

Supplementary Materials

Tailoring intrinsic properties of polyaniline by functionalization with phosphonic groups

Beatriz Martínez-Sánchez¹, Diego Cazorla-Amorós², Emilia Morallón^{1,*}

¹ Departamento de Química Física and Instituto Universitario de Materiales de Alicante (IUMA), University of Alicante, Ap. 99, 03080, Alicante, Spain; beatriz.ms@ua.es

² Departamento de Química Inorgánica and Instituto Universitario de Materiales de Alicante (IUMA), University of Alicante, Ap. 99, 03080, Alicante, Spain

* Corresponding author: morallon@ua.es (E.M.)

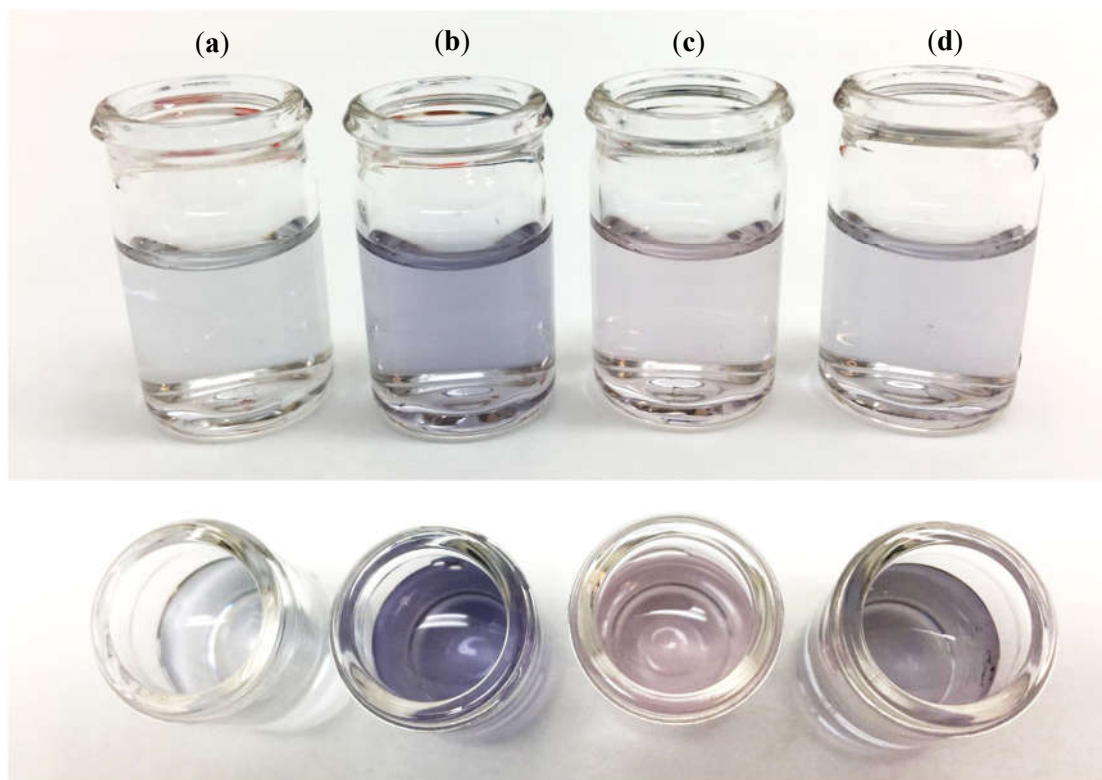


Figure S1. 10^{-2} mg mL⁻¹ dispersions of: (a) PANI, (b) PANI2APPA (80/20), (c) PANI2APPA (50/50), and (d) PANI4APPA (50/50) in 1 M NH₄OH solution.

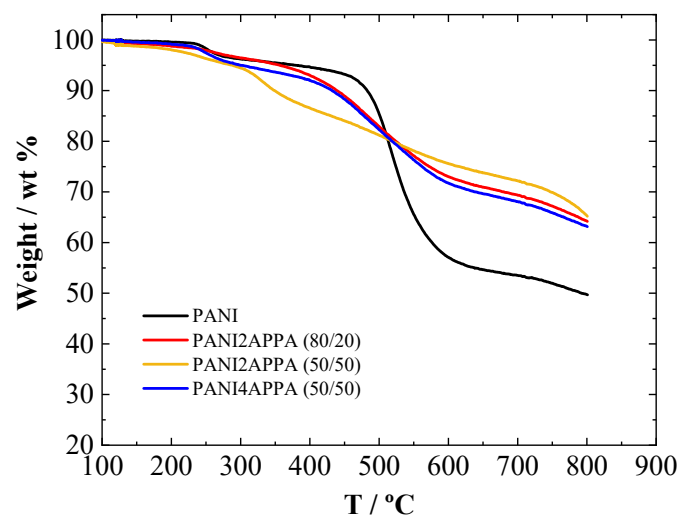


Figure S2. TGA thermograms of PANI (black line), PANI2APPA feed ratio 80/20 (red line) and 50/50 (orange line), and PANI4APPA feed ratio 50/50 (blue line) performed under He atmosphere at heating rate of 10 °C min⁻¹.

