

Electronic Supporting Information

Lanthanide functionalized hybrid materials of polyoxometallate based metal-organic frameworks for multi-color luminescence

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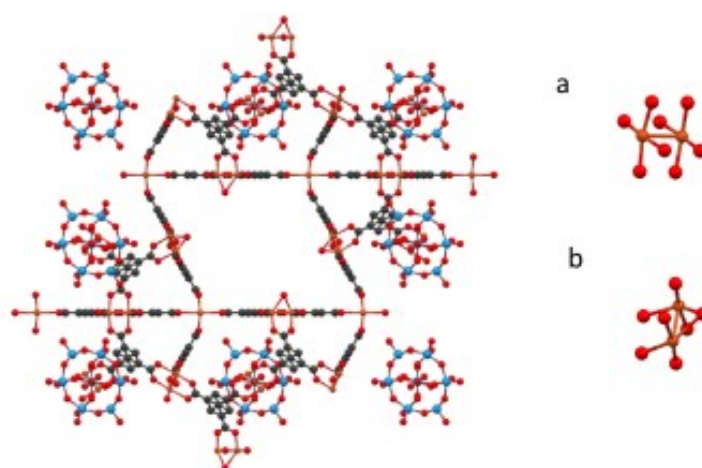


Figure S1 The scheme for the crystal structure COK-15: red for O, blue for W, black for C and orange for Cu, respectively; a, b is the coordination mode of Cu ion.

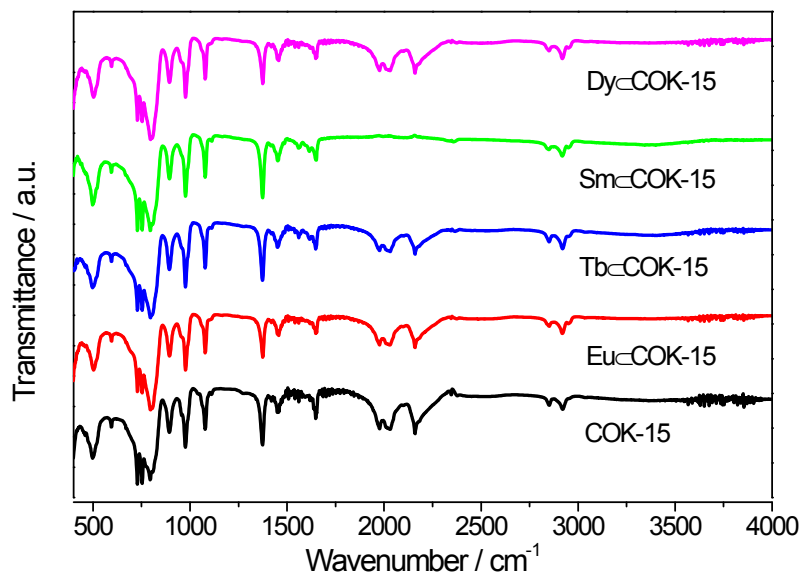


Figure S2 The FTIR spectra of COK-15 and its lanthanide functionalized hybrid materials $\text{Ln}^{3+}\text{-COK-15}$

