

## Supporting Informations

### Experimental section

$^1\text{H}$  Nuclear Magnetic Resonance spectra were obtained at room temperature by using Bruker DX400 at 400MHz with tetramethylsilane as the reference. Gel permeation chromatography (GPC) analysis was also performed by a set of a Hitachi/Merck L-7100 pump, a Waters 2414 refractive index detector and a Waters 486 ultraviolet detector, the combination of Hersteller MZ-Gel SDplus 5  $\mu\text{m}$ , porosity 100 Å,  $10^3$  Å,  $10^4$  Å, and  $10^6$  Å. THF with 1g/L LiBr was used as eluent at flow rate of 1mL/min at 35 °C. Matrix Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectra (MALDI-TOF MS) were obtained with a Bruker Biflex III spectrometer using laser of 337 nm and potassium chloride and 4'-hydroxy- $\alpha$ -cyanocinnamic acid as ionizing and matrix reagents, respectively.

### Supporting Figures

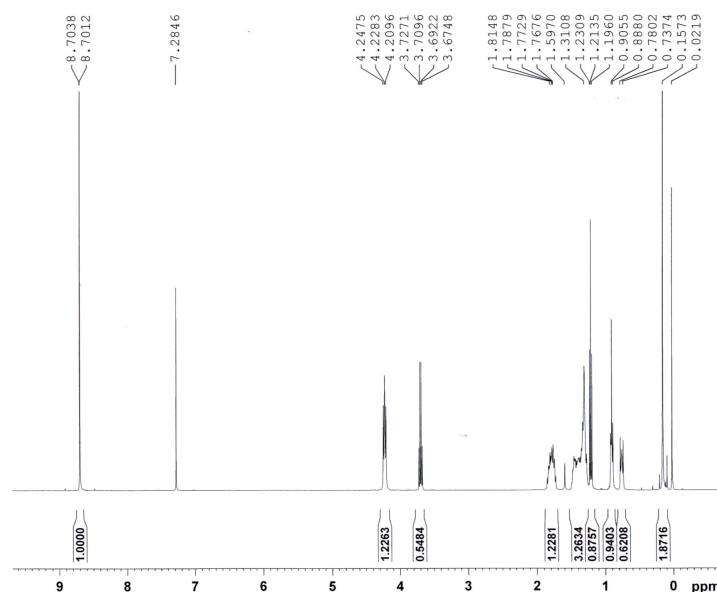


Figure S1.  $^1\text{H}$ -NMR spectrum of 1,6,7,12 – tetrachloro – N – octadecyl - N' - (ethoxyldimethylsilyl) propyl – perylene - 3,4,9,10 - tetracarboxylic acid diimide

