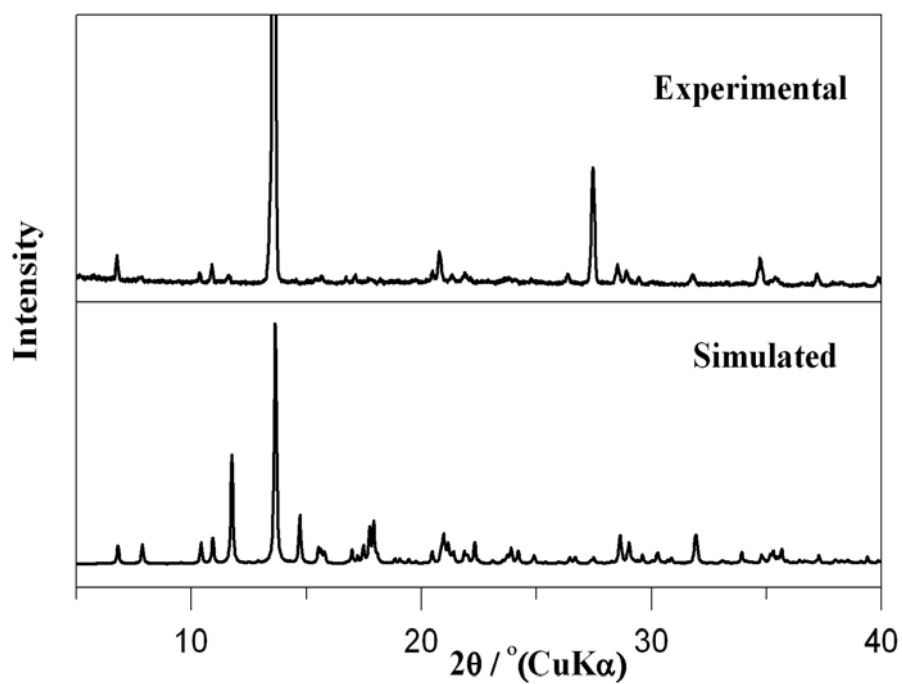
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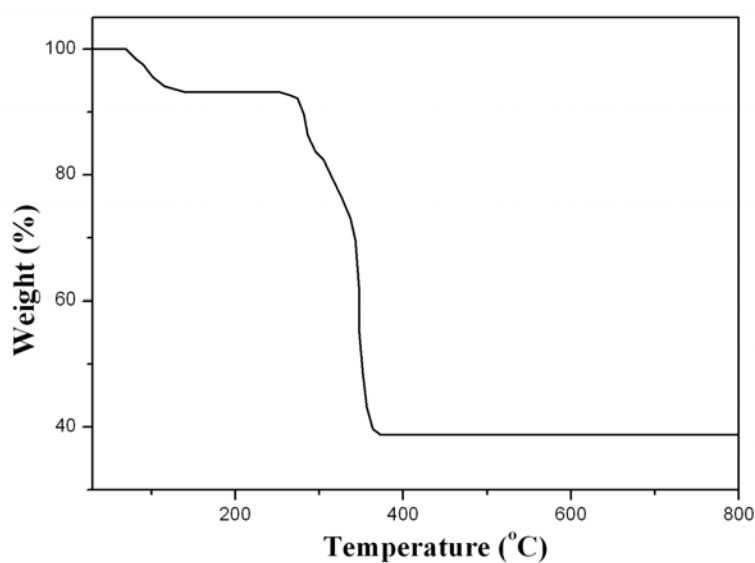


(a)

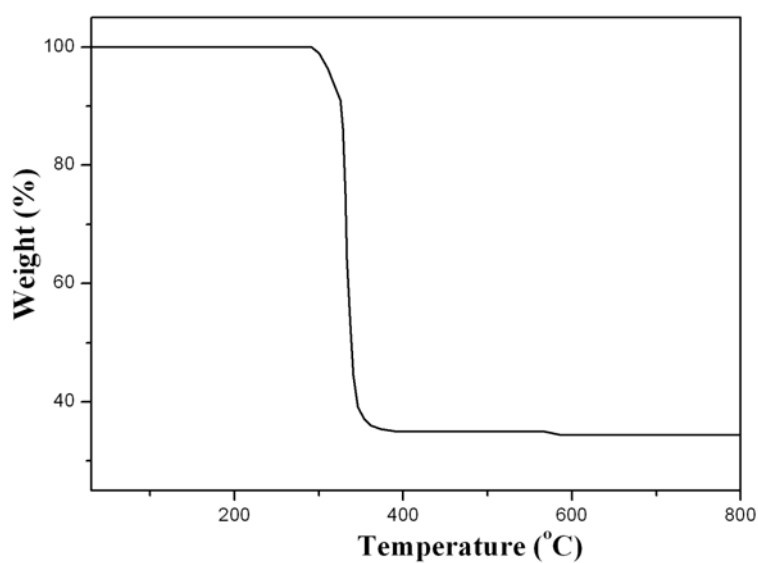


(b)

Fig S1. Simulated and experimental XPRD of (a) **1** and (b) **2**



(a)



(b)

Fig S2. TGA of (a) **1** and (b) **2**. When exposed in atmosphere, part of the crystallization water in **1** will be lost in several days, and full of the crystallization water in **2** will be lost in a longer time, which is confirmed by the TGA results. The TGA curve of **1** gives only about 50% of calculated weight loss of crystallization water from 65 °C to 140 °C, while no weight loss is observed prior 290 °C in the TGA curve of **2**. The major weight loss for **1** and **2** happened at about 250 °C and 290 °C, respectively, which was related to the decomposition of the metal complexes and the collapse of the frameworks.