

**Fig. S1** IR spectra for TTA (solid line), TTASi (dash line) and functionalized hybrid mesoporous material TTASi-SBA-15 (dot line)

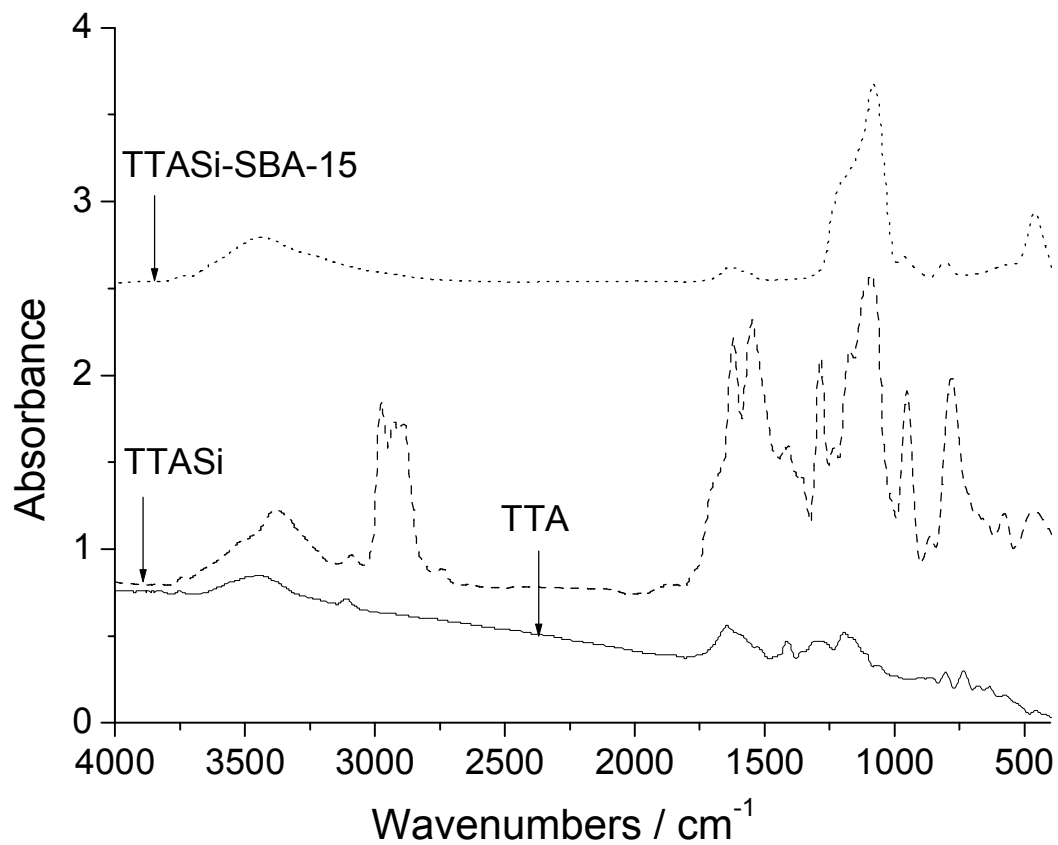


Fig. S2 UV absorption spectra for TTA (solid line), TTASi (dash line) and TTASi-SBA-15 (dot line)

