

Supporting Information

Hierarchical Accordion-like Lanthanide-Based Metal-Organic Frameworks: Solvent-Free Syntheses and Ratiometric Luminescence Temperature-Sensing Properties

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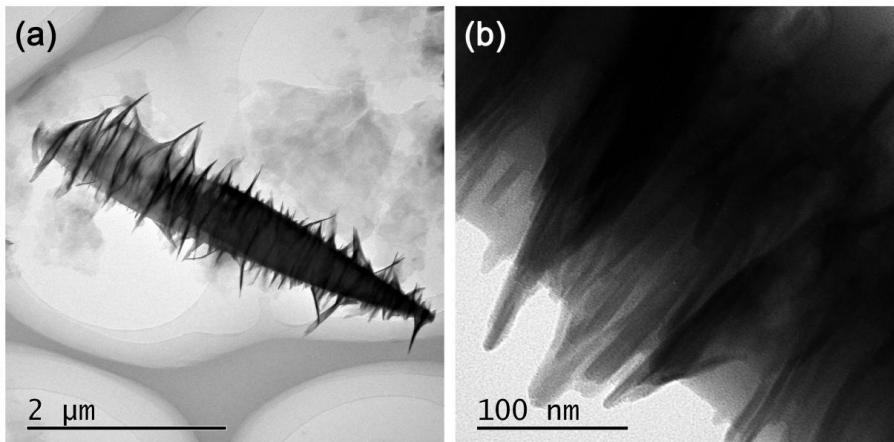


Fig. S1. HRTEM images of Y-MOF sample with different resolution of 2 μm in scale (a), and 100 nm in scale (b).

Table S1. Comparison of the maximum relative sensitivities ($S_{\text{m.r.}}$) between the present Eu-Dy-MOF material and other similar rare earth doped thermometers.

Material	Temp. range [K]	Max. $S_{\text{m.r.}} [\% \text{ K}^{-1}]$	Ref.
Dycpia	298-473	0.42 (473 K)	1
Dy 2D sheets	280-370	1.18 (280 K)	2
UiO-66(Zr&Eu) polymer films	237-337	4.26 (337K)	3
$\text{Tb}_{0.95}\text{Eu}_{0.05}(\text{btb})$	10-320	2.85 (14 K)	4
$[(\text{Tb}_{0.914}\text{Eu}_{0.086})_2(\text{pda})_3(\text{H}_2\text{O})](\text{H}_2\text{O})_2$	10-325	5.96 (25 K)	5
$\text{Tb}_{0.9931}\text{Eu}_{0.0069}(\text{dmbdc})$	50-200	1.15 (200 K)	6
$[\text{Tb}_{0.3}\text{Eu}_{0.7}(\text{D-cam})(\text{Himdc})_2(\text{H}_2\text{O})_2]_3$	100-450	0.11 (450 K)	7
$\text{Tb}_{0.005}\text{Eu}_{0.995}@\text{UiO-67-bpydc}$	100-300	3.01 (180 K)	8
$\text{Tb}_{0.999}\text{Eu}_{0.0001}(\text{bpdc})(\text{ad})$	100-300	1.23 (constant)	9
$[\text{Tb}_{0.99}\text{Eu}_{0.01}(\text{hfa})_3(\text{dpbp})]_n$	200-300	0.52 (200 K)	10
Eu,Tb POM@MOF	60-360	0.71 (60 K)	2
Eu, Dy-codoped Y-MOF	80-200	0.64(170 K)	This Work

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