Supporting information

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

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**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: La$^{3+}$=10: 8, and the La$^{3+}$ 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: La$^{3+}$=10: 8, and the La$^{3+}$ is 8 mmol.