

Self-Assembled Core-Shell Nanospheres and Dendritic Nanostructure of Novel Tetra-(3-phenyprop-2-allyloxy) phthalocyanine in Different Solvents

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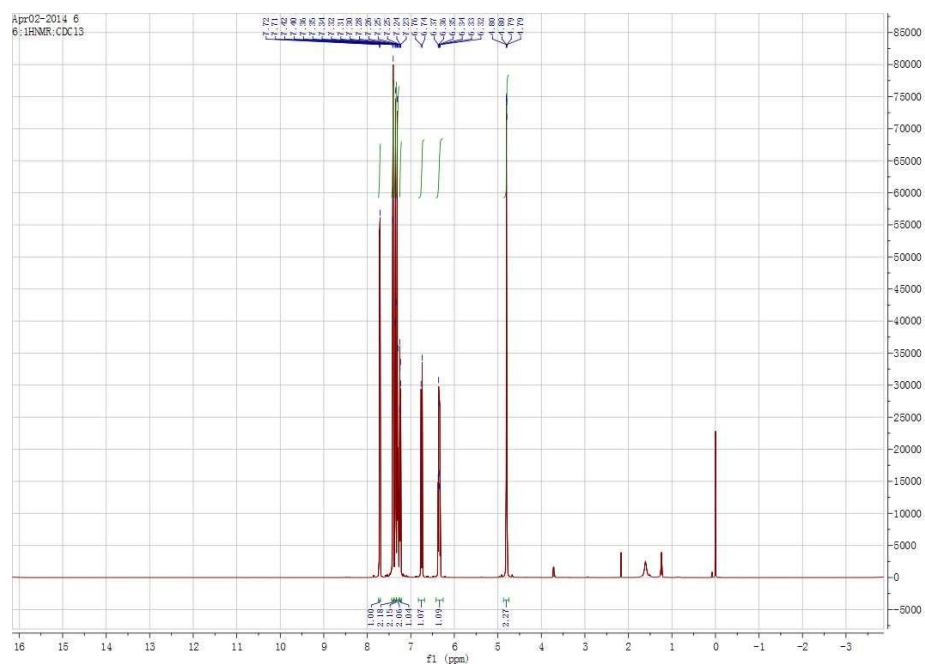