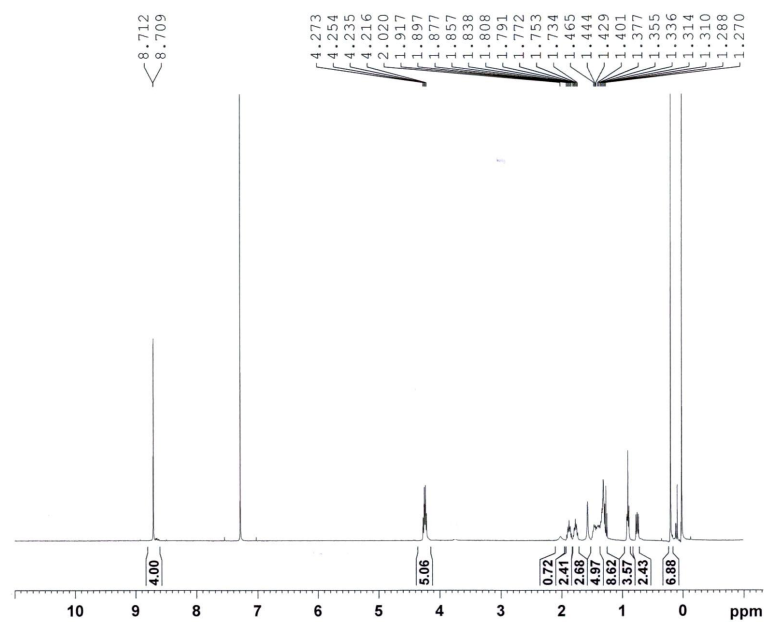


Figure S2.  $^1\text{H}$ -NMR spectrum of 1,6,7,12 – tetrachloro – N – octadecyl - N' - (hydroxydimethylsilyl) propyl – perylene - 3,4,9,10 - tetracarboxylic acid diimide

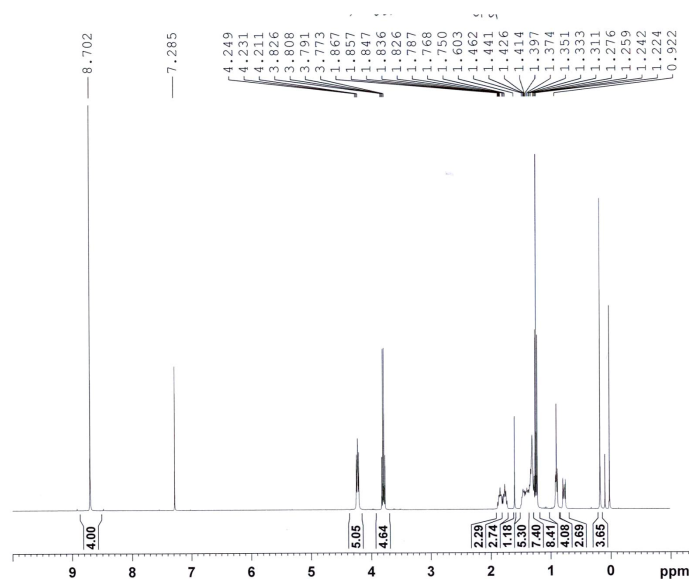


Figure S3.  $^1\text{H}$ -NMR spectrum of 1,6,7,12 – tetrachloro – N – octadecyl - N' - (diethoxymethylsilyl) propyl – perylene - 3,4,9,10 - tetracarboxylic acid diimide

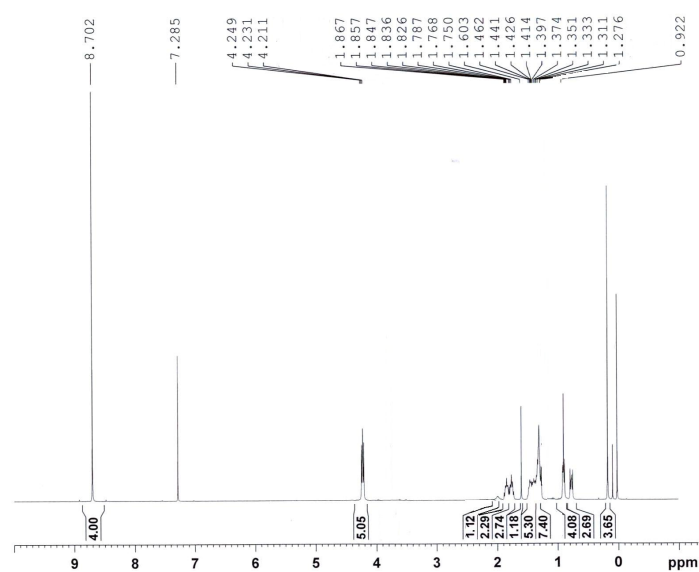


Figure S4.  $^1\text{H}$ -NMR spectrum of 1,6,7,12 – tetrachloro – N – octadecyl - N' - (dihydroxymethylsilyl) propyl – perylene - 3,4,9,10 – tetracarboxylic acid diimide

