

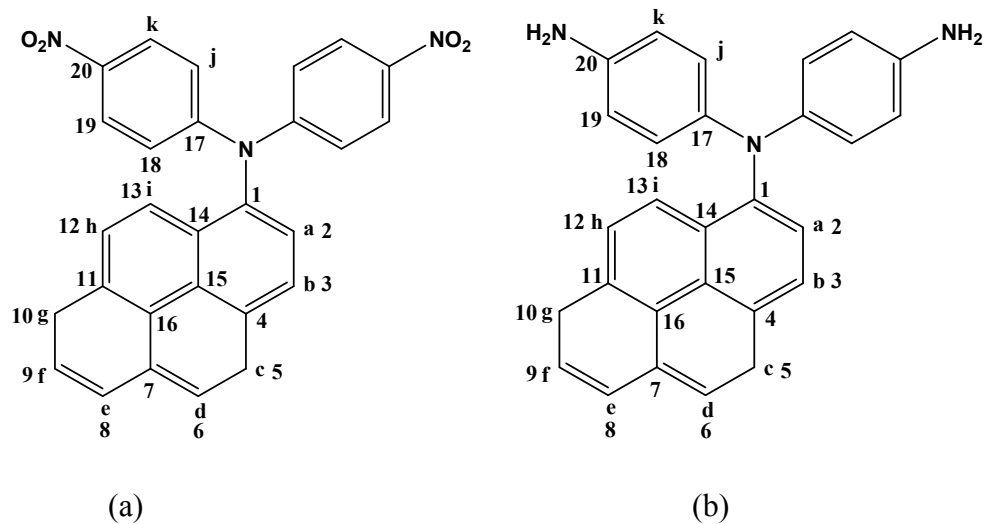
Supporting Information for

Diphenylpyrenylamine-Functionalized Polypeptides: Secondary Structures, Aggregation-Induced Emission, and Carbon Nanotube Dispersibility

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Scheme S1. NMR spectral peak assignments of (a) pyrene-DPA-2NO₂ and (b) pyrene-DPA-2NH₂.

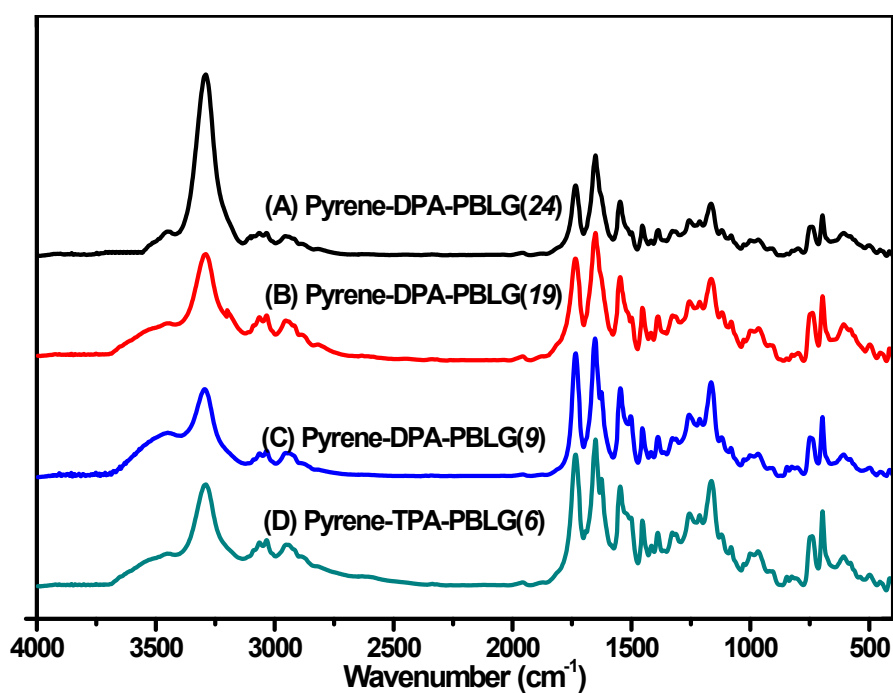


Figure S1. FTIR spectra of (A) pyrene-DPA-PBLG(24), (B) pyrene-DPA-PBLG(19), (C) pyrene-DPA-PBLG(9), and (D) pyrene-DPA-PBLG(6), recorded at room temperature.