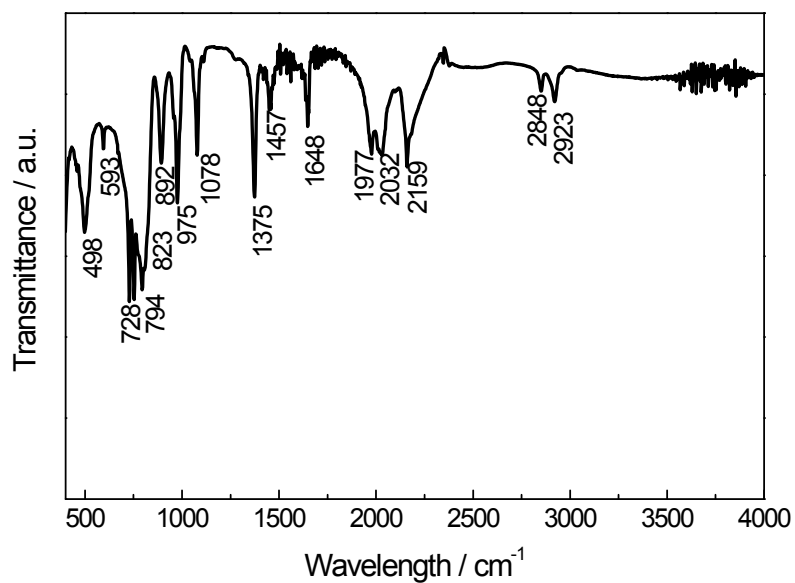


Figure S3 The assignments for the main bands of FTIR spectrum of COK-15

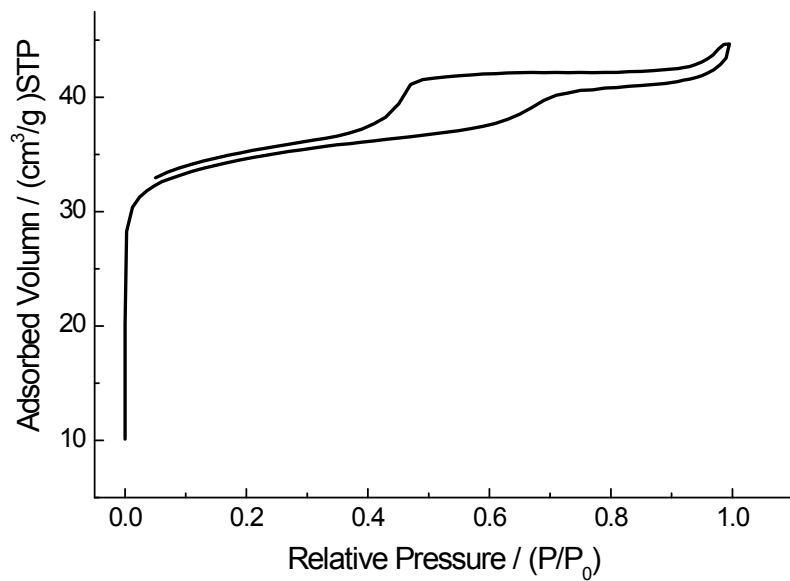


Figure S4 The selected nitrogen adsorption –desorption isotherms of the COK-15.

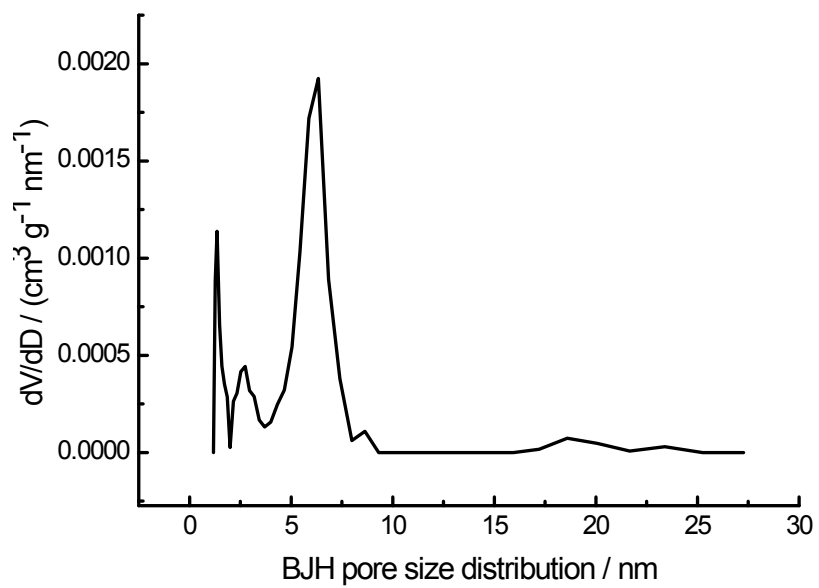


Figure S5 The BJH pore size distribution diagram for COK-15

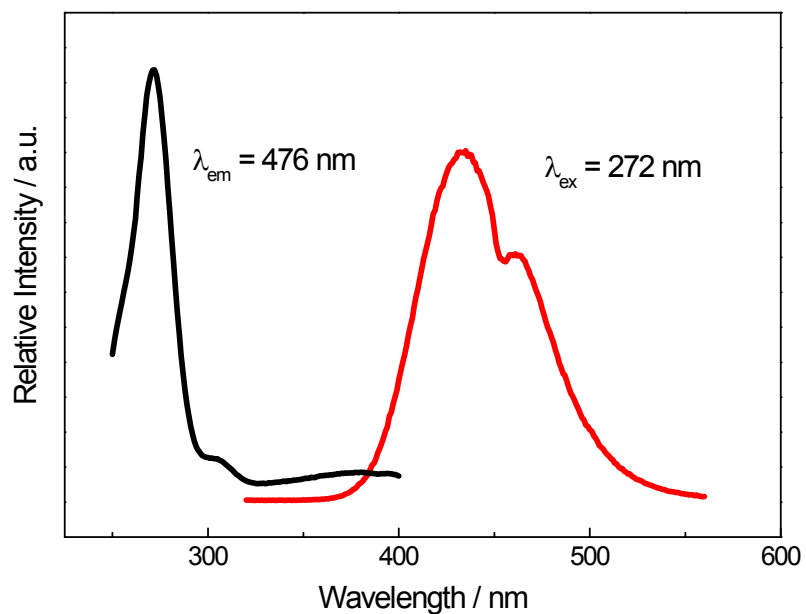
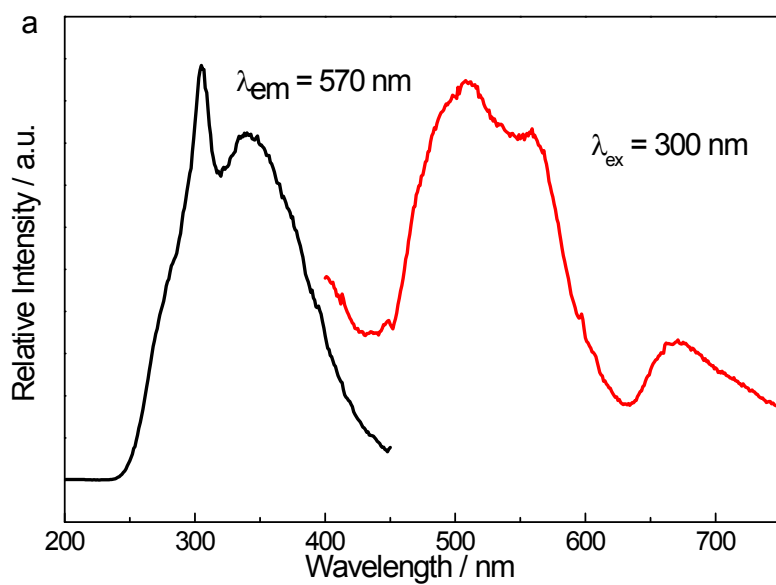


