Electronic Supplementary Material (ESI) for RSC Advances

Supporting information

Covalently Linked Graphene-Oligo(phenylenevinylene) Adduct: Self-Organization and Photo-physical Properties

H. S. S. Ramakrishna Matte,[a,b] Ankit Jain [a] and Subi J. George [a,*]

[a] New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur P. O., Bangalore 560 064 (India).E-mail: george@jncasr.ac.in

[b] Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur P. O., Bangalore 560 064 (India).

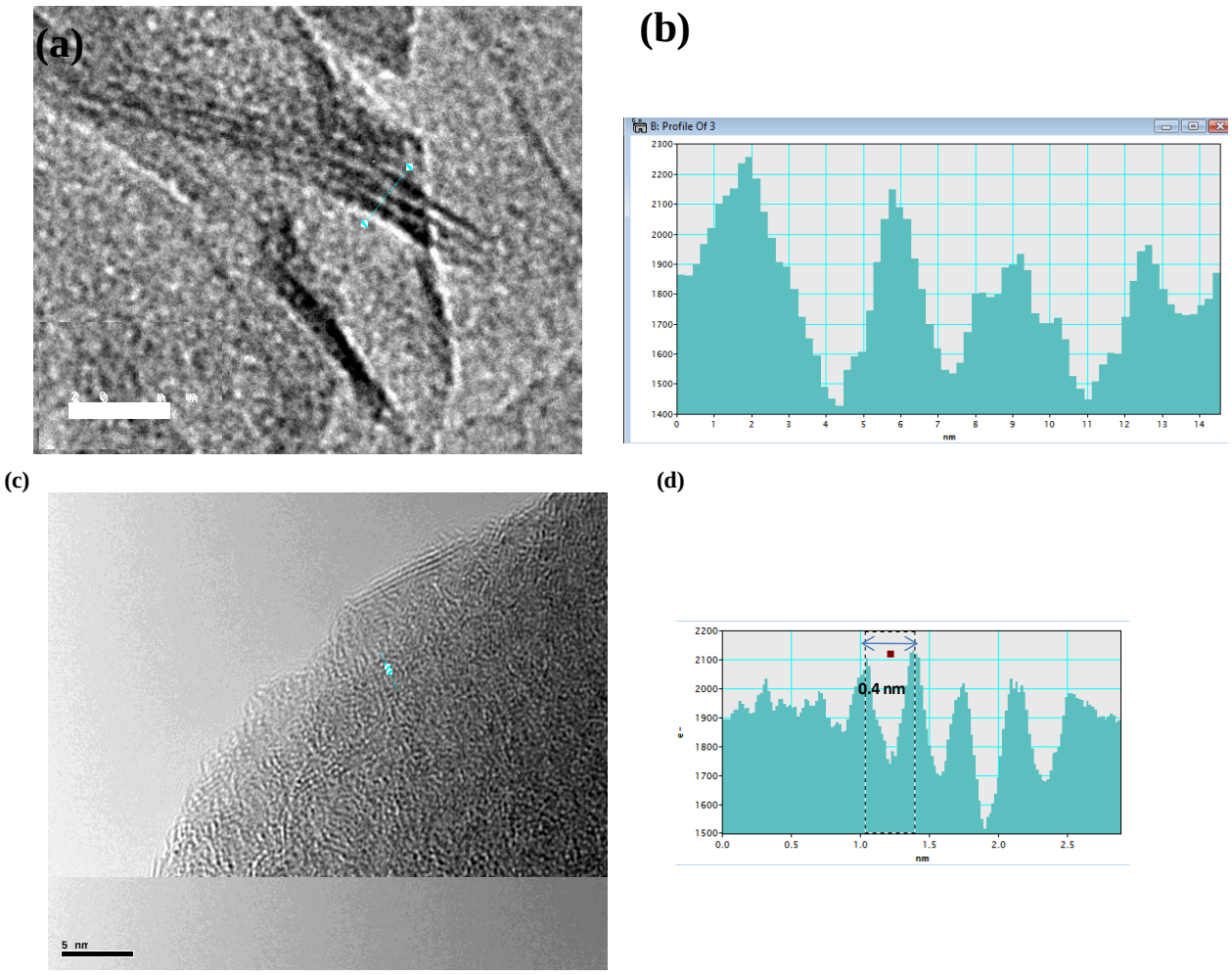

Figure S1. (a) and (c) TEM image, (b) and (d) the corresponding contrast profile of **EG-OPV** and **EG** respectively

