Supporting Information



Figure S1. PXRD pattern of empty MOF-5 (A), DXP@MOF-5 (B), empty MOF-177 (C), DXP@MOF-177 (D), empty UMCM-1 (E), DXP@UMCM-1 (F) and FIrpic@UMCM-1 (G).



Figure S2. ¹³C MAS-NMR spectra of MOF-5 (a), DXP@MOF-5 (b), MOF-177 (c), DXP@MOF-177 (d), UMCM-1 (e), DXP@UMCM-1 (f). and pure DXP (g).

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Figure S3. ¹H MAS-NMR spectra of UMCM-1 (a), FIrpic@UMCM-1 (b) and FIrpic.



Figure S4. ¹³C MAS-NMR spectra of UMCM-1 (a), FIrpic@UMCM-1 (b) and FIrpic (c).

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Figure S5. Emission spectra ($\lambda_{ex} = 365 \text{ nm}$) of FIrpic@UMCM-1 (a) and FIrpic (b) suspended in Toluene.



Figure S6. Raman spectra of DXP (a), DXP@MOF-5 (b), DXP@MOF-177 (c) and DXP@UMCM-1.

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Figure S7. IR spectra of FIrpic (a), FIrpic@UMCM-1 (b) and UMCM-1 (c).



Figure S8. Emission spectra of DXP@MOF-5 (bulk material suspended in toluene, red curve) and DXP@MOF-5 (solvent free single crystal with high dye loading, black curve).