

Supporting Information

Synthesis and characterization of novel luminescent europium (III) hybrid materials with a host based on titania–mesoporous silica or alumina– mesoporous silica

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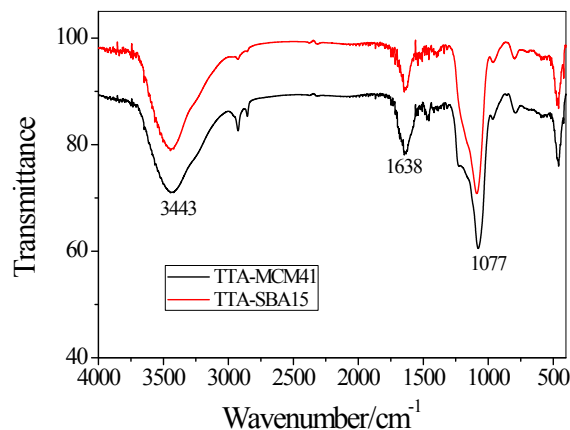


Fig. S1. IR spectra of as-synthesized TTA-MCM41 and TTA-SBA15.

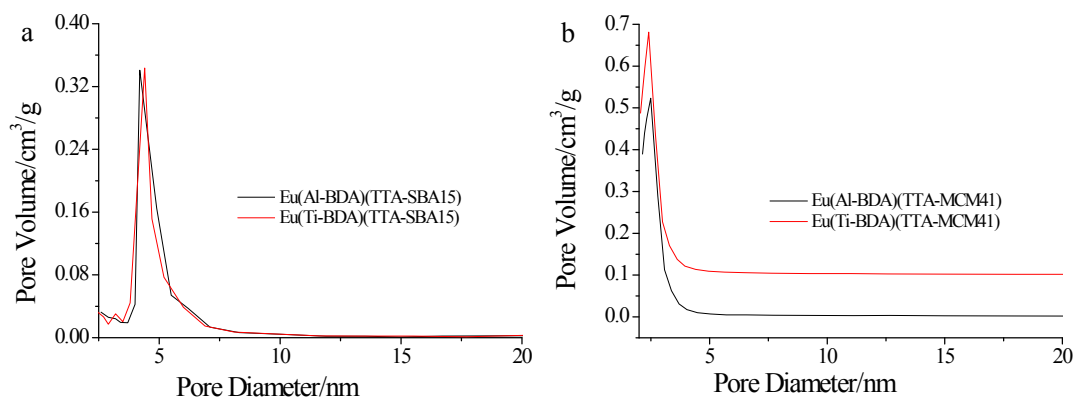
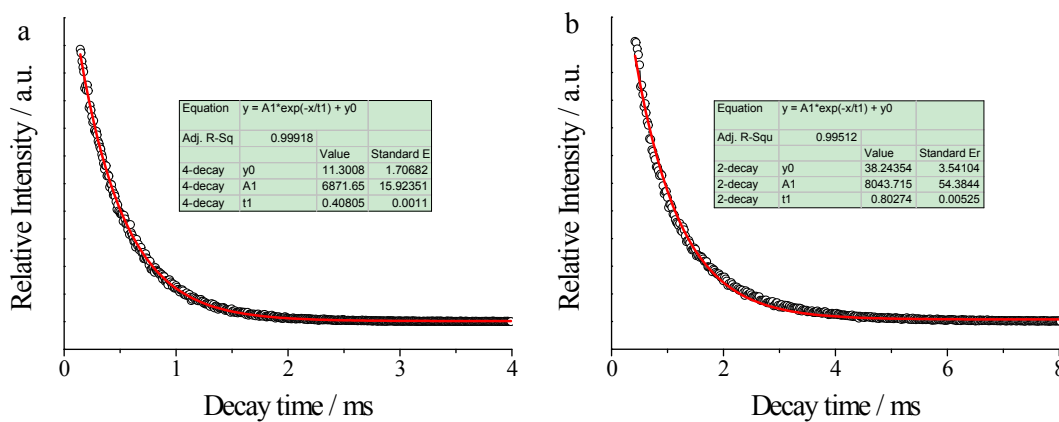


Fig. S2. Pore size distribution curves of Eu(M-BDA) (TTA-SBA15), (a), and Eu(M-BDA) (TTA-MCM41), (b), (M=Al, Ti).



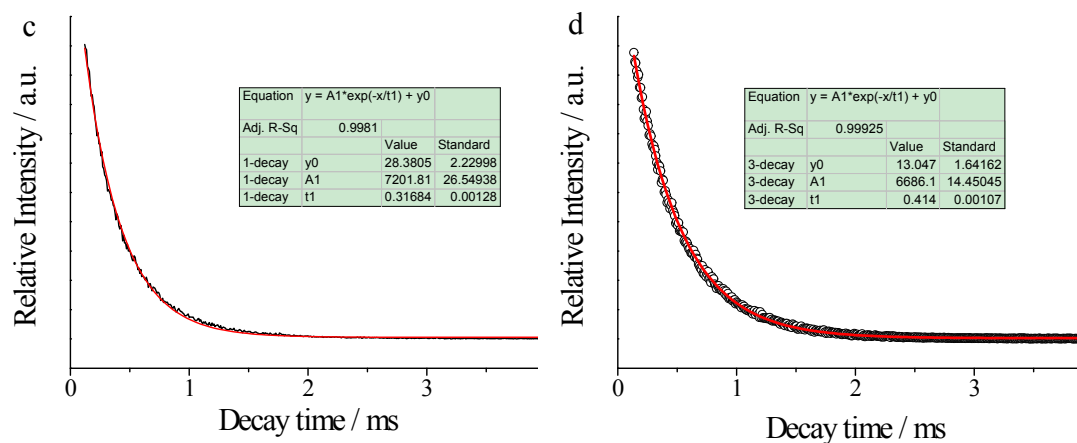


Fig. S3. Luminescence time decay curves for the sample Eu(Ti-BDA) (TTA-SBA15)₃ (a), Eu(Al-BDA) (TTA-SBA15)₃ (b), Eu(Ti-BDA) (TTA-MCM41)₃ (c) and Eu(Ti-BDA) (TTA-MCM41)₃ (d) (open circle: experimental data; solid line: fitted data).

Table S1. Structural Parameters of TTA-MCM41 and TTA-SBA15

sample	d_{100} (nm)	a_0 (nm)	S_{BET} (m ² /g)	V (cm ³ /g)	D (nm)	t (nm)
TTA-MCM41	4.02	4.64	892	0.73	3.41	1.23
TTA-SBA15	10.15	11.72	816	0.83	5.42	6.30