Electronic Supplementary Material (ESI) for Journal of Materials Chemistry

Supporting information on

Near-infrared luminescence of periodic mesoporous organosilicas grafting with lanthanide complexes based on visible-light sensitization

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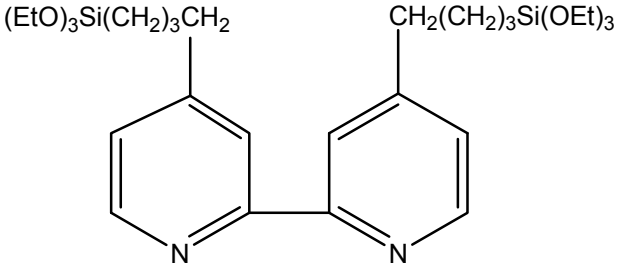
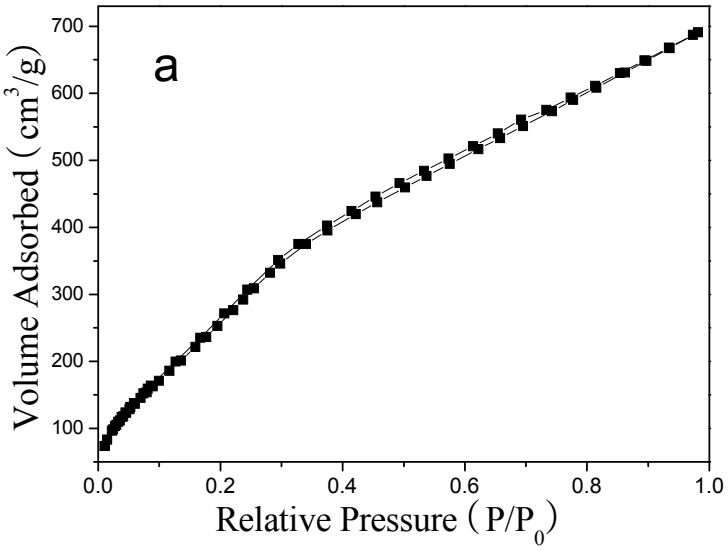


Fig. S1. Molecular structure of the dual-functional ligand bpd-Si.



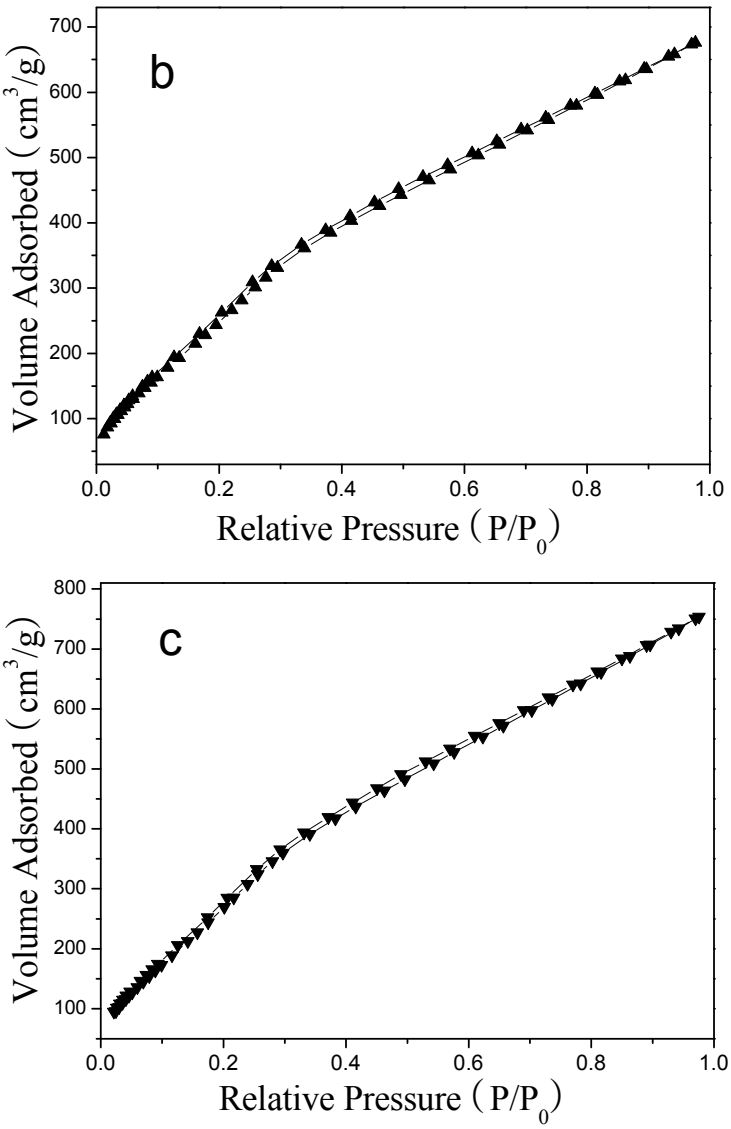


Fig. S2. N_2 adsorption-desorption isotherms of $Er(dbm)_3bpd$-PMO (a), $Yb(dbm)_3bpd$-PMO (b), $Nd(dbm)_3bpd$-PMO (c).

