

## Electronic Supplementary Information (ESI)

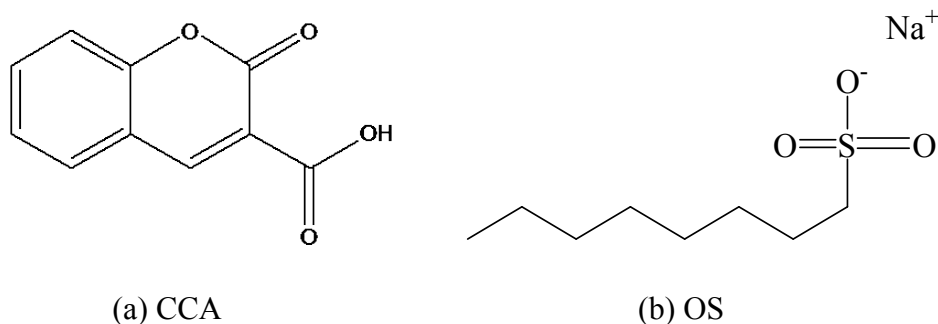
### Enhanced luminescence of delaminated layered europium hydroxide (LEuH) composites with sensitizer anions of coumarin-3-carboxylic acid

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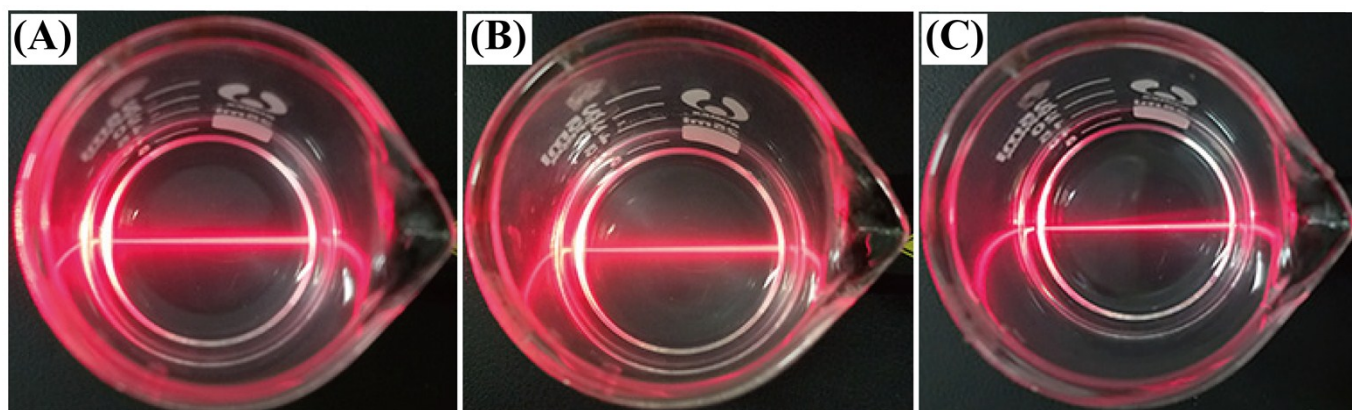
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Normal University, Beijing 100875, China. Fax: 86 10 5880 2075; Tel: 86 10 5880 7524; E-mail:

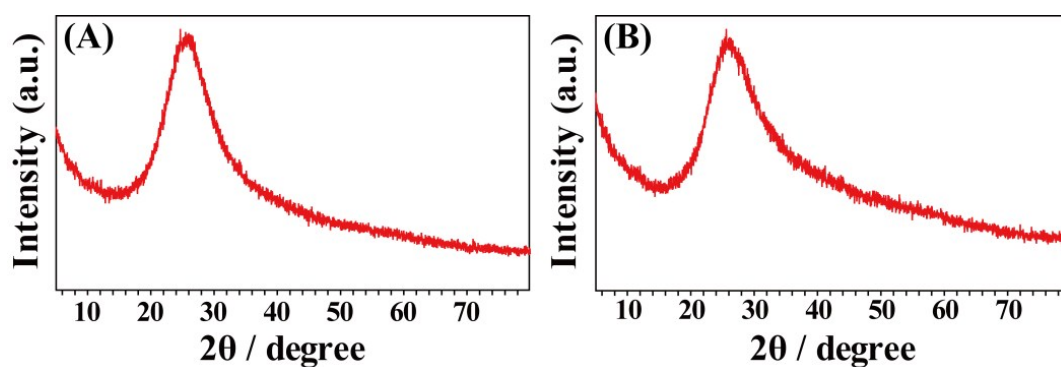
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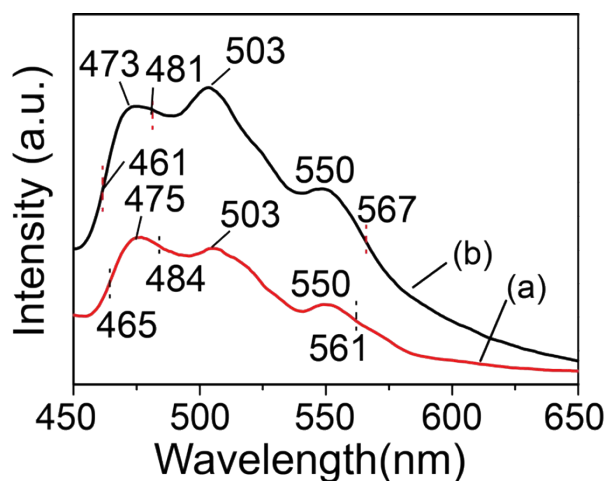
**Scheme S1.** Structures of the organic compounds of CCA and OS.



**Fig. S1** Tyndall light scattering of colloidal suspensions of (A) OS-LEuH, (B) CCA<sub>0.20</sub>OS<sub>0.80</sub>-LEuH-1:1 and (C) CCA<sub>0.02</sub>OS<sub>0.98</sub>-LEuH-1:1 in formamide.



**Fig. S2** XRD patterns of the gluelike sediments after centrifuging the colloidal suspensions of the composites (A) CCA<sub>0.20</sub>OS<sub>0.80</sub>-LEuH-1:1 and (B) CCA<sub>0.02</sub>OS<sub>0.98</sub>-LEuH-1:1 in formamide, respectively.



**Fig. S3** Phosphorescence spectrum of complexes of CCA-Gd (a) and CCA-2Gd (b) in methanol solutions measured at 77 K.