

Supporting information

Lanthanum based coordination polymers microplates using a “green” ligand EDTA with tailorable morphology and fluorescent property

Zhurui Shen,^{*a, d} Sisi He,^a Pengcheng Yao,^a Xun Lao,^a Bin Yang,^c Yejing Dai,^{} Xiaohong Sun^a and Tiehong Chen^b**

- a. Key Laboratory for Advanced Ceramics and Machining Technology of Ministry of Education, Tianjin University & School of material Science and Engineering, Tianjin University, Tianjin 300072, PR China, E-mail: shenzhurui@tju.edu.cn
- b. Key Laboratory of Advanced Energy Materials Chemistry (MOE), College of Chemistry, Nankai University, Tianjin 300071, PR China
- c. Shenyang Branch, Shimadzu (China) Co., LTD.
- d. Jiangsu Province Key Laboratory of Fine Petrochemical

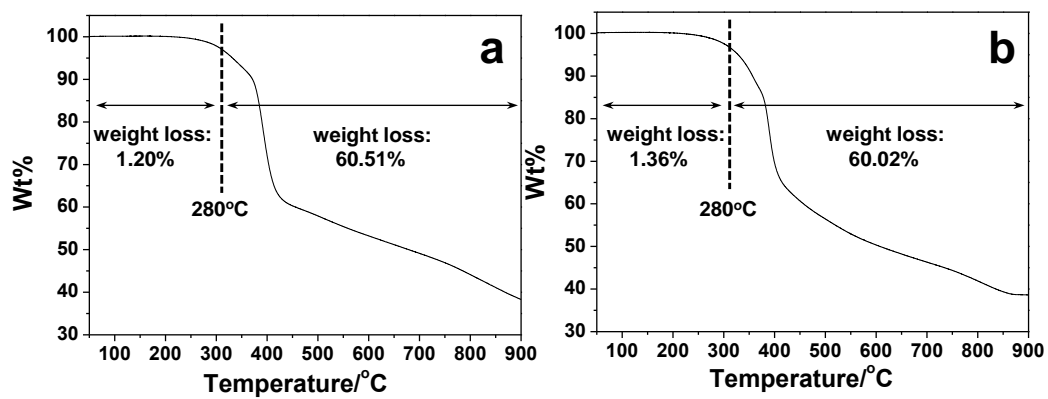


Figure S1. TGA curves of (a) La-EDTA CPs microplates and (b) Ce-EDTA CPs microplates

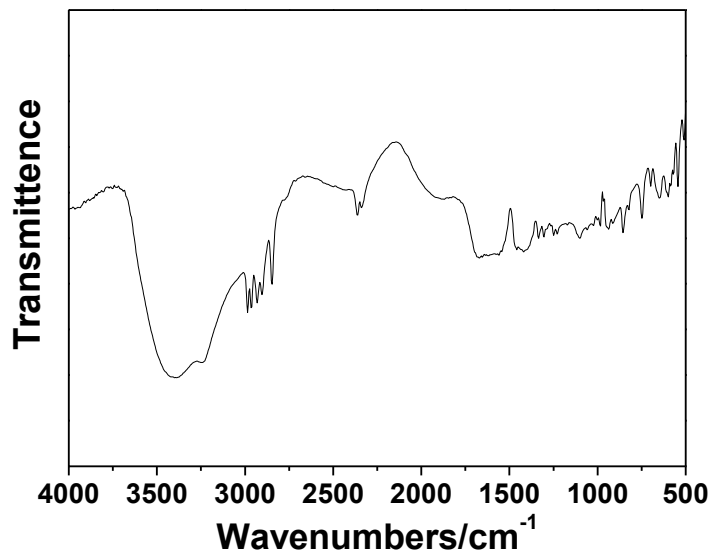


Figure S2. The FT-IR spectrum of Ce-EDTA CPs microplates.

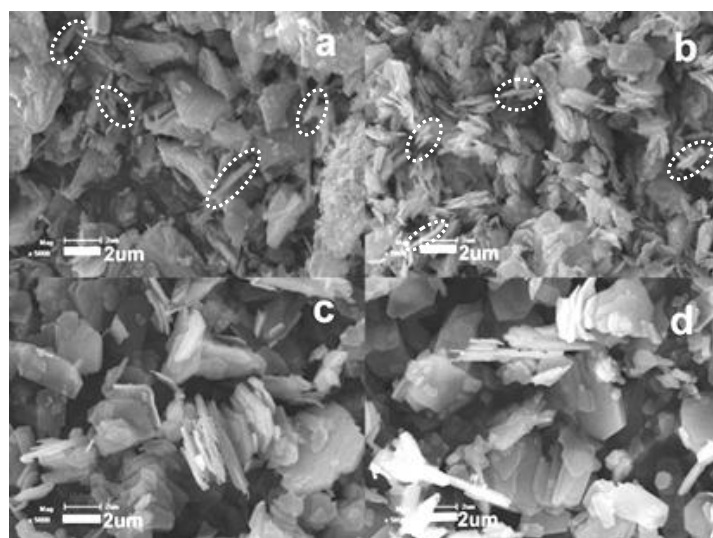


Figure S3. SEM images of La-EDTA CPs obtained (a) without hydrothermal treatment. After (b) 2 h, (c) 8 h and (d) 12 h reaction at 160 °C with the molar ratio of EDTA-2Na: La³⁺=10: 8, and the La³⁺ is 8 mmol. The white circles highlighted some microsticks of CPs.

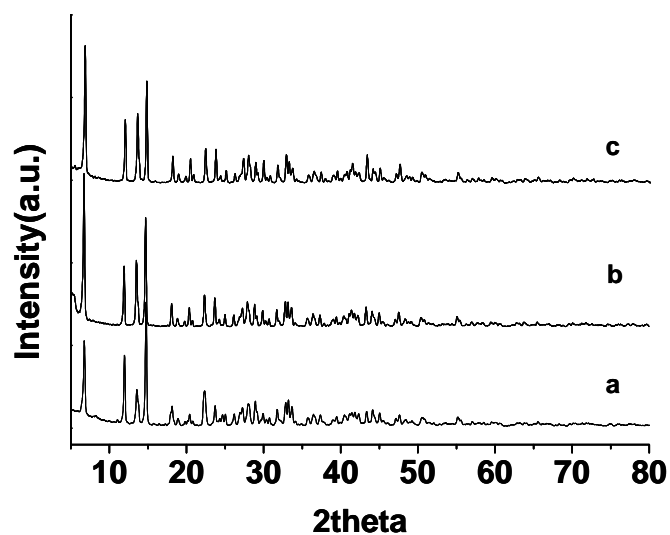


Figure S4. The XRD patterns of La-EDTA CPs obtained after (a) 0 h, (b) 8 h and (c) 12 h, reaction at 160 °C with the molar ratio of EDTA-2Na: La³⁺=10: 8, and the La³⁺ is 8 mmol.