

Supporting information

on

Visible and Near-infrared Luminescent Mesoporous Titania Microspheres Functionalized with Lanthanide Complexes: Microstructure and Luminescence with Visible Excitation

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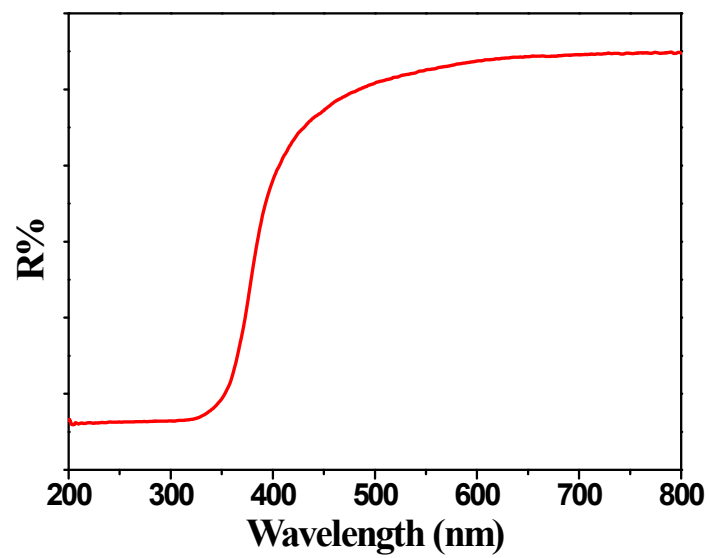


Figure S1. DR spectrum of the parent MTM.

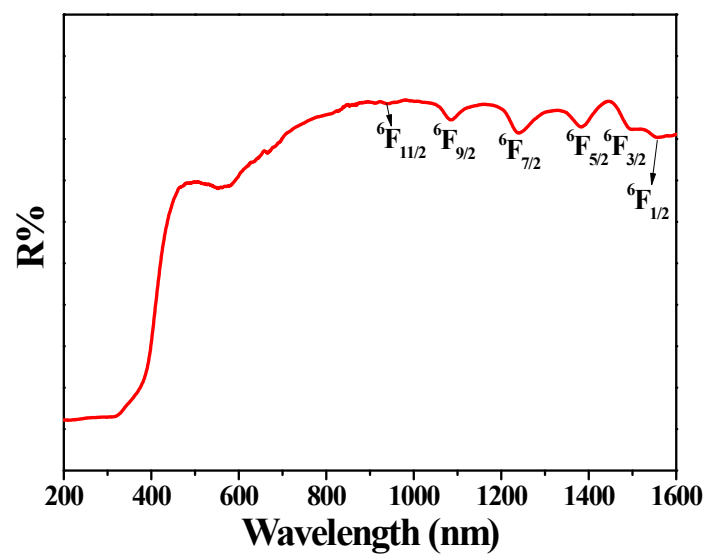


Figure S2. DR spectrum of Sm(dbm)₃bpdc-MTM sample.

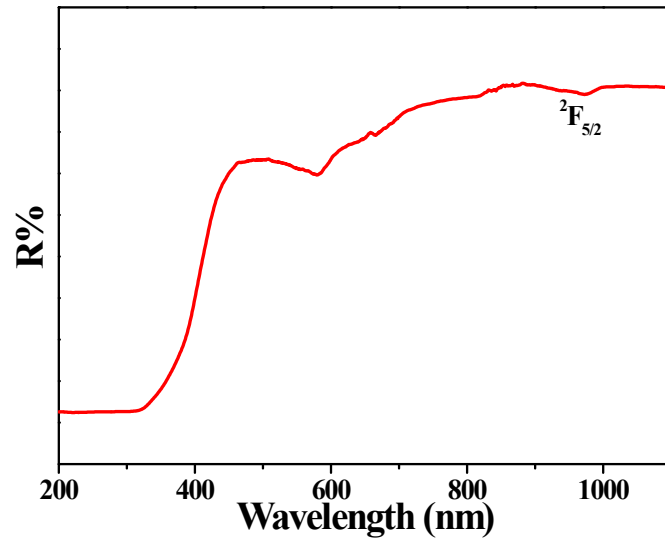


Figure S3. DR spectrum of $\text{Yb}(\text{dbm})_3\text{bpdC}$ -MTM sample.