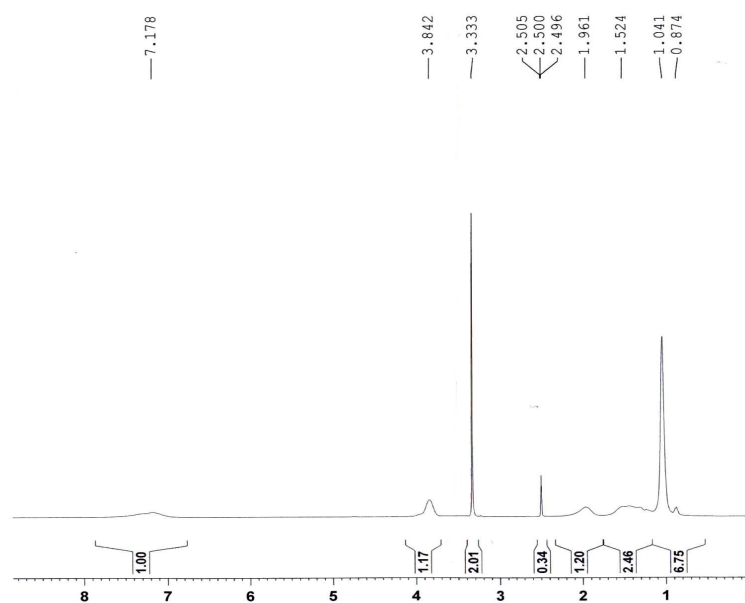


Figure S5.  $^1\text{H}$ -NMR spectrum of oligomeric PDI

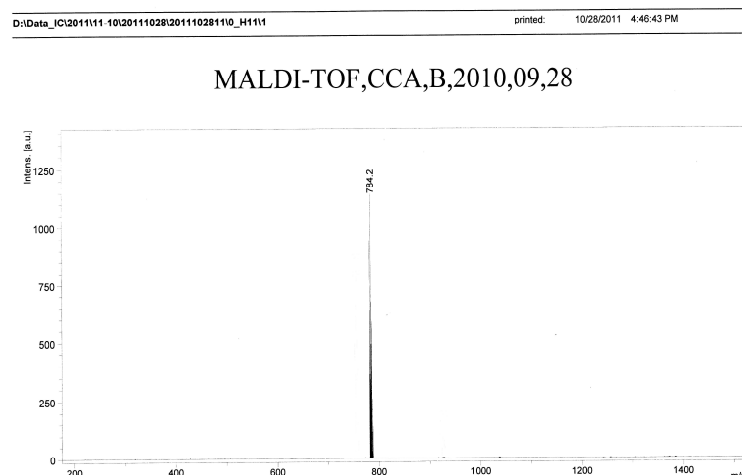


Figure S6. MALDI-TOF MS of 1,6,7,12 – tetrachloro – N – octadecyl - N' - (ethoxyldimethylsilyl) propyl – perylene - 3,4,9,10 - tetracarboxylic acid diimide

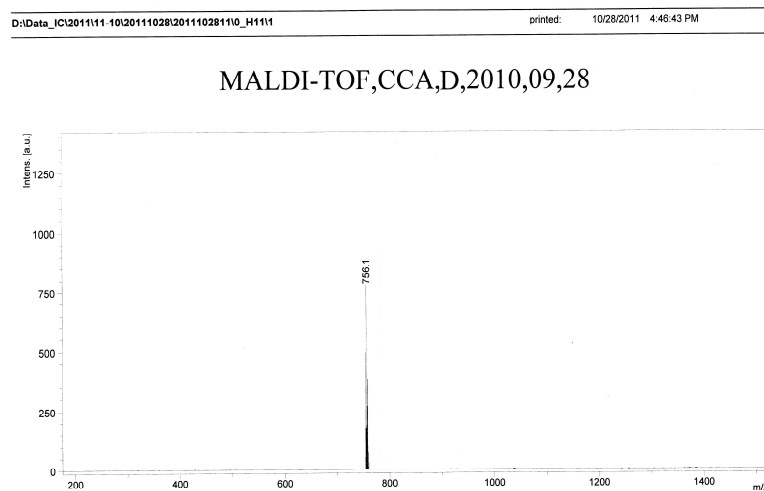


Figure S7. MALDI-TOF MS of 1,6,7,12 – tetrachloro – N – octadecyl - N' - (hydroxyldimethylsilyl) propyl – perylene - 3,4,9,10 - tetracarboxylic acid diimide

