

## Electronic Supplementary Information

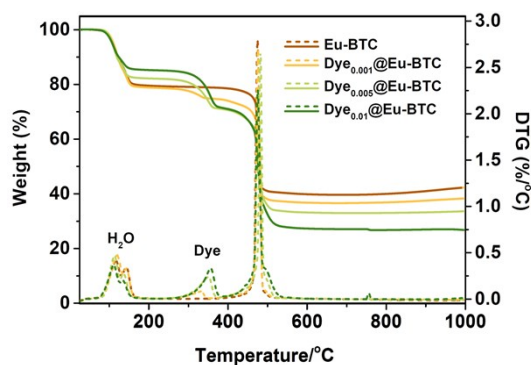
### Coumarin 7 functionalized europium-based metal-organic-framework luminescent composites for dual-mode optical thermometry

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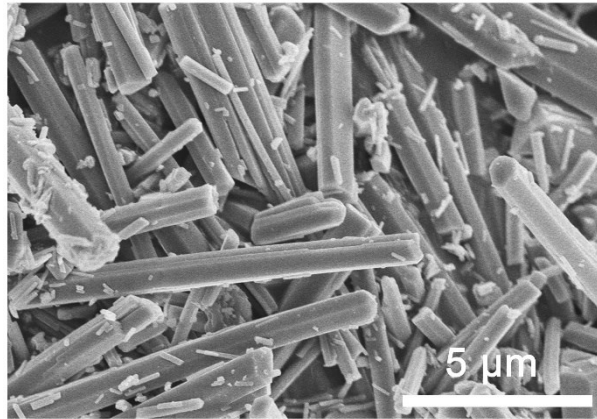
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**Table S1** Elemental analysis of C, H, and N, and the real contents of dye molecules loaded in different Dye@Eu-BTC samples.

Luminescent materials	C (wt %)	H (wt %)	N (wt %)	Dye (wt %)
Dye <sub>0.005</sub> @Eu-BTC	25.54	3.38	0.63	5.00
Dye <sub>0.001</sub> @Eu-BTC	31.99	3.79	2.24	17.76
Dye <sub>0.01</sub> @Eu-BTC	38.42	4.21	3.94	31.24



**Fig. S1** TG curves of the Eu-BTC, Dye<sub>0.005</sub>@Eu-BTC, Dye<sub>0.001</sub>@Eu-BTC, and Dye<sub>0.01</sub>@Eu-BTC samples.



**Fig. S2** The SEM image of Dye0.005@Eu-BTC after 10 cycles of heating and cooling processes.