

Supplementary information (ESI)

Poly[2,2'-(4,4'-bipyridine)-5,5'-bibenzimidazole] functionalization of Carbon Black for improving Oxidation Stability and Oxygen Reduction Reaction of Fuel Cells

Mohamed R. Berber,^{*a,b} Mohamad Y. Mustafa^c

^a Chemistry Department, College of Science, Jouf University, Sakaka 2014, Saudi Arabia

^b Department of Chemistry, Faculty of Science, Tanta University, Tanta 31527, Egypt

^c Institute of Buildings, Energy and Material Technology, Faculty of Engineering Science and Technology, The Arctic University of Norway, Norway

*Corresponding author: mrberber@science.tanta.edu.eg; mrberber@ju.edu.sa

