

Preparation of Hybrid Mesoporous Silica Luminescent Nanoparticles with Lanthanide(III) Complexes and Their Exhibition to White Emission

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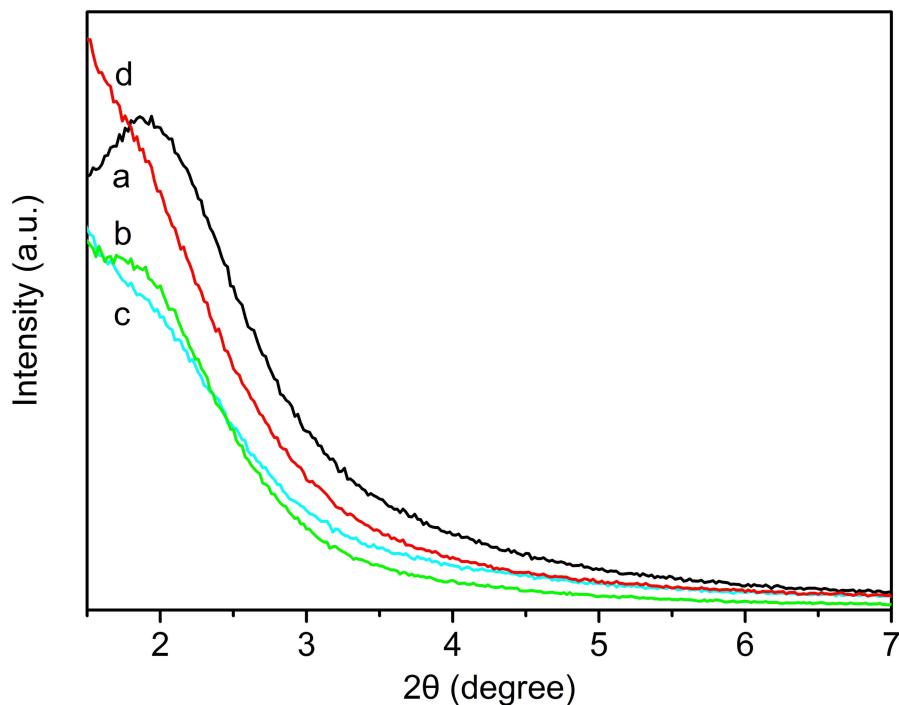


Figure S1. XRD patterns of surfactant-extracted MSNs (a), dpa-Si- MSNs (b), Eu-dpa-Si- MSNs (c), and Tb-dpa-Si-MSNs (d).

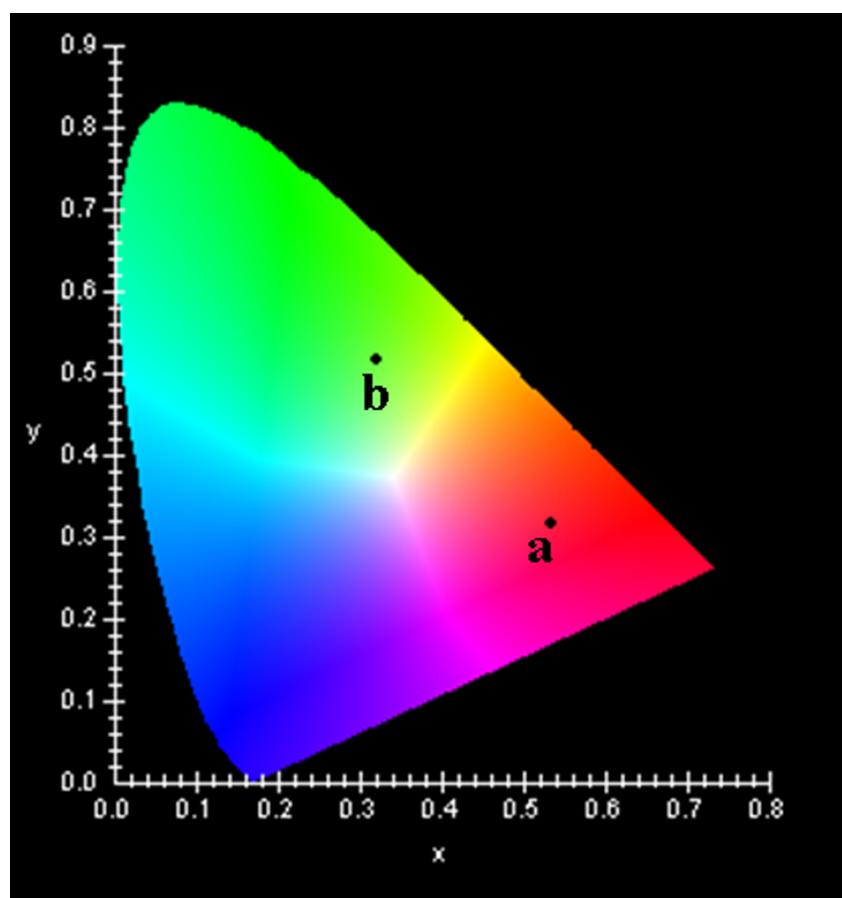


Figure S2. CIE (1931) (x, y) chromaticity diagram showing the emission color coordinates of Eu-dpa-Si-MSNs (a) and Tb-dpa-Si-MSNs (b).

Table S1. The chromaticity coordination of Eu-dpa-Si-MSNs and Tb-dpa-Si-MSNs after heat treatment with excitation wavelengths varied from 254 to 374 nm (the step is 10 nm).

λ_{ex}	Eu-dpa-Si-MSNs		Tb-dpa-Si-MSNs	
	x	y	x	y
244	0.3378	0.3672	0.3200	0.3811
254	0.3475	0.3779	0.3287	0.3869
264	0.3567	0.3875	0.3381	0.3963
274	0.3640	0.3947	0.3453	0.4045
284	0.3687	0.3984	0.3496	0.4065
294	0.3718	0.4011	0.3516	0.4054
304	0.3717	0.4004	0.3522	0.4050
314	0.3713	0.3984	0.3525	0.4037
324	0.3705	0.397	0.3486	0.3968
334	0.3670	0.3918	0.3463	0.3932
344	0.3630	0.3872	0.3424	0.3552
354	0.3593	0.3832	0.3382	0.3789
364	0.3549	0.3808	0.3343	0.3744