Electronic Supplementary Information

Controlling Growth of Porphyrin Based Nanostructures for Tuning Third-order NLO Properties

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Caption of Content

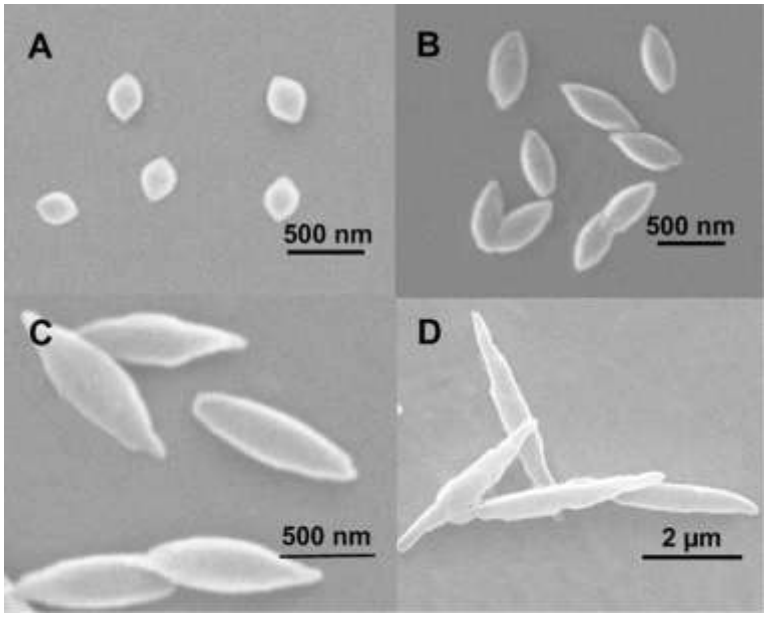

Fig. S1 SEM image of the shape and size evolution process of the nanostructures obtained by adding SDS aqueous solution with concentration of (A) 0.01, (B) 0.05, (C) 0.15, and (D) 0.45 mg/ml with $(H_6TPyP)^{4+}$ (0.30 mg/ml).

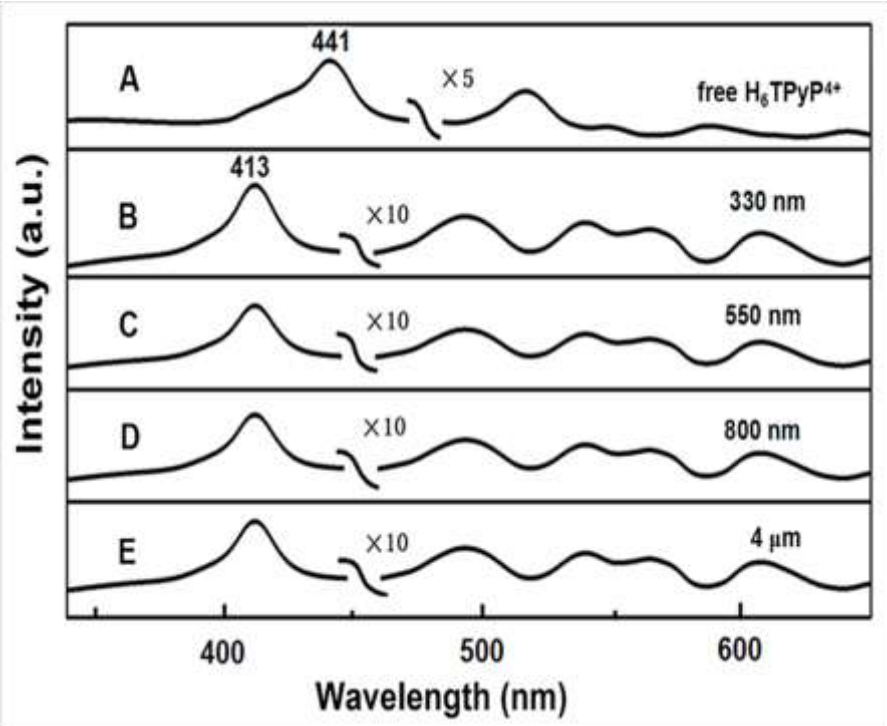

Fig. S2 Electronic absorption spectra of (A) H_6TPyP^{4+} in water and the nanostructures with the long axis length of 330 nm (B), 550 nm (C), 800 nm (D), and 4 μm (E) deposited on quartz substrate.

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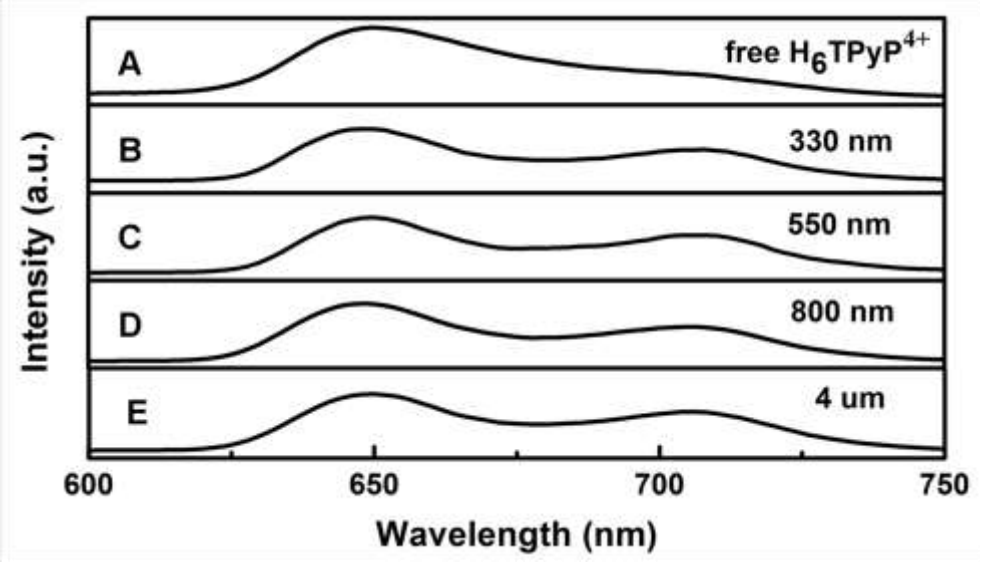

Fig. S3 The CLSM fluorescence spectra of (A) H_6TPyP^{4+} in water and the nanostructures with the long axis length of 330 nm (B), 550 nm (C), 800 nm (D), and 4 μm (E) deposited on quartz substrate with an excitation wavelength of 430 and 405 nm for solution and nanostructure sample, respectively.