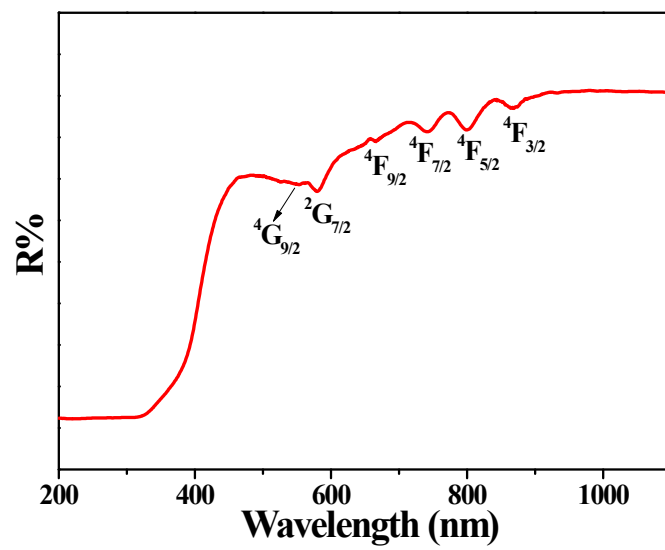


Figure S4. DR spectrum of Nd(dbm)₃bpdc-MTM sample.

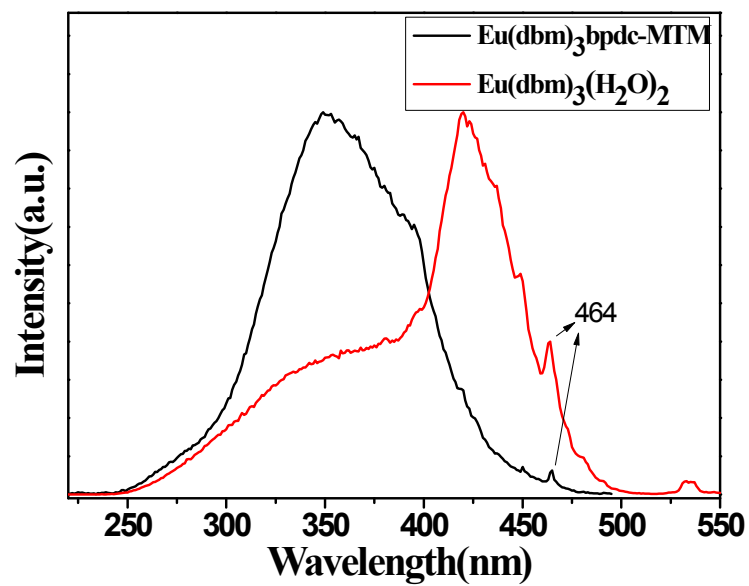


Figure S5. Excitation spectra of the $\text{Eu}(\text{dbm})_3\text{bpdc-MTM}$ material ($\lambda_{\text{em}} = 613 \text{ nm}$) and $\text{Eu}(\text{dbm})_3(\text{H}_2\text{O})_2$ complex ($\lambda_{\text{em}} = 614 \text{ nm}$).

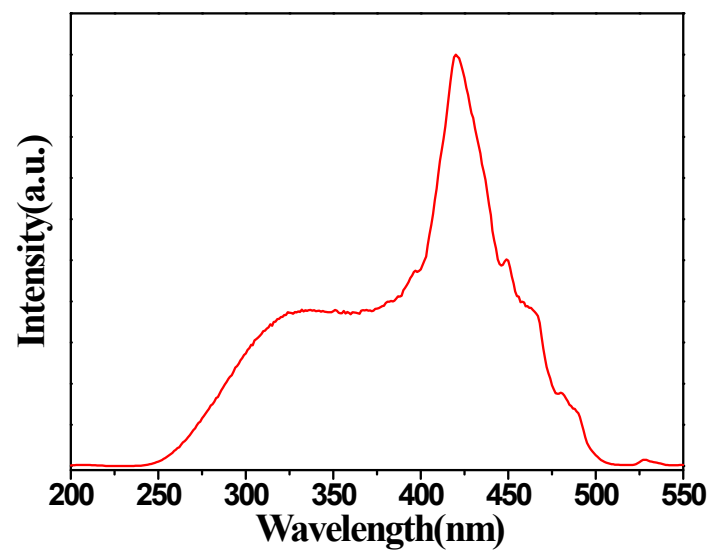


Figure S6. Excitation spectrum of the Sm(dbm)₃(H₂O)₂ complex ($\lambda_{em} = 648$ nm).