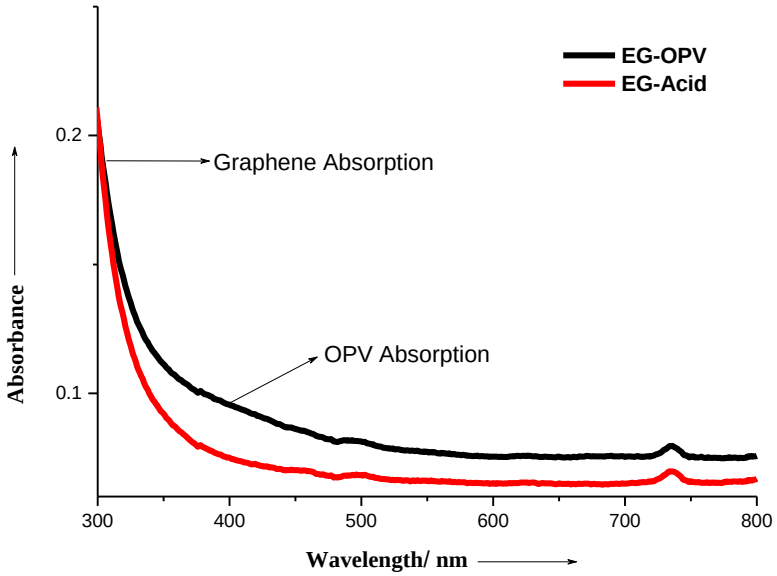

Figure S2. Absorption spectra of **EG-acid** and **EG-OPV**

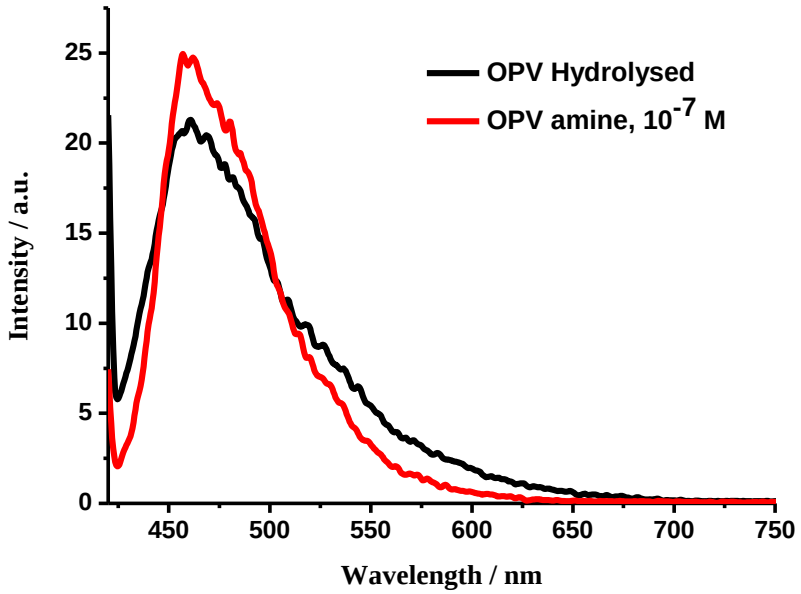

Figure S3. Emission spectra for quantification of functionalization (λ_{exc} = 420 nm).