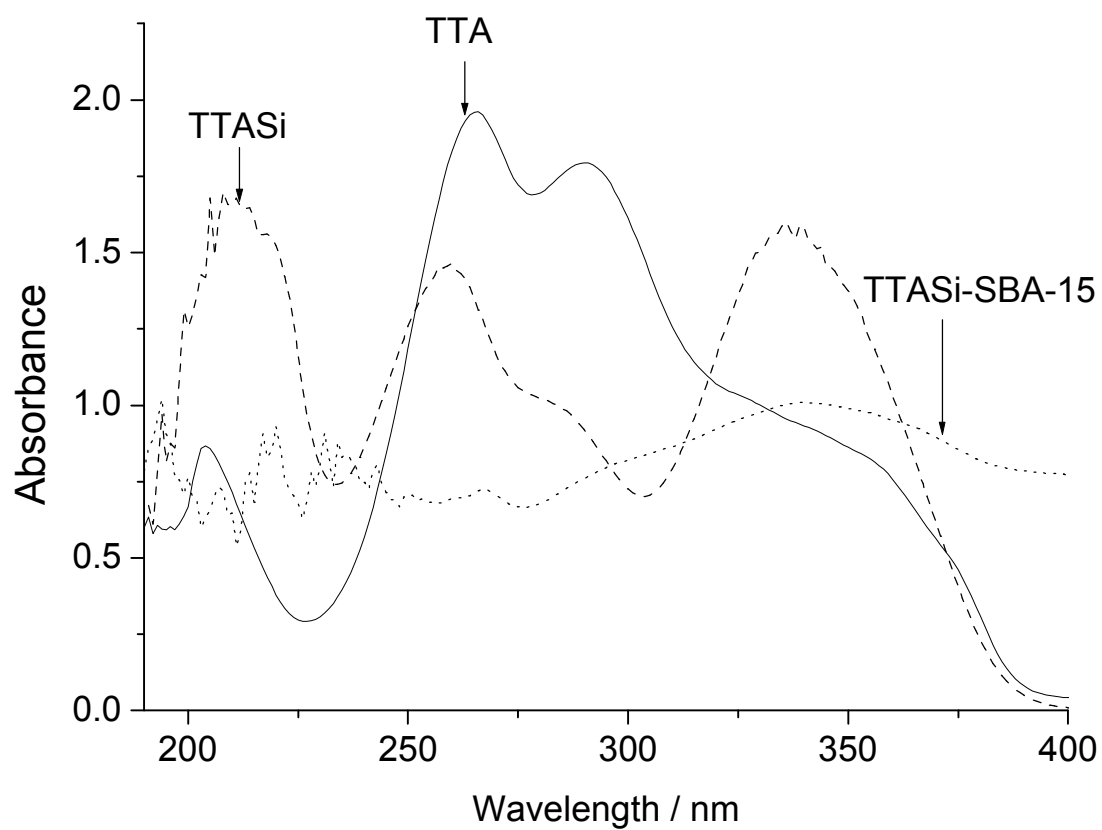


Fig. S3 The TGA curves of  $\text{Eu}(\text{TfABr-SBA-15})_3\text{phen}$  (a) and the pure complex  $\text{Eu}(\text{TTA})_3\text{phen}$  (b)

