

Electronic supplementary information (ESI)

Facile fabrication of MIL-103(Eu) porous coordination polymer nanostructures and their sorption and sensing properties

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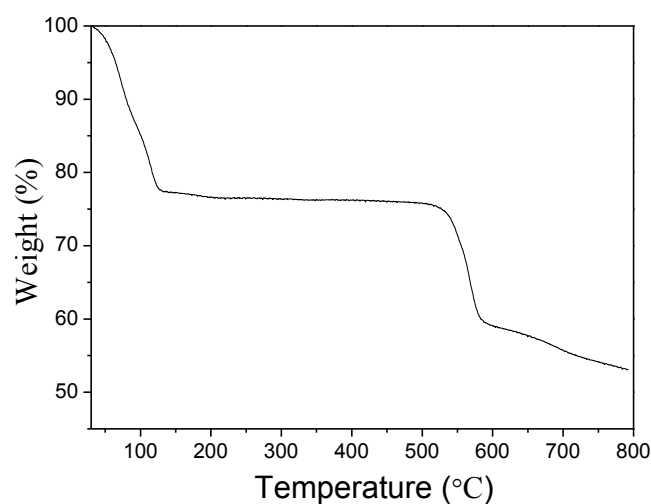


Fig. S1 TGA curve of the as-obtained MIL-103(Eu) nanorods.

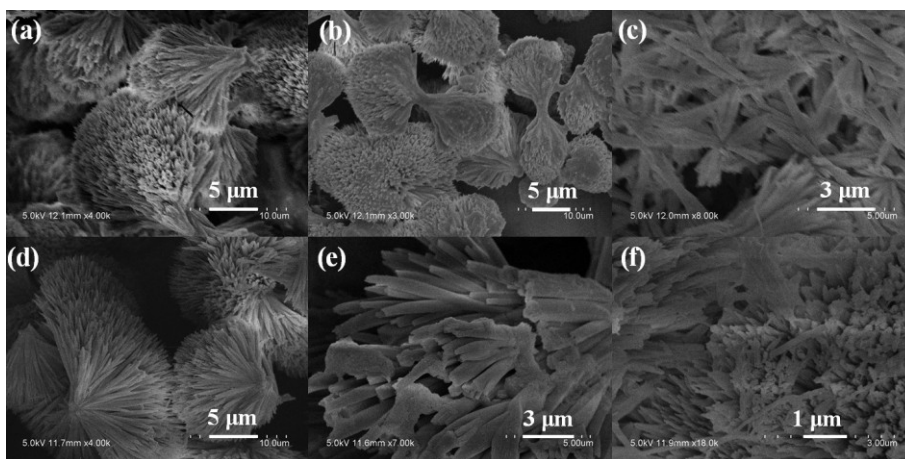


Fig. S2 SEM images of MIL-103(Eu) crystals prepared with different amount of ammonia: (a) 1, (b) 2 and (c) 3 equiv; and NaOH: (d) 1, (e) 2 and (f) 3 equiv.

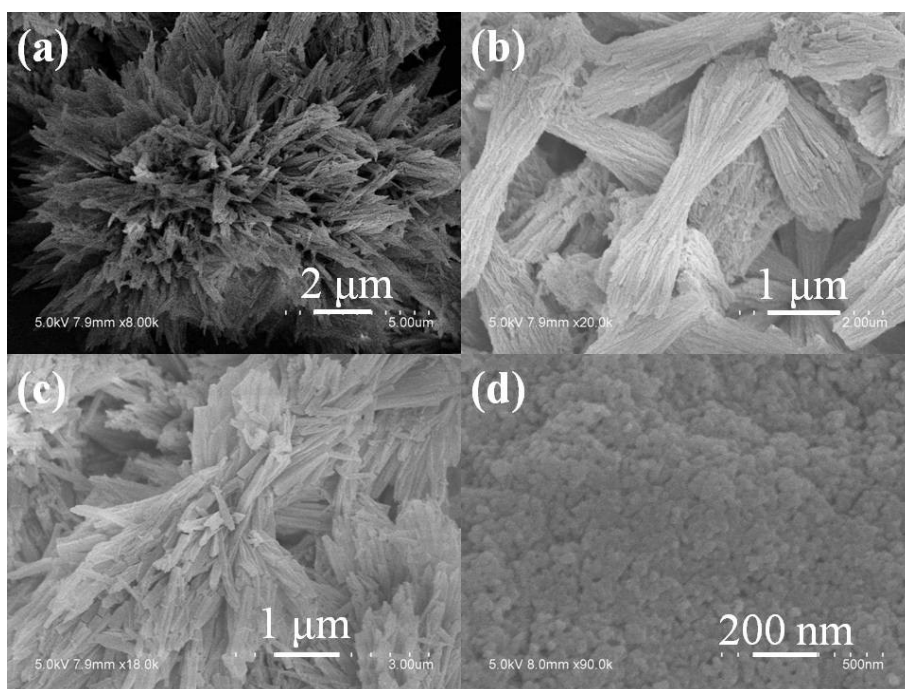


Fig. S3 SEM images of MIL-103(Eu) crystals prepared with different amount of sodium acetate: (a) 0, (b) 1, (c) 2, (d) 3 equiv when the concentration of H₃BTB is 0.125 mM.