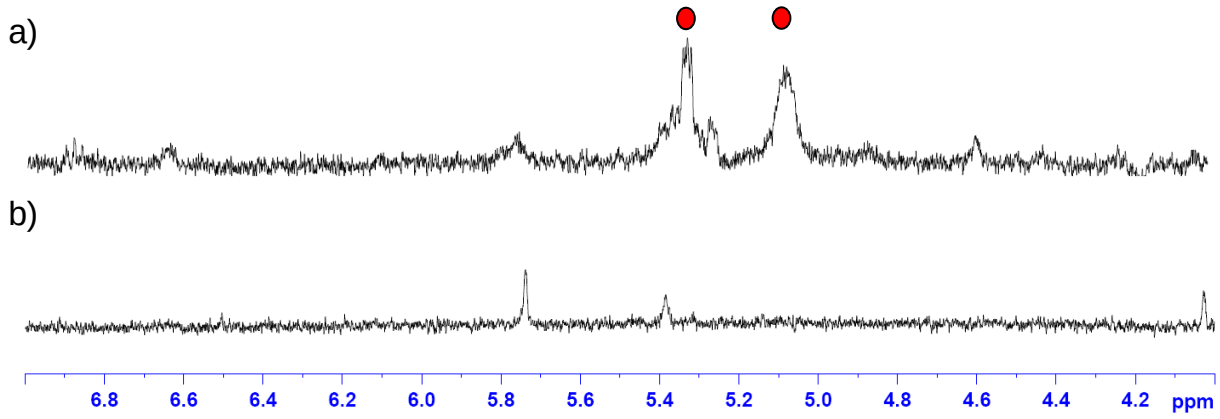

Figure S4. ^{1}H-NMR of a) Hydrolyzed OPV sample and b) **EG-Acid** clearly showing the cyclobutyl peaks in the former (marked in red).

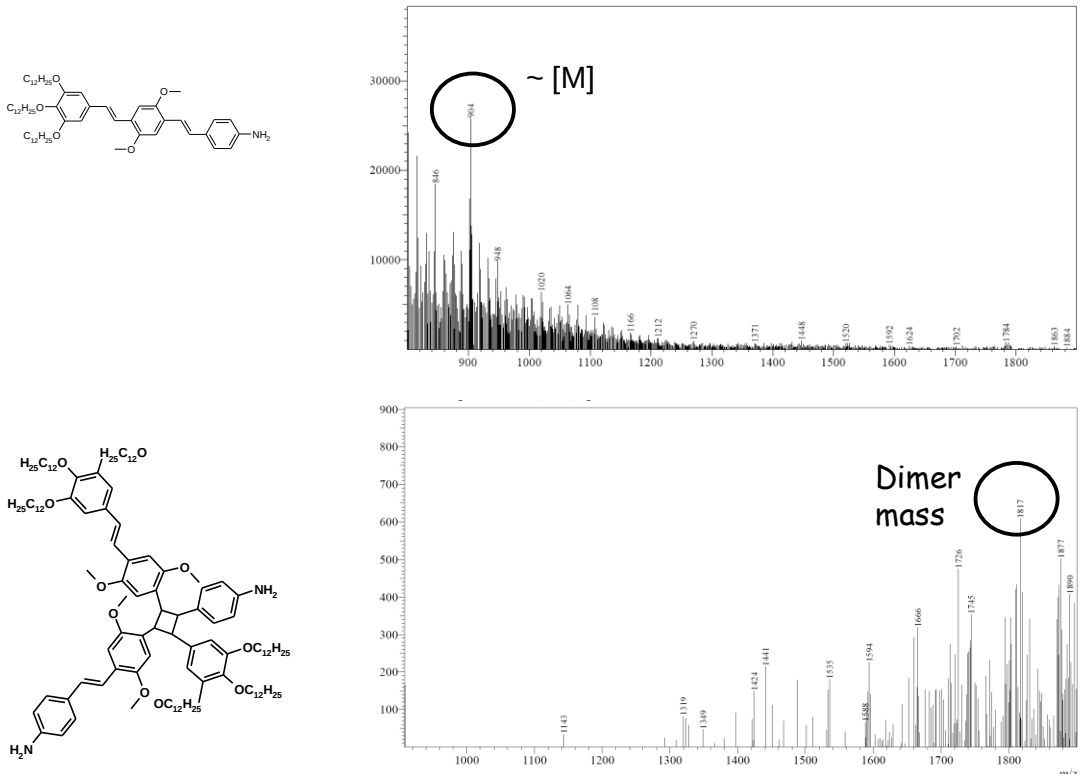

Figure S5. ESI-MS of Hydrolyzed OPV sample.