Fig .S1 ^1H NMR spectrum of compound 3

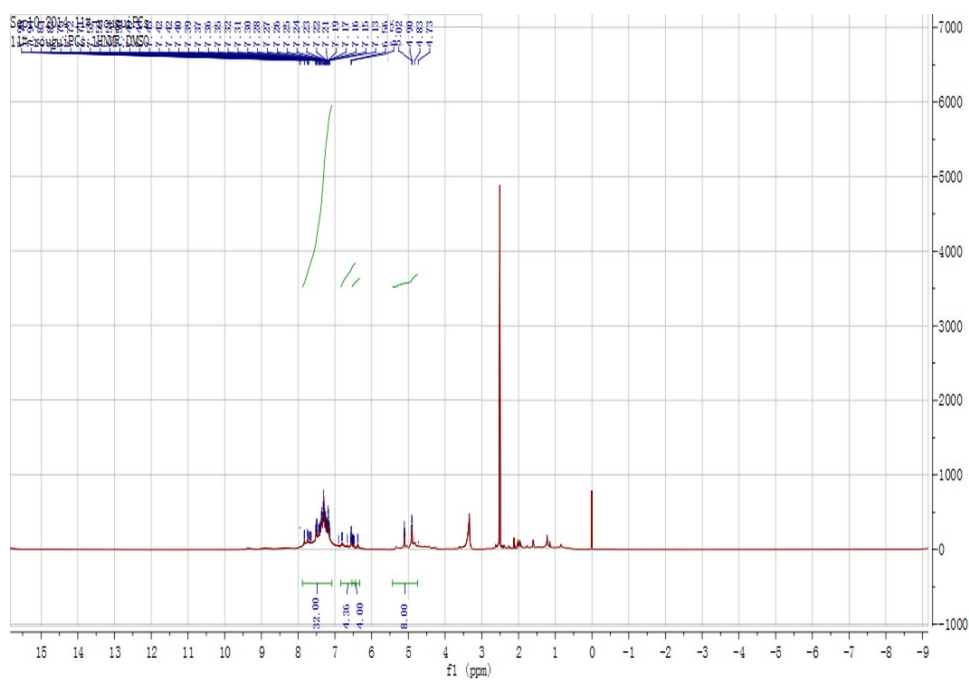


Fig. S2 ^1H NMR spectrum of compound 4

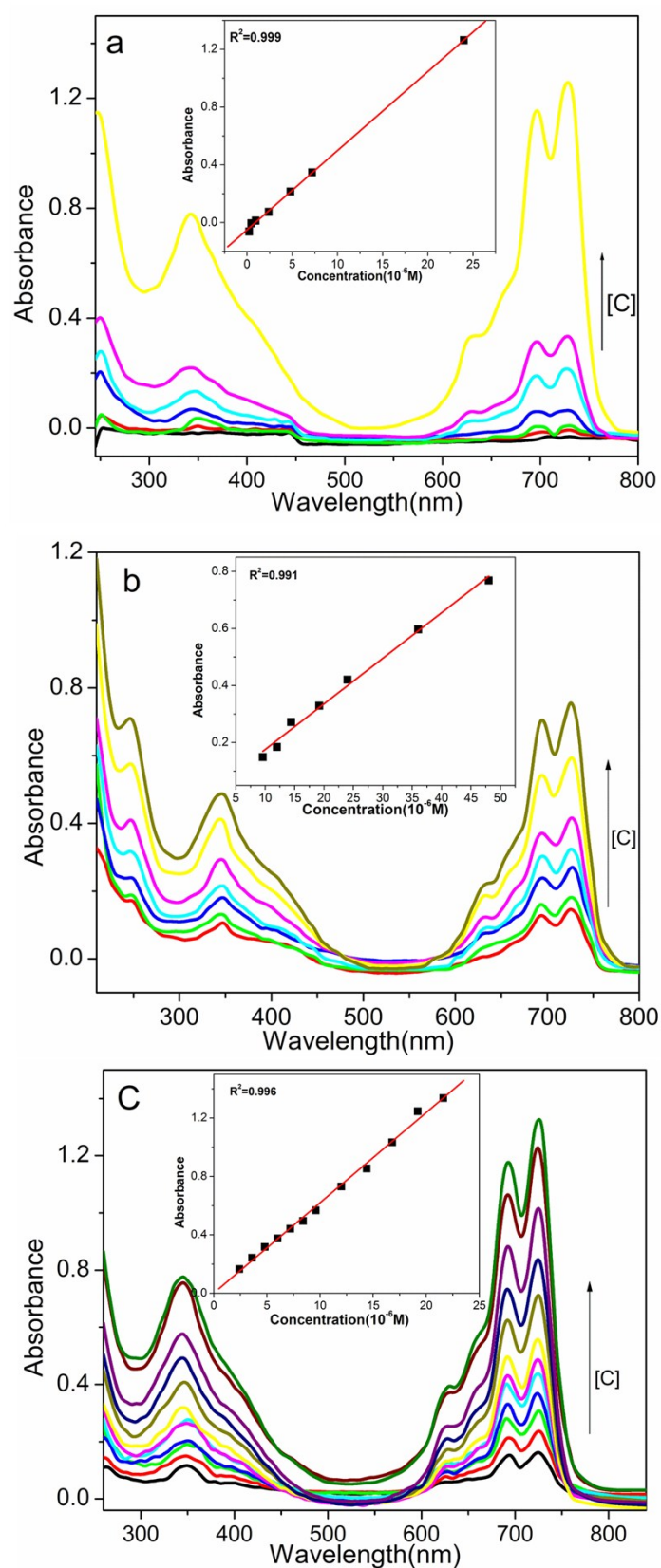


Fig.S3 Absorption spectra changes of TPAO-Pc in dichloromethane (a), ethanol (b) and ethyl acetate (c) at different concentrations: 2.4×10^{-6} (A), 3.6×10^{-6} (B), 4.8×10^{-6} (C), 6.0×10^{-6} (D), 7.2×10^{-6} (E), 8.4×10^{-6} (F), 9.6×10^{-6} (G), 12×10^{-6} (H), 14.4×10^{-6} (I), 16.8×10^{-6} (J), 19.2×10^{-6} (K), 21.6×10^{-6} M (L). (Insets: Plot of absorbance versus concentration in Q-band.)

