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Electronic Supporting Information

Self-produced bubble-template synthesis of La₂O₃:Yb/Er@Au hollow spheres with markedly enhanced luminescence and release properties

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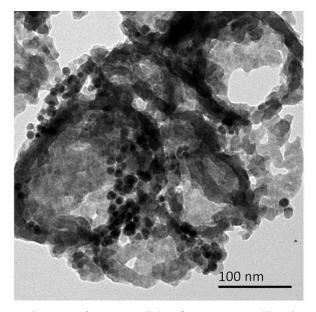


Fig. S1 SEM image of La₂O₃:Yb/Er@Au HMSs dissolved by HCl.

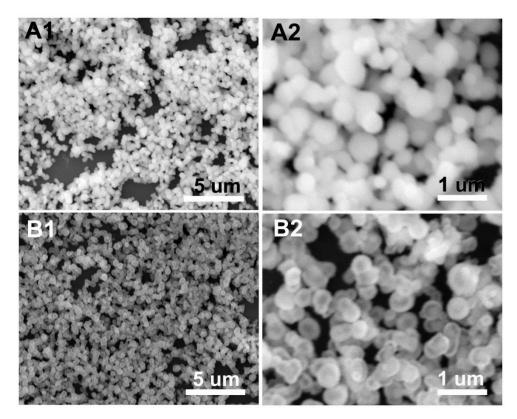


Fig. S2 SEM images of La(OH)₃:Yb/Er prepared at temperatures of 70 °C (A1 and A2), and 90 °C (B1 and B2) with 1 mmol H₃Cit and 2.4 g of NaOH.

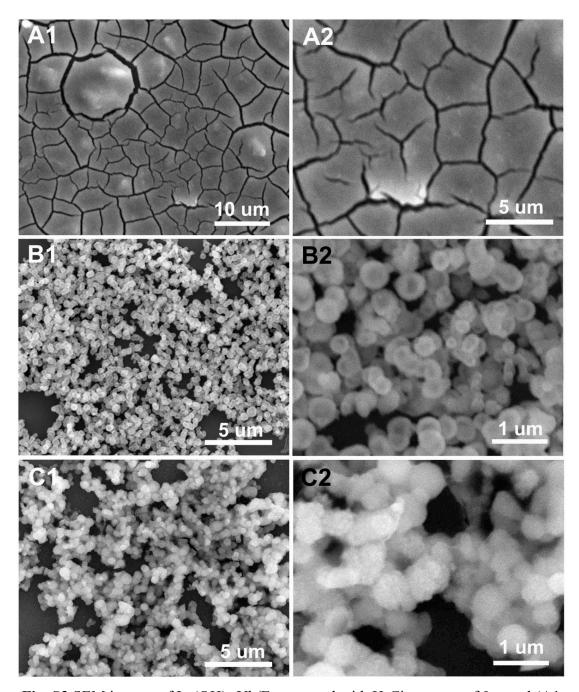


Fig. S3 SEM images of La(OH)₃:Yb/Er prepared with H₃Cit amount of 0 mmol (A1 and A2), 1 mmol (B1 and B2), and 2 mmol (C1 and C2) at 90 °C with 2.4 g of NaOH.

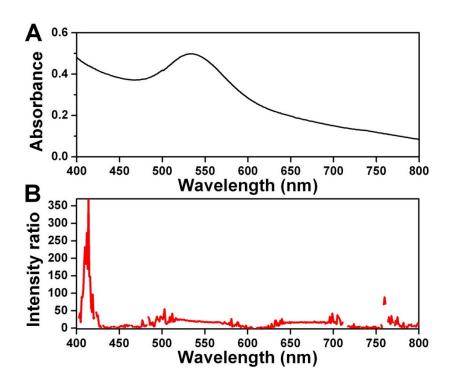


Fig. S4 UV-vis spectra of ANs (A) and the intensity ratio (B) between the AHMSs and LHMSs

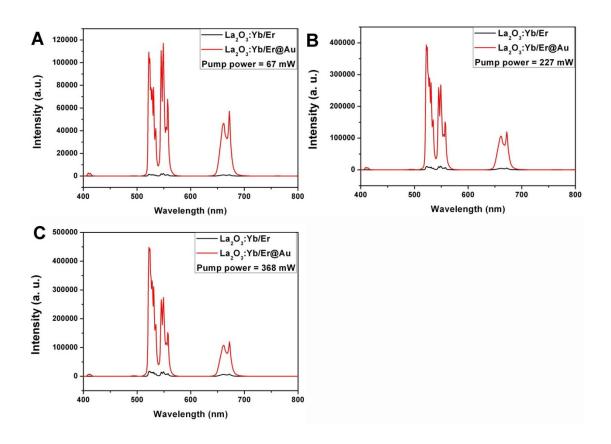


Fig. S5 The UC emission spectra of LHMSs and AHMSs under the pump power of 67 mW (A), 227 mW (B), and 368 mW.



Fig. S6 The photograph of the La_2O_3 :Yb/Er@Au sample dispersed in the deionized water under the daylight.