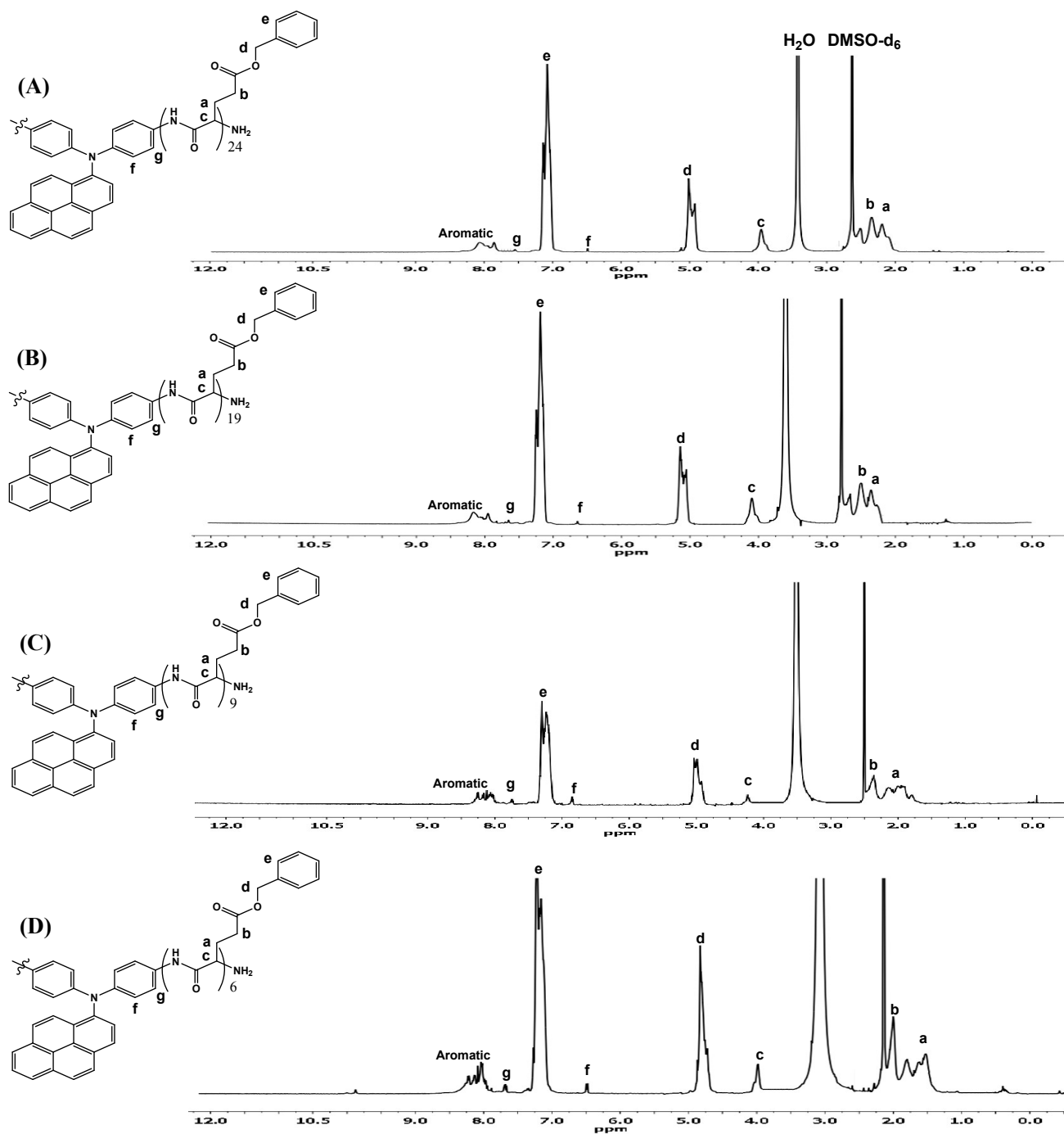


Figure S2. ^1H NMR spectra of (A) pyrene-DPA-PBLG(24), (B) pyrene-DPA-PBLG(19), (C) pyrene-DPA-PBLG(9), and (D) pyrene-DPA-PBLG(6).