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MALDI-TOF,CCA,C,2010,09,28

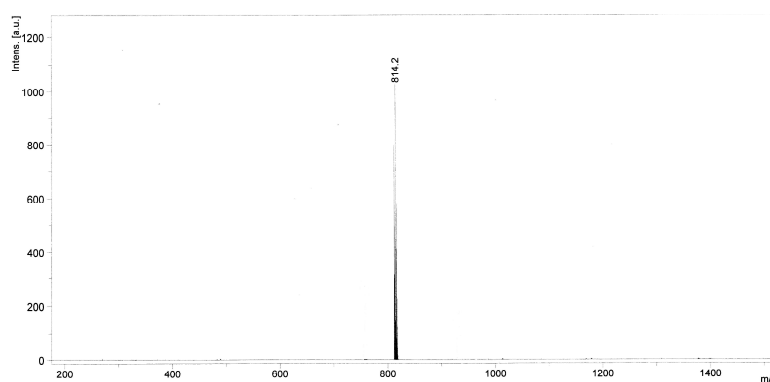


Figure S8. MALDI-TOF MS of 1,6,7,12 – tetrachloro – N – octadecyl - N' - (diethoxymethylsilyl) propyl – perylene - 3,4,9,10 - tetracarboxylic acid diimide

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MALDI-TOF,CCA,A,2010,09,28

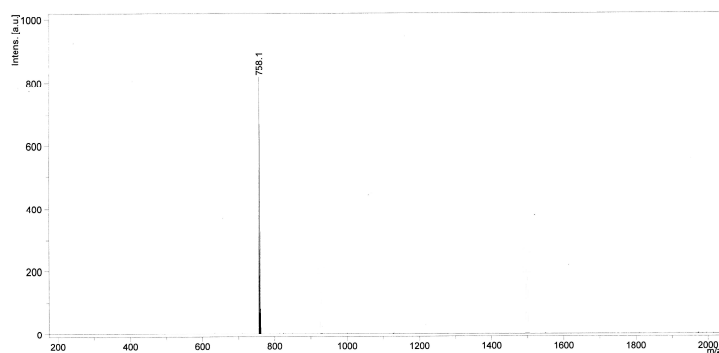


Figure S9. MALDI-TOF MS of 1,6,7,12 – tetrachloro – N – octadecyl - N' - (dihydroxymethylsilyl) propyl – perylene - 3,4,9,10 – tetracarboxylic acid diimide