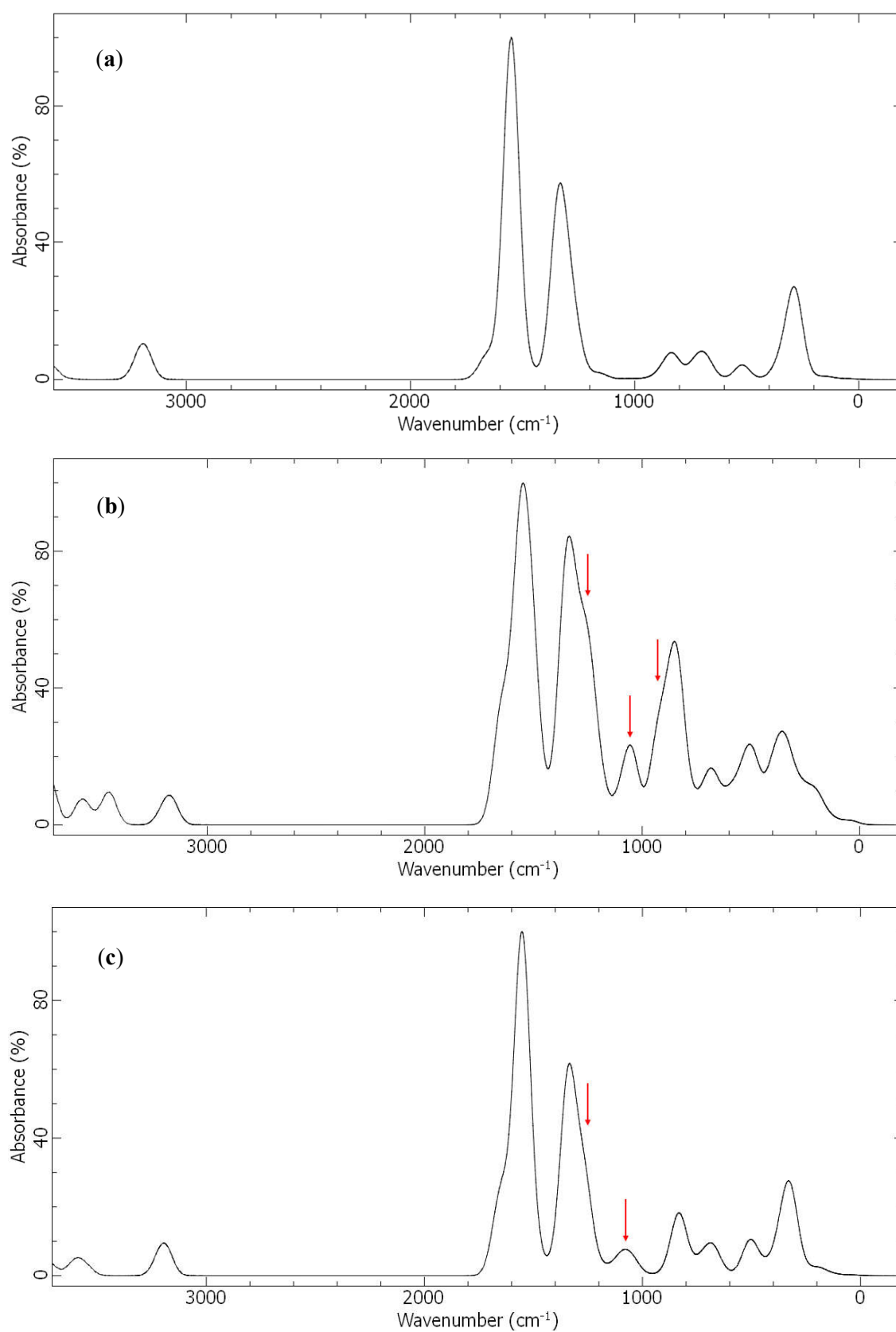


Figure S3. FTIR spectra obtained for: (a) PANI, (b) PANI2APPA and (c) PANI4APPA, using a total of 8 monomers in each case, by computational calculations.