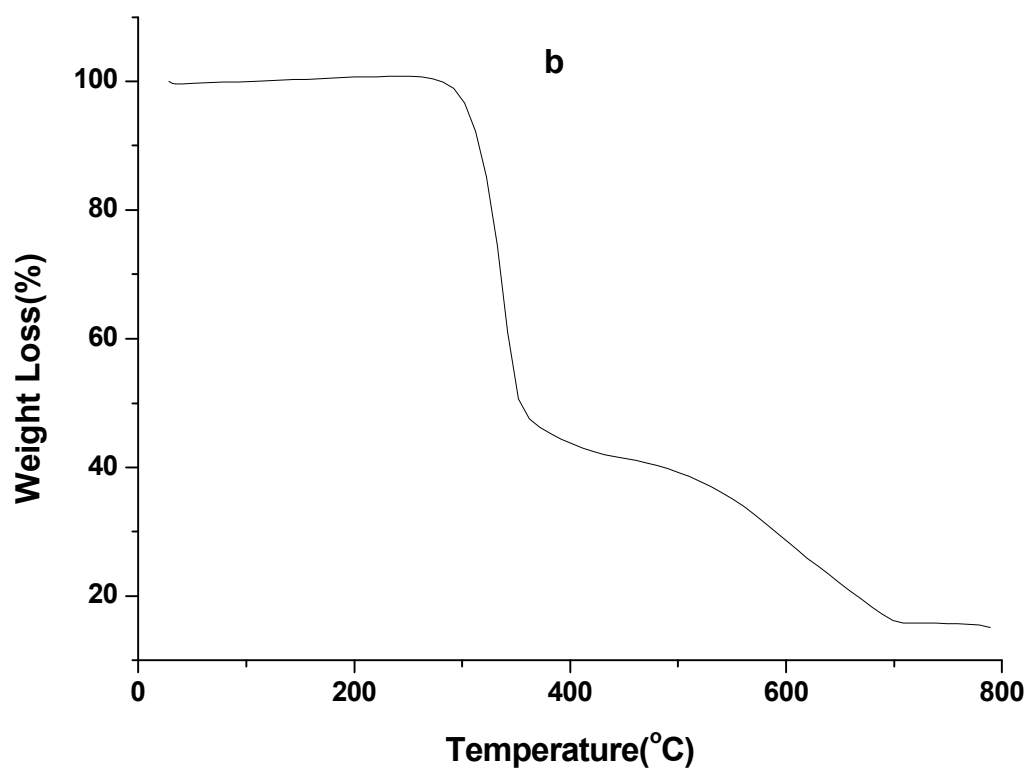
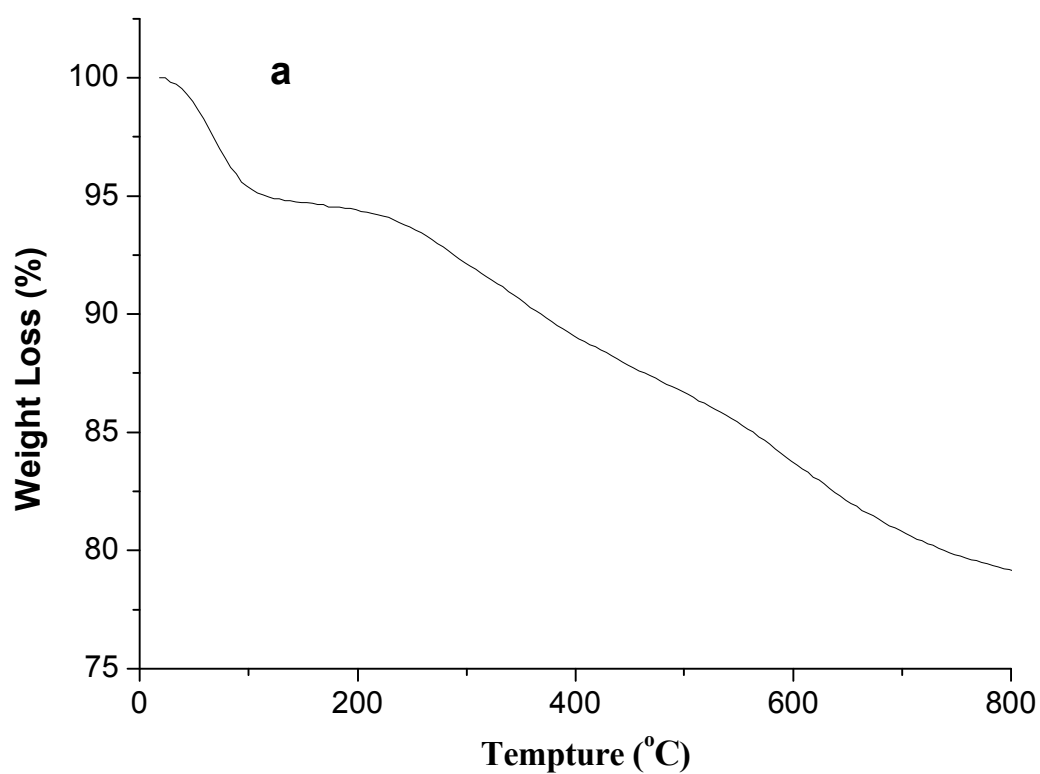
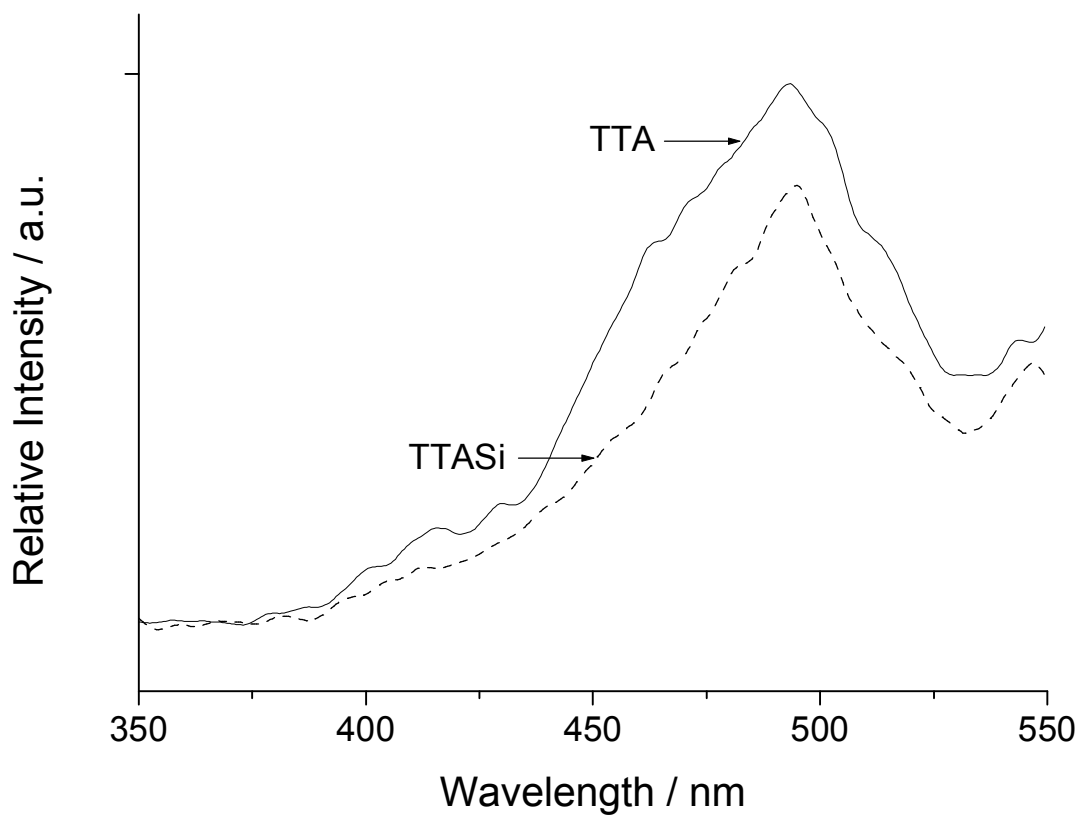


Fig. S4 Phosphorescence spectra of TTA (solid line) and TTASi (dashed line)



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**Fig. S5** The fluorescence decay curves of  $\text{Eu}(\text{TTASi-SBA-15})_3\text{phen}$  and  $\text{Eu}(\text{TTASi-SBA-15})_3$