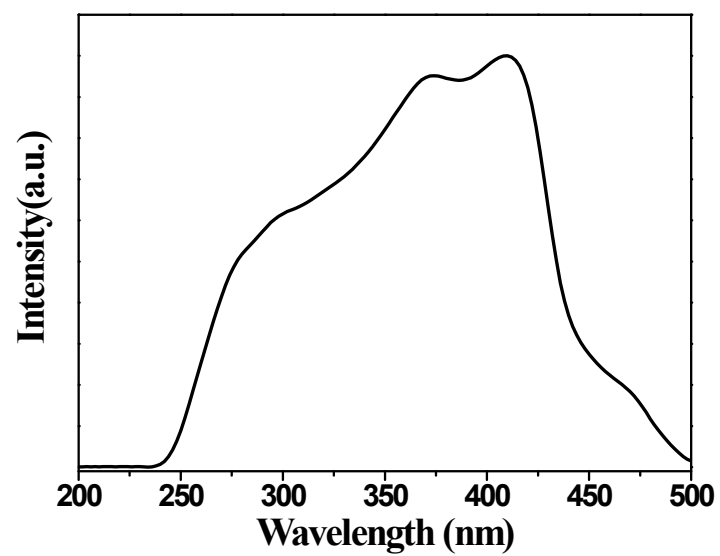


Figure S7. Excitation spectrum of the Yb(dbm)₃(H₂O)₂ complex ($\lambda_{\text{em}} = 980$ nm).

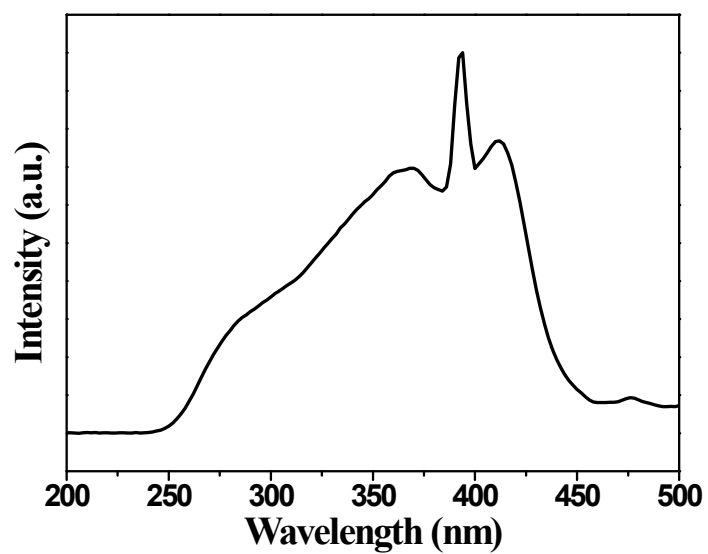


Figure S8. Excitation spectrum of the Nd(dbm)₃(H₂O)₂ complex ($\lambda_{em} = 1065$ nm).