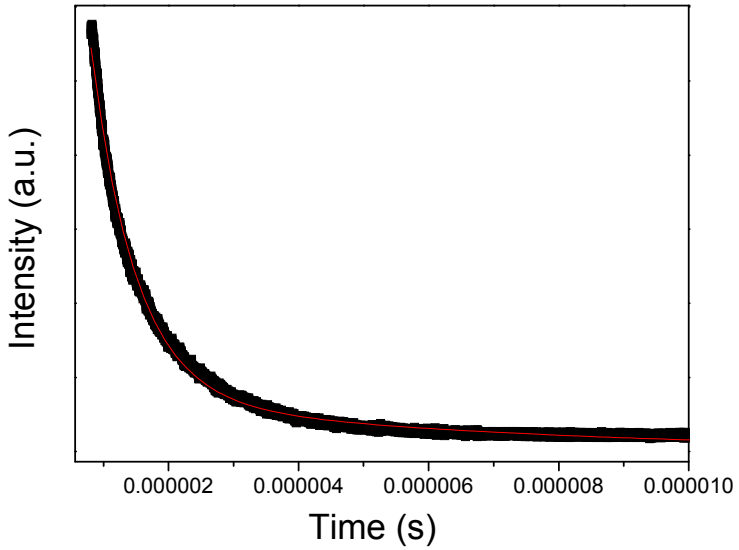


Fig. S3. The decay curve of the $Er(dbm)_3bpd$-PMO, which corresponds to a double-exponential function (λ_{exc} = 355 nm, λ_{em} = 1533 nm).

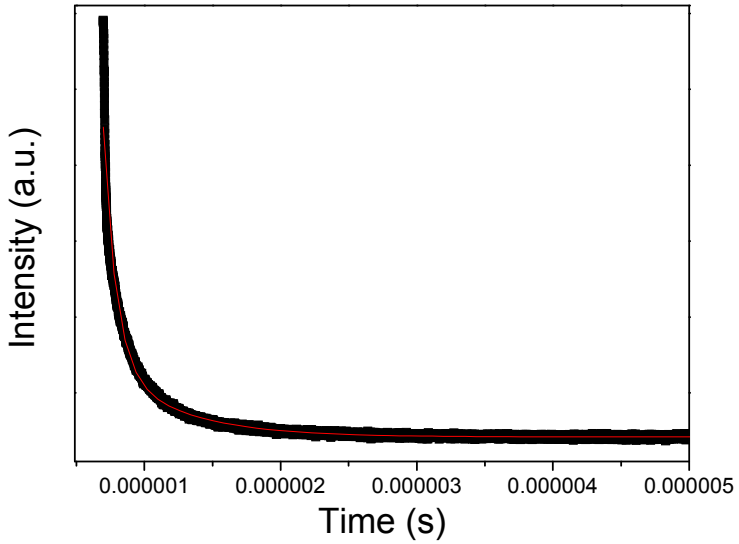


Fig. S4. The luminescence decay of the $Nd(dbm)_3bpd$-PMO to demonstrate the double exponentiality of the decay (λ_{exc} = 355 nm, λ_{em} = 1062 nm).

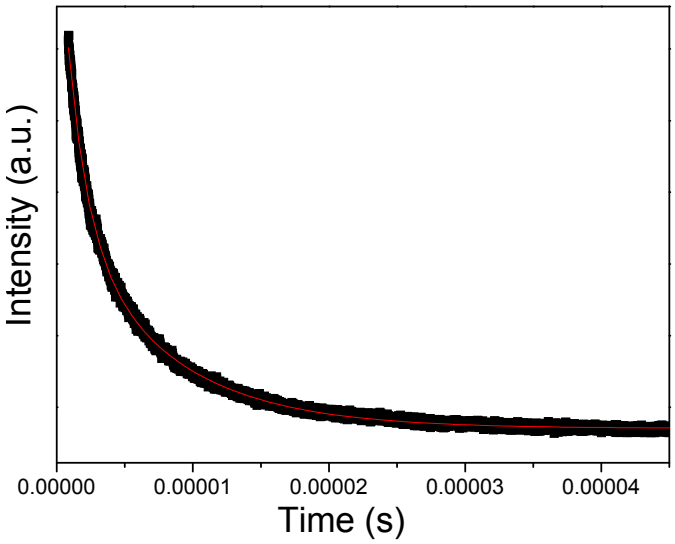


Fig. S5. The decay curve of the $Yb(dbm)_3bpd$-PMO, which corresponds to a double-exponential function (λ_{exc} = 355 nm, λ_{em} = 980 nm).