Figure S6 The excitation and emission spectra of COK-15



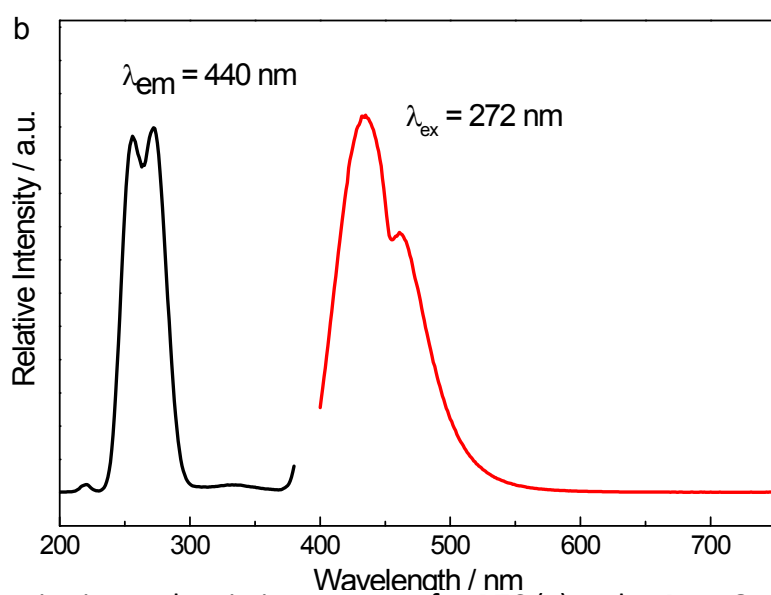


Figure S7 The excitation and emission spectra of H_3BTC (a) and $\text{H}_3\text{PW}_{12}\text{O}_{40}$ (b)

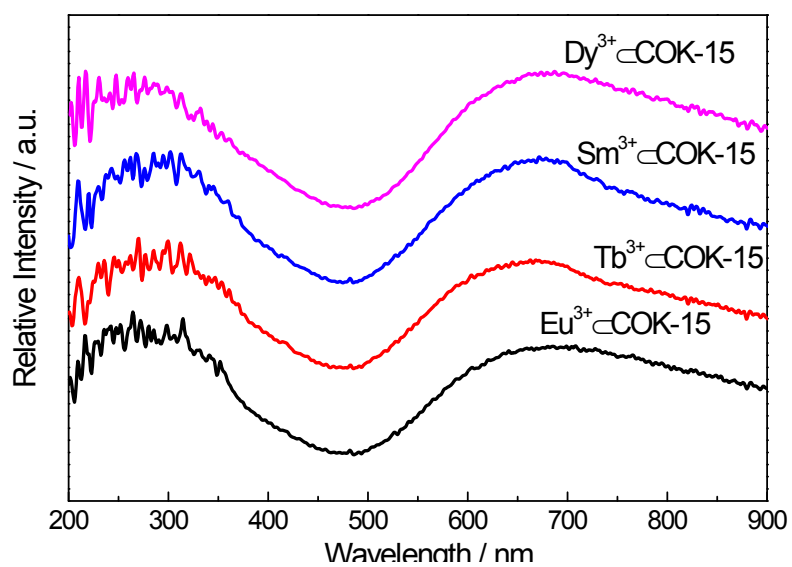


Figure S8 The ultraviolet diffuse reflectance spectra of hybrid materials $\text{Ln}^{3+}\text{-COK-15}$