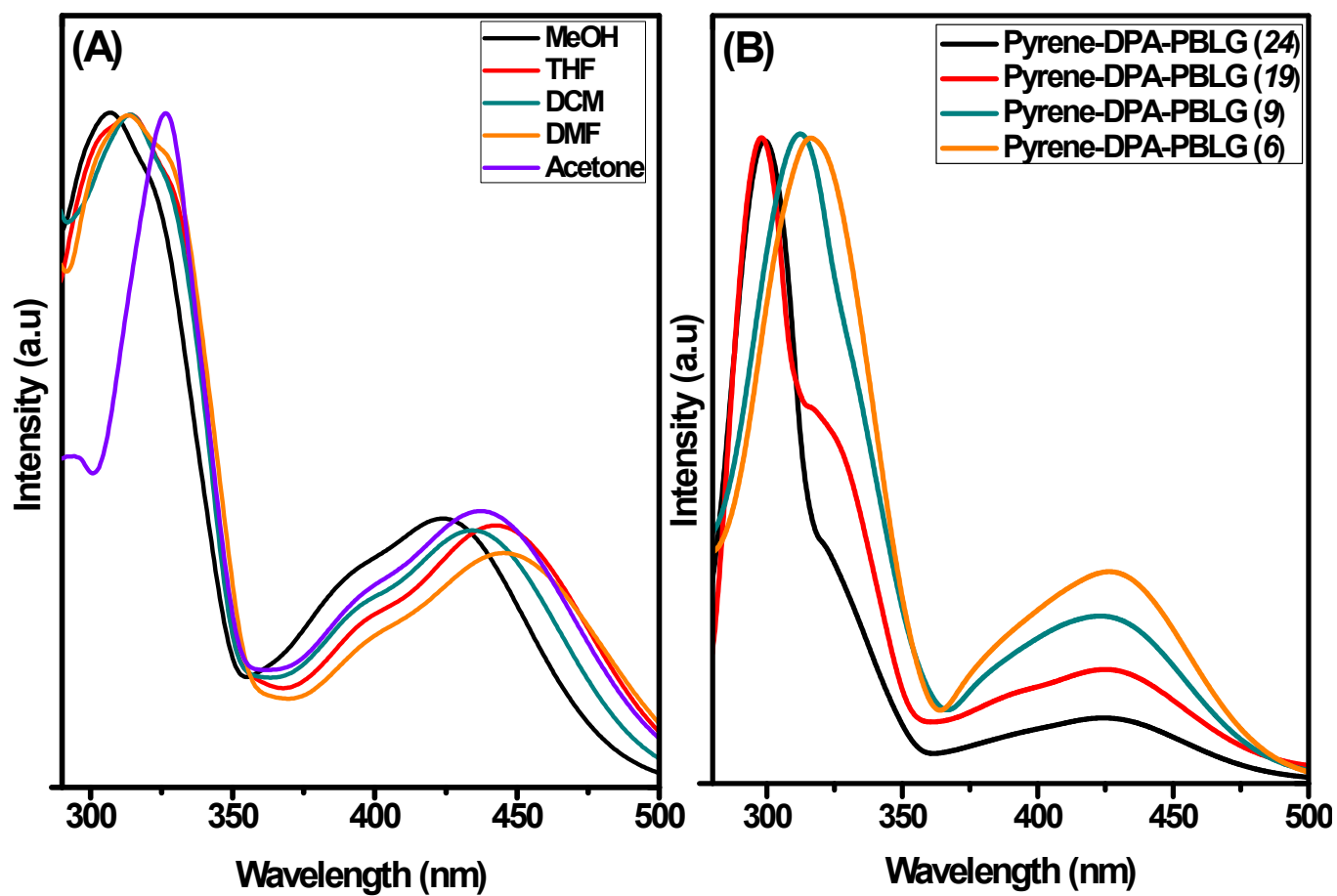


Figure S3. UV-Vis absorption spectra of (A) pyrene-DPA-2NH₂ and (B) pyrene-DPA-PBLG in DMF (concentration: 10^{-4} M).