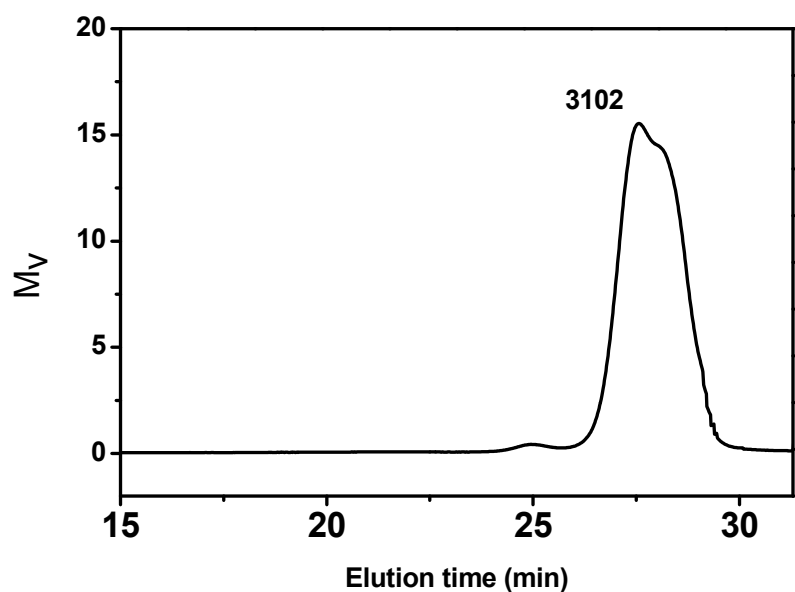


Figure S10. GPC curve of rGO-(PDI)<sub>n</sub>

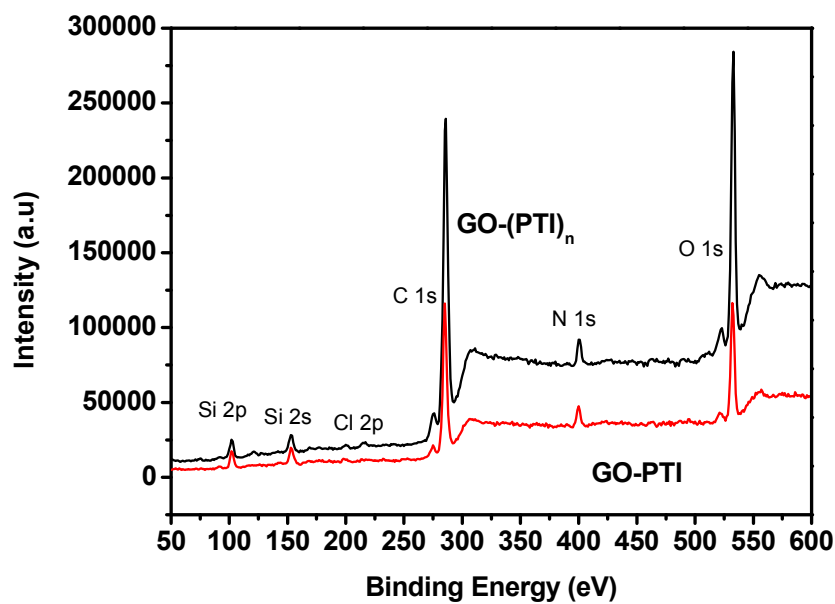


Figure S11. XPS spectra of rGO-PDI and rGO-(PDI)<sub>n</sub>

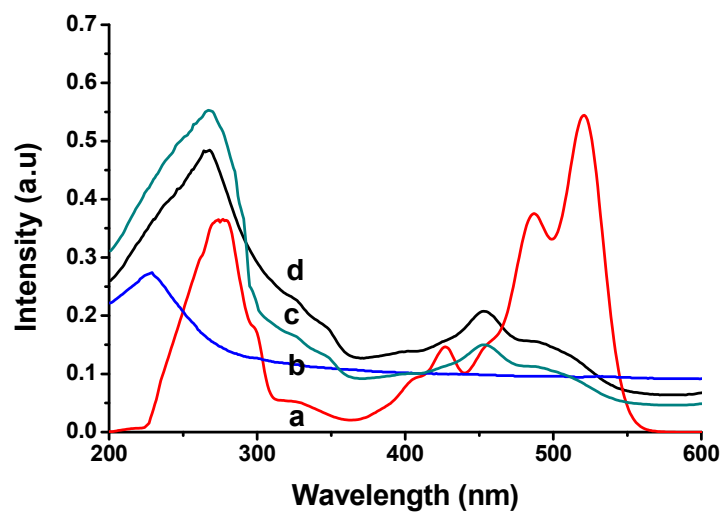


Figure S12. UV-vis spectra of a. PDI in DMF; b. GO in DMF; c. rGO-PDI in DMF and d. rGO-(PDI)<sub>n</sub> in DMF.