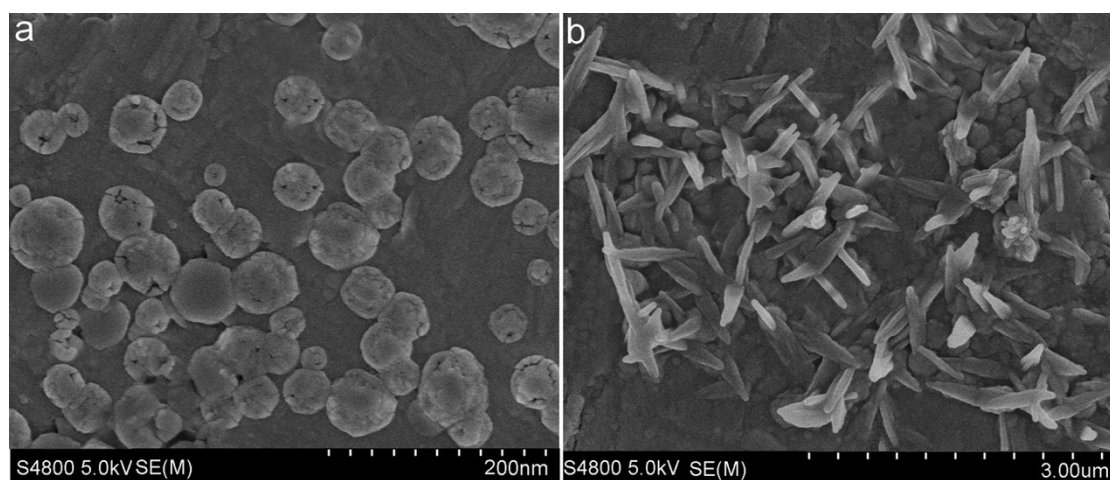


Fig. S4 SEM images of the morphologies self-assembled from DMSO/water (a) and acetone/water (b) after 12 h.

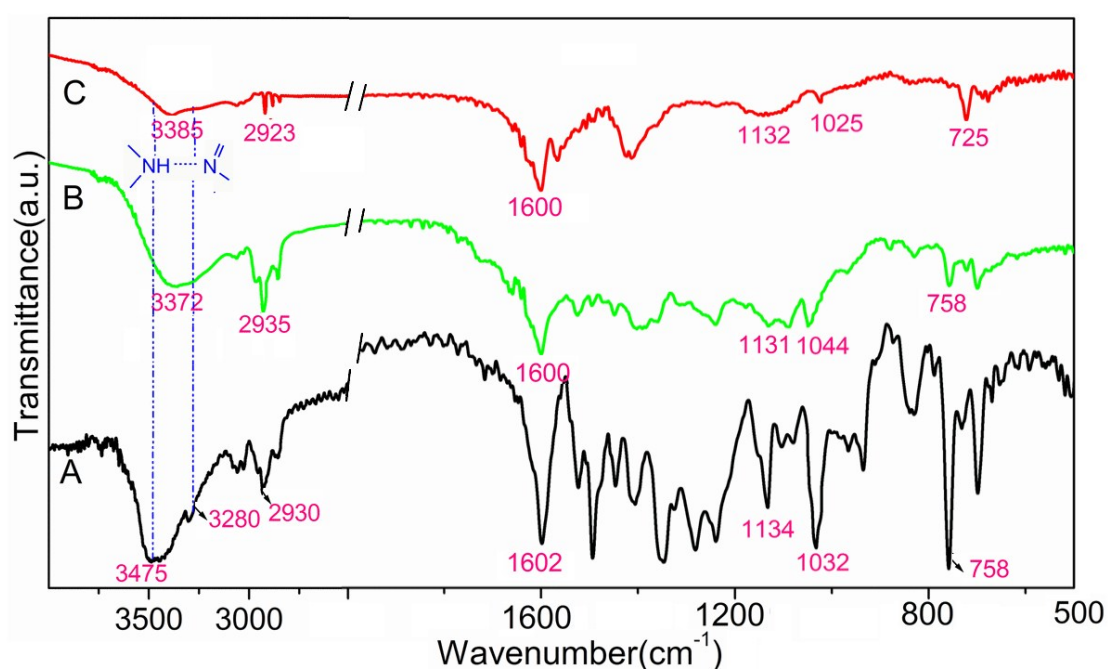


Fig. S5 FT-IR spectra of TPAO-Pc (A), aggregates of TPAO-Pc with dendritic morphology formed in acetone/water (B) and core-shell nanospheres morphology formed in DMSO/water (C) in the region 500-2000 cm^{-1} and 2500-4000 cm^{-1} with 2cm^{-1} resolution.