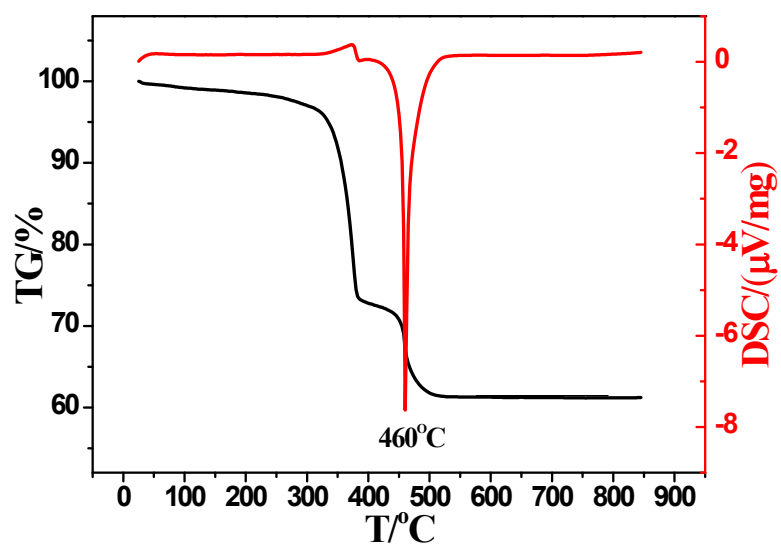


Figure S9. The TG and DSC curves of the $\text{Eu}(\text{dbm})_3\text{bpdC-MTM}$ sample.

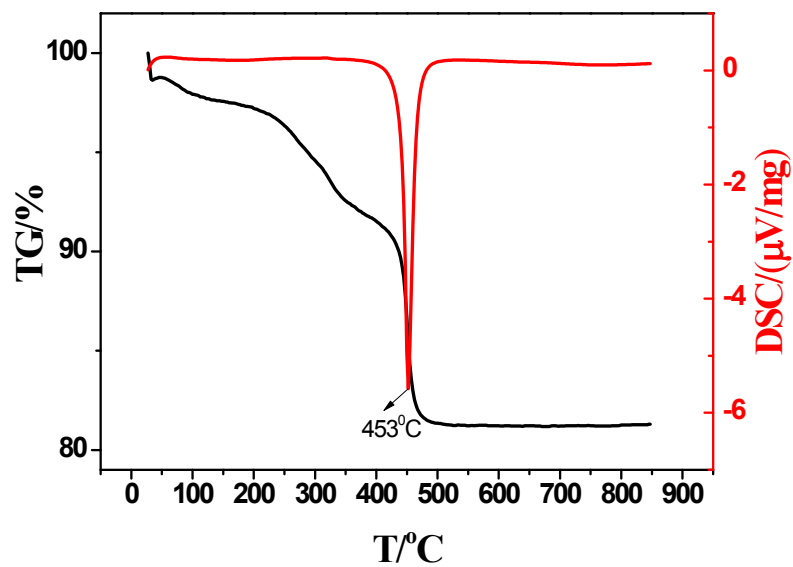


Figure S10. The TG and DSC curves of the $\text{Sm}(\text{dbm})_3\text{bpdc}$ -MTM sample.

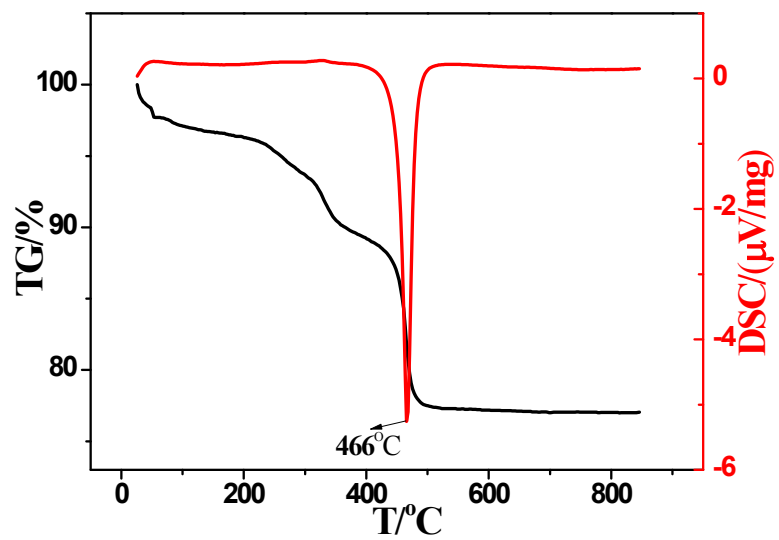


Figure S11. The TG and DSC curves of the $\text{Yb}(\text{dbm})_3\text{bpdc-MTM}$