

Supporting Information

One-pot Synthesis of Hierarchical-pore Metal–Organic Frameworks for Drug Delivery and Fluorescent Imaging

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Supplementary Information:

Experimental section

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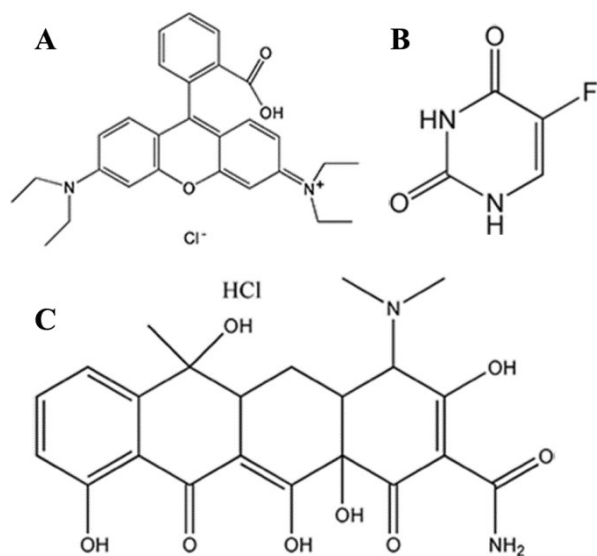


Figure S1. Chemical structures of RhB (A), 5-FU (B) and TCH (C)

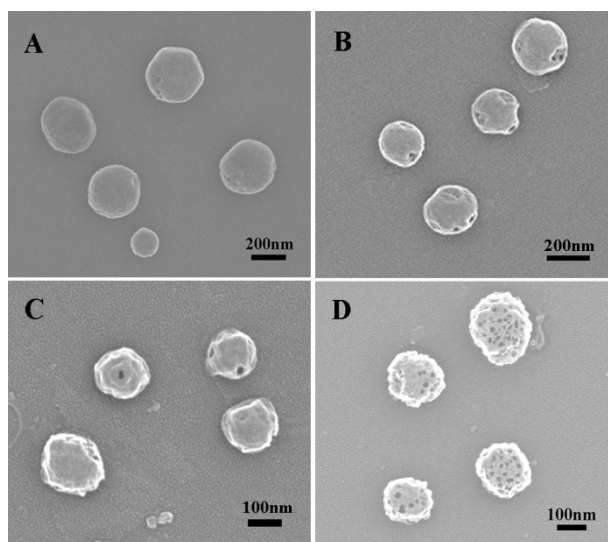


Figure S2. SEM images of Al-MOF (A), RhB@Al-MOF-1 (B), RhB@Al-MOF-2 (C) and

RhB@Al-MOF (D)

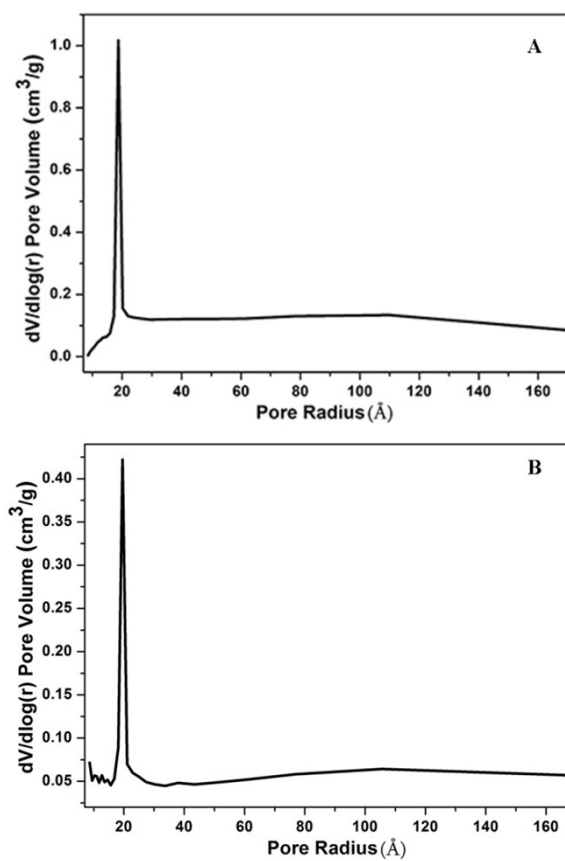


Figure S3. The pore size distributions of Al-MOF (A) and RhB@Al-MOF (B)

