

Sonochemically Synthesized Black Phosphorous Nanoparticles: A Promising Candidate for Piezocatalytic Antibacterial Activity with Enhanced Dielectric Properties

Piyali Halder^a, Indrajit Mondal^a, Neelanjana Bag^a, Alapan Pal^a, Somen Biswas^{a, b}, Souvik Sau^{a, b}, Biplab Kumar Paul^c, Dheeraj Mondal^{*d}, Brajadulal Chattopadhyay^{*a}, Sukhen Das^{*a}

^a Department of Physics, Jadavpur University, Kolkata-700032, India.

^b Department of Physics, Bangabasi College, Kolkata-700009, India.

^c University of Engineering and Management, Kolkata-700160, India

^d Department of Physics, Nabagram Hiralal Paul College, Hoogly-712246, India.

*Address for Correspondence

sdasphysics@gmail.com

bdc_physics@yahoo.co.in

dheerajphysics92@gmail.com

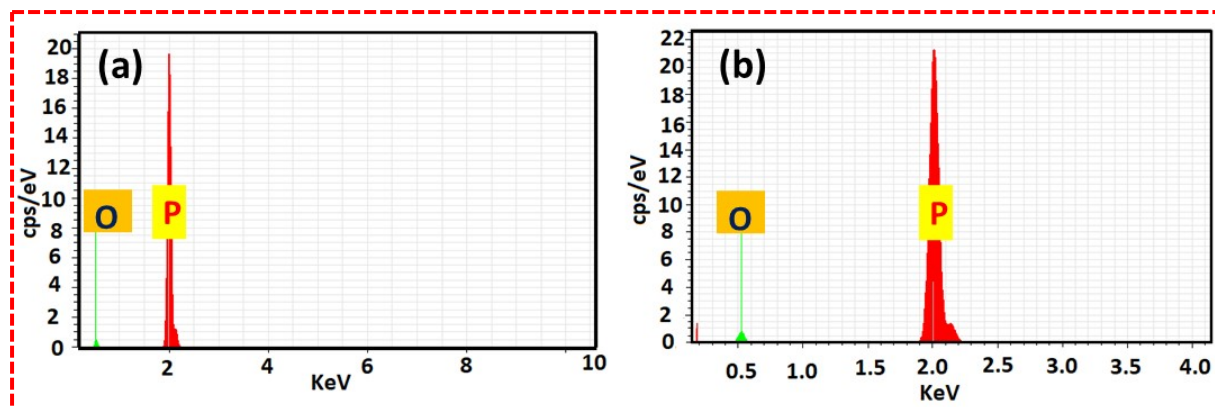


Figure S1(a-b): EDX Spectra of TABP and SCBP sample.

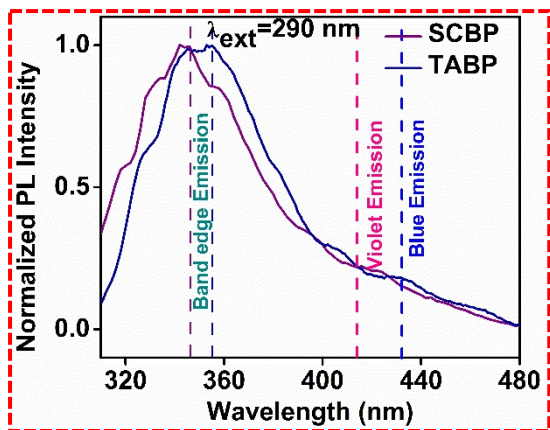


Figure S2: Normalized PL Intensity as a function of wavelength