Delaminated Layered Rare-Earth Hydroxide Composites with Ortho-Coumaric Acid: Color-tunable Luminescence and Blue Emission due to Energy Transfer

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Fig. S1 Photoluminescence excitation spectra: (A) precursors of Cl-LTbH (a), CMA-Na (b), and OS$_{0.9}$CMA$_{0.1}$-LTbH composite (c). (B) OS$_{0.7}$CMA$_{0.3}$-LTb$_y$Y$_{1-y}$H composite: $y = 1$ (a), $y = 0.7$ (b), $y = 0.3$ (c), $y = 0$ (d).
Fig. S2 Photoluminescence emission spectra of Gd(III) complex of CMA (Gd-CMA) under 240 nm excitation at room temperature.

Fig. S3 (A) Photoluminescence excitation spectra of samples in FM: CMA-Na (a) and composites OS\textsubscript{x}CMA\textsubscript{1-x}\textsubscript{}-LTbH: x = 0.9 (b), 0.8 (c), 0.7 (d), 0.6 (e), 0.5 (f). (B) Excitation spectra of composites OS\textsubscript{0.7}CMA\textsubscript{0.3}-LTb\textsubscript{y}Y\textsubscript{1.3}H in FM: y = 1.0 (a), 0.9 (b), 0.7 (c), 0.5 (d), 0.3 (e), 0.1 (f), and 0 (g).
**Fig. S4** Phosphorescence spectrum of Gd(III) complex of CMA (Gd-CMA) in a methanol solution (77 K).