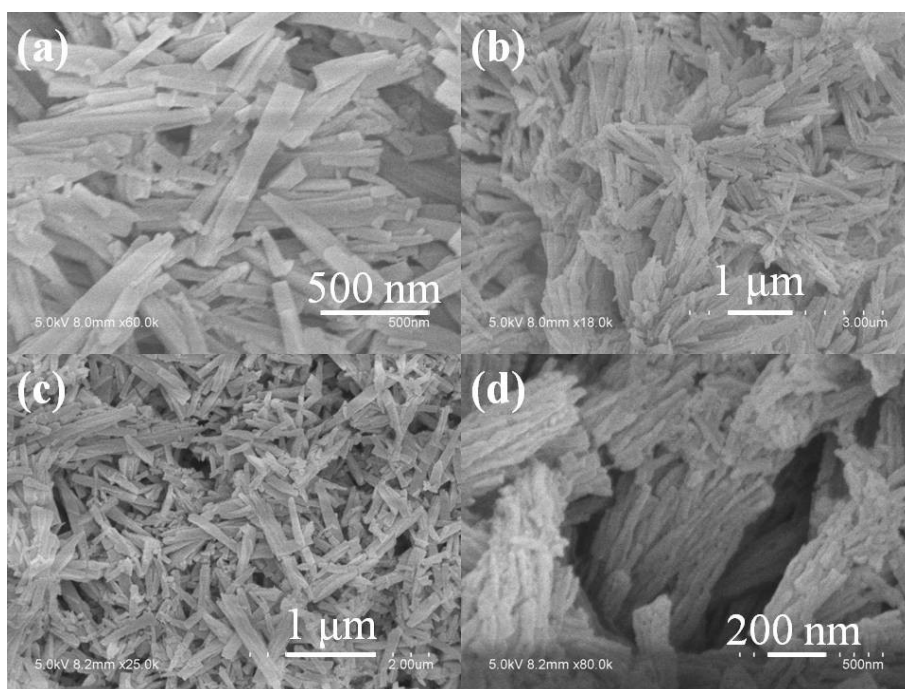


Fig. S4 SEM images of MIL-103(Eu) crystals prepared with different amount of sodium acetate: (a) 0, (b) 1, (c) 2, (d) 3 equiv when the concentration of H₃BTB is 0.5 mM.

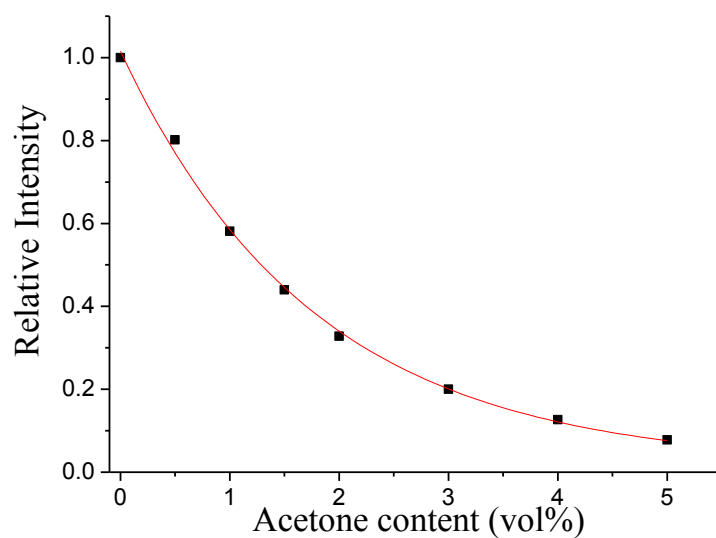


Fig. S5 The luminescence intensity of the MIL-103(Eu) nanorods as a function of acetone content.

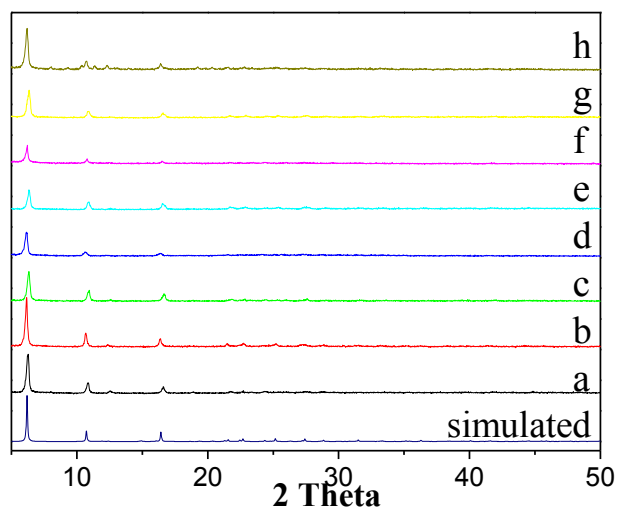


Fig. S6 PXRD patterns of MIL-103(Eu) crystals soaked in different metal ion solutions: (a) Na(I), (b) Mn(II), (c) Co(II), (d) Mg(II), (e) Ni(II), (f) Cd(II), (g) Zn(II) and (h) Cu(II).