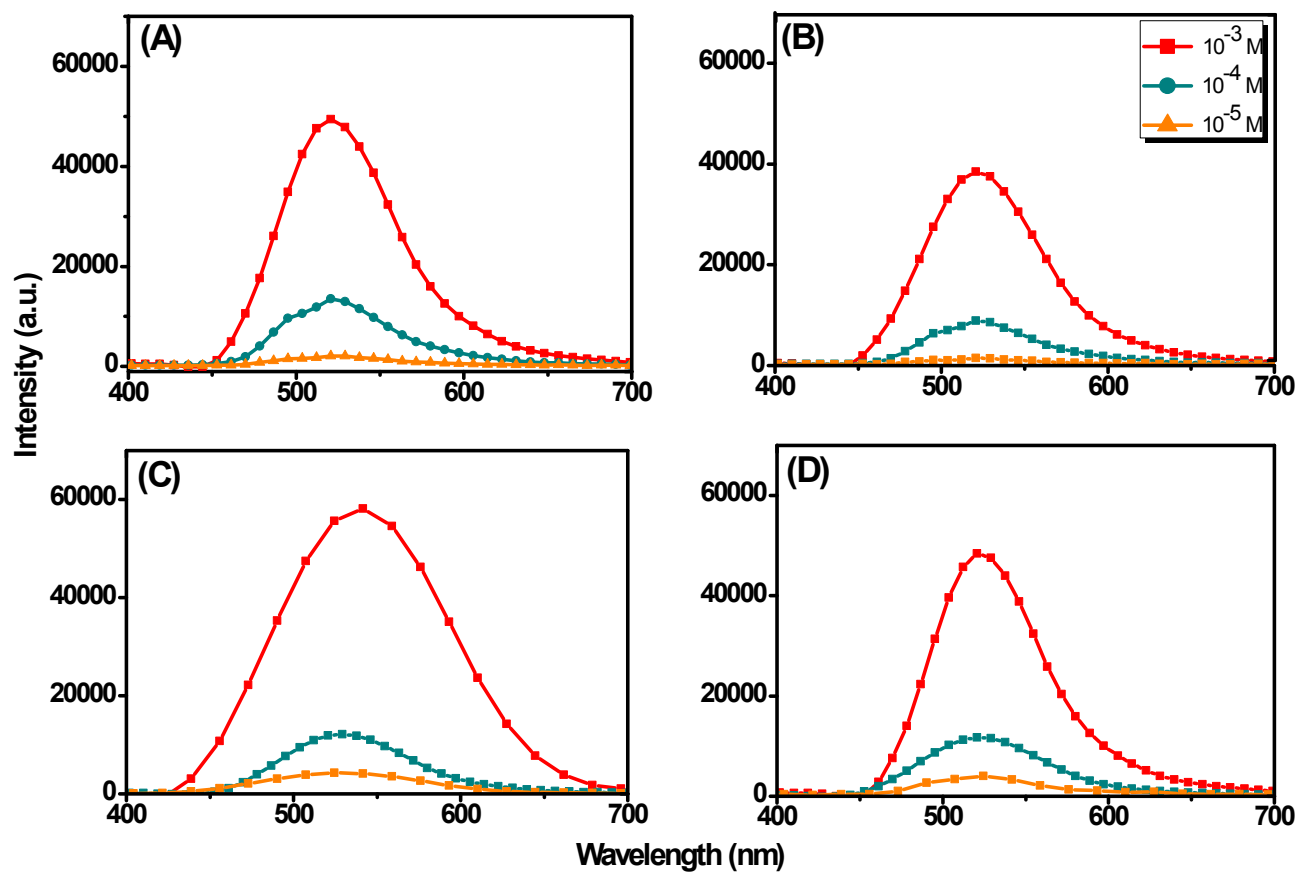


Figure S4. Solution PL emission spectra of (A) pyrene-DPA-PBLG(24), (B) pyrene-DPA-PBLG(19), (C) pyrene-DPA-PBLG(9), and (D) pyrene-DPA-PBLG(6) in THF (excitation wavelength: 343 nm).