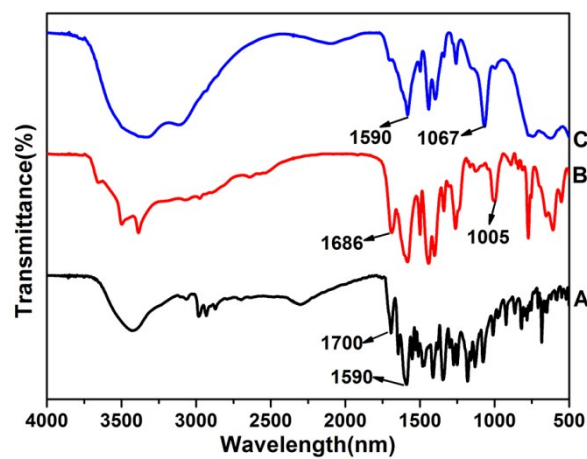


Figure S4. FTIR spectra of RhB (A), RhB@Al-MOF (B), Al-MOF (C)

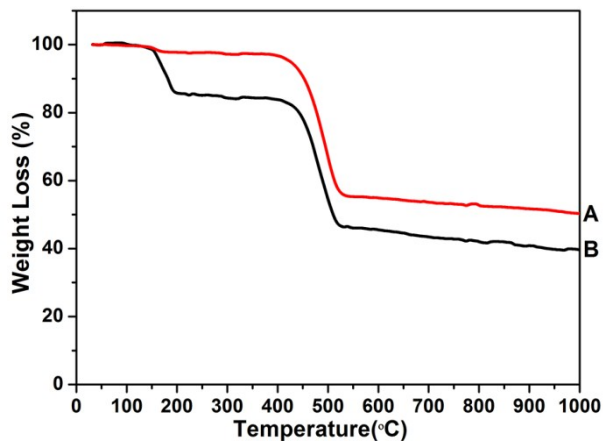


Figure S5. The TGA curves of Al-MOF (A) and RhB@Al-MOF (B)

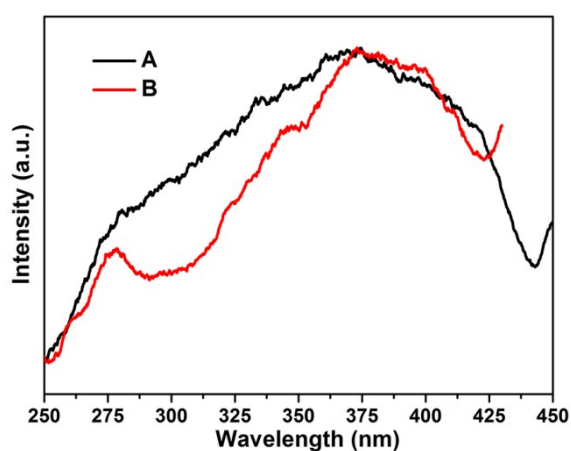


Figure S6. The excitation spectra of Al-MOF (A) and RhB@Al-MOF (B) in the solid state

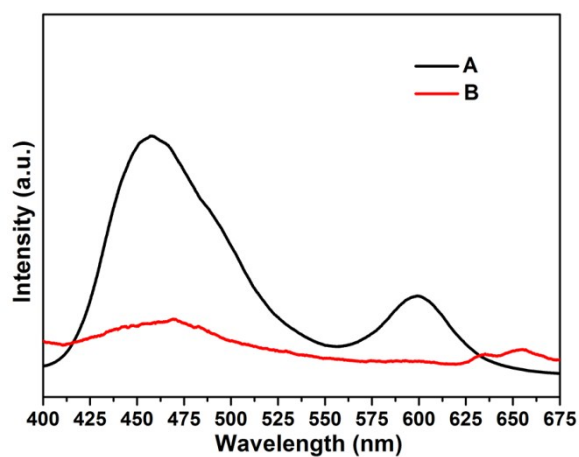


Figure S7. The emission spectra of RhB@Al-MOF (A) and RhB (B) in the solid state

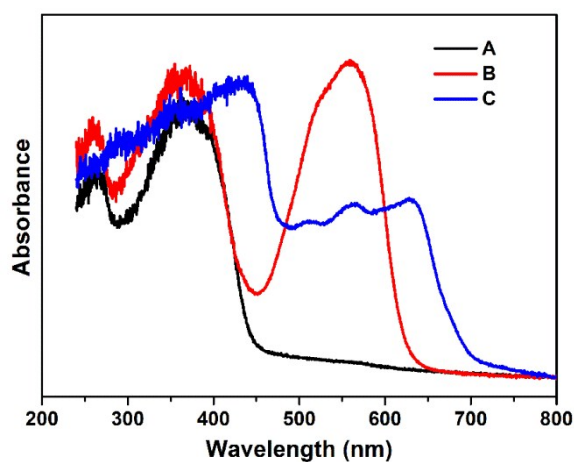


Figure S8. The solid-state UV-vis spectra of Al-MOF (A), RhB@Al-MOF (B) and RhB (C)

