

Supporting Information

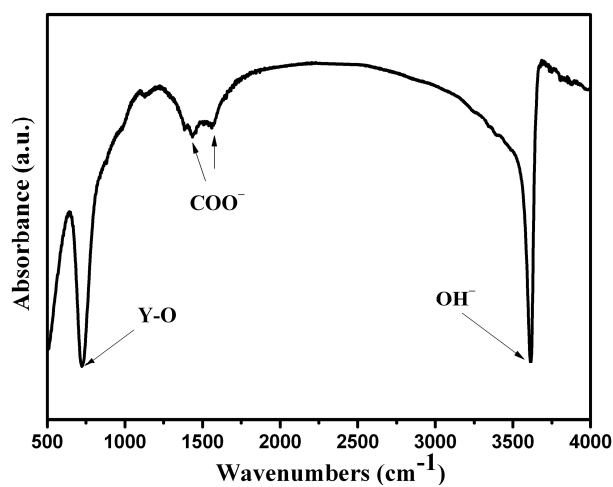


Fig. S1 IR spectrum of the $\text{Y}(\text{OH})_3$ nanosheets obtained at 2 h.

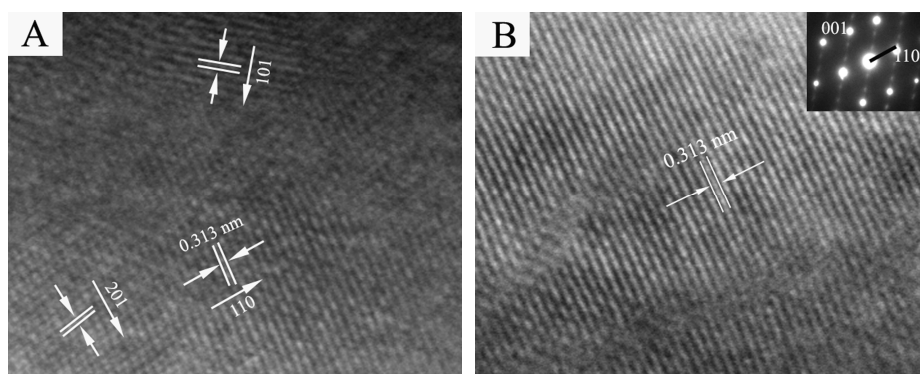


Fig. S2 HRTEM images of products obtained at different time: A 10 h, B 24 h, inset is SAED pattern of the product.

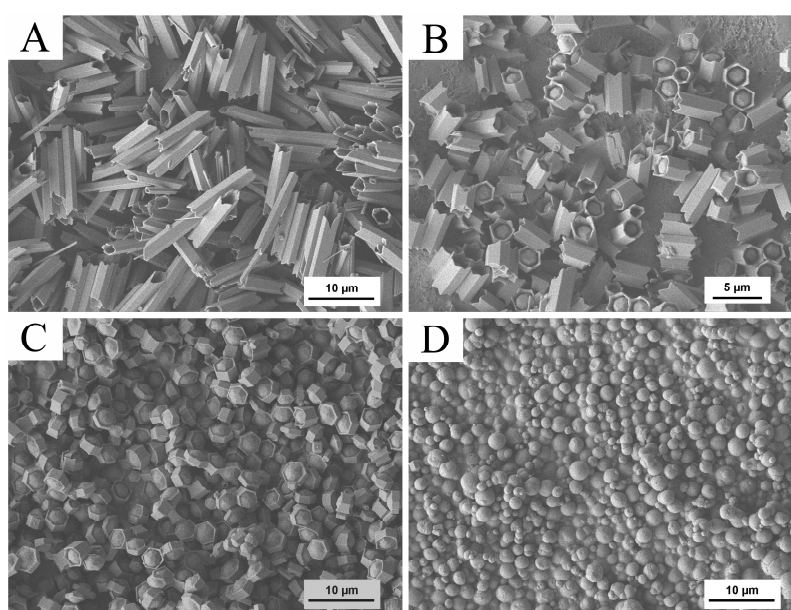


Fig. S3 SEM images of $\text{Y}(\text{OH})_3:\text{Eu}^{3+}$ obtained with different sodium citrate

concentration: (A) 0.01, (B) 0.016, (C) 0.021, (D) 0.13 M.

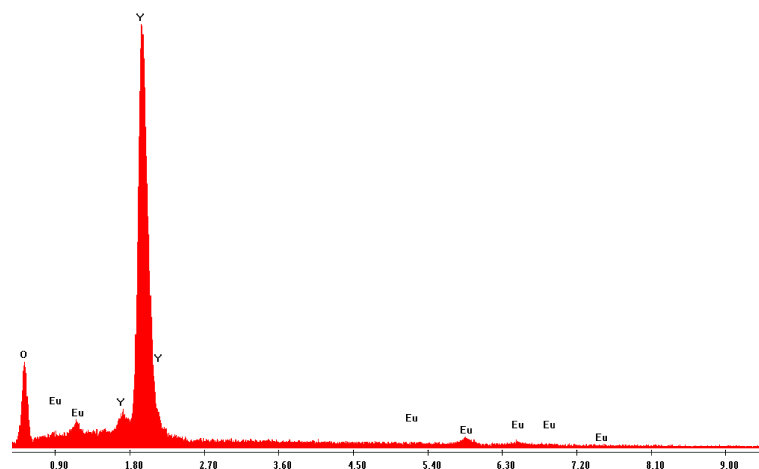


Fig. S4 A typical EDS pattern of the $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$ HTEPs.

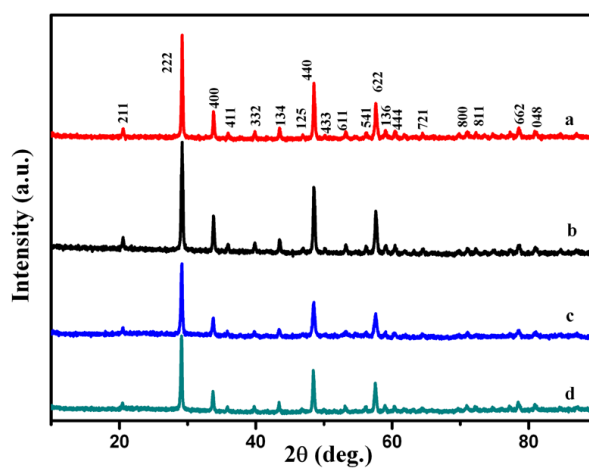


Fig. S5 XRD patterns of as-synthesized $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$ microstructures: (a) HTEPs, (b) LHTEPs, (c) SHTEPs, (d) micro-spheres.