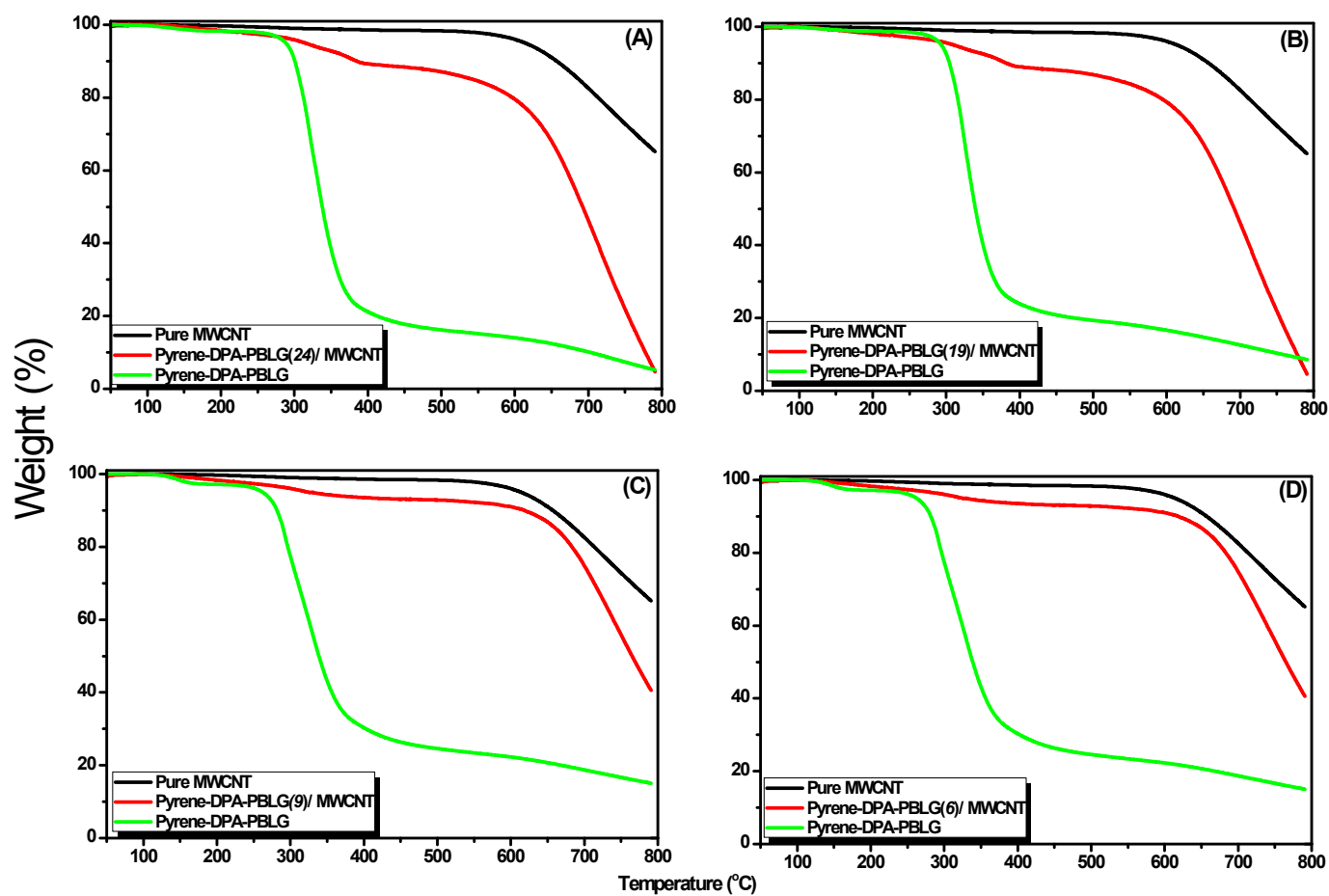


Figure S5. TGA analyses of (A) pyrene-DPA-PBLG(24), (B) pyrene-DPA-PBLG(19), (C) pyrene-DPA-PBLG(9), and (D) pyrene-DPA-PBLG(6) as composites with MWCNTs.