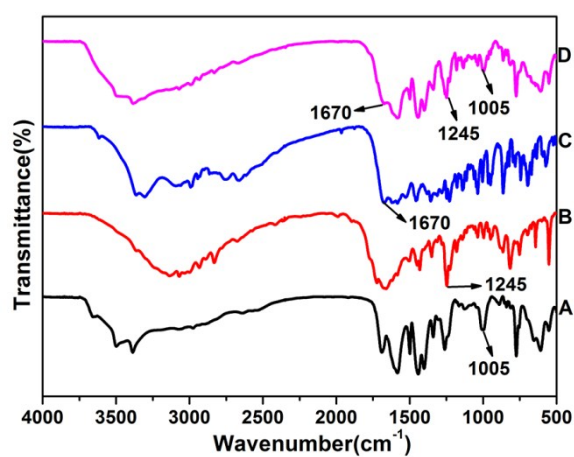


Figure S9. FTIR spectra of RhB@Al-MOF (A), 5-FU (B), TCH (C) and RhB@Al-MOF/5-FU/TCH (D)

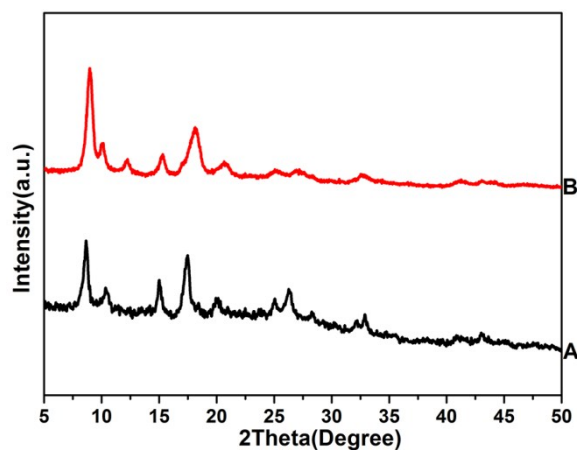


Figure S10. XRD patterns of as-synthesized RhB@Al-MOF (A) and RhB@Al-MOF/5-FU/TCH

(B)

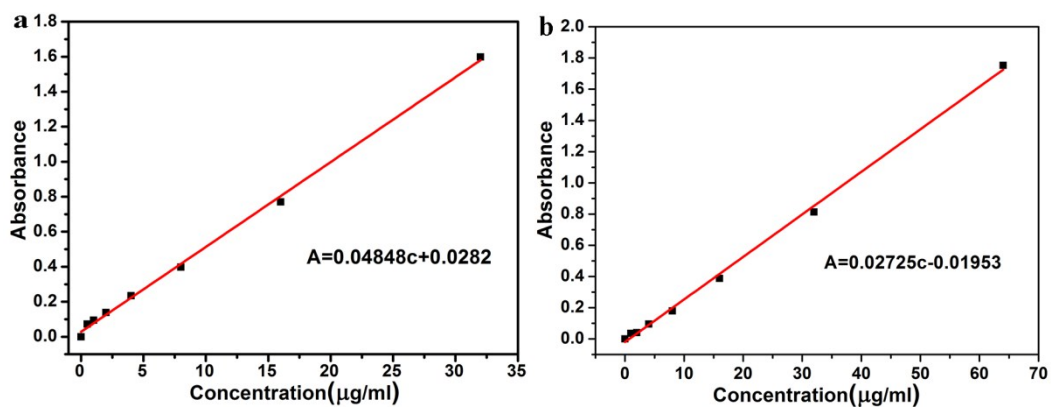


Figure S11. The calibration curves of 5-FU (a) and TCH (b)

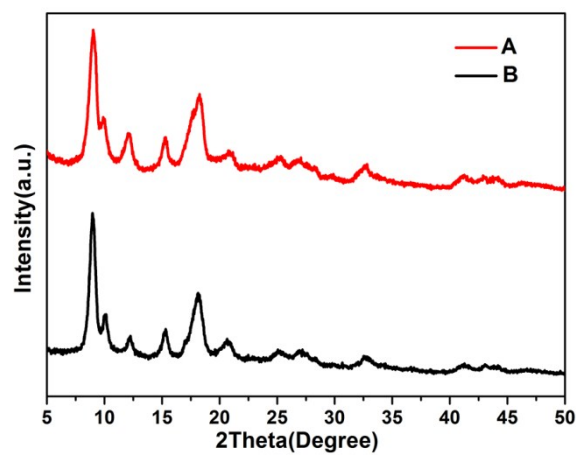


Figure S12. XRD patterns of RhB@Al-MOF/5-FU/TCH after drug release (A) and RhB@Al-MOF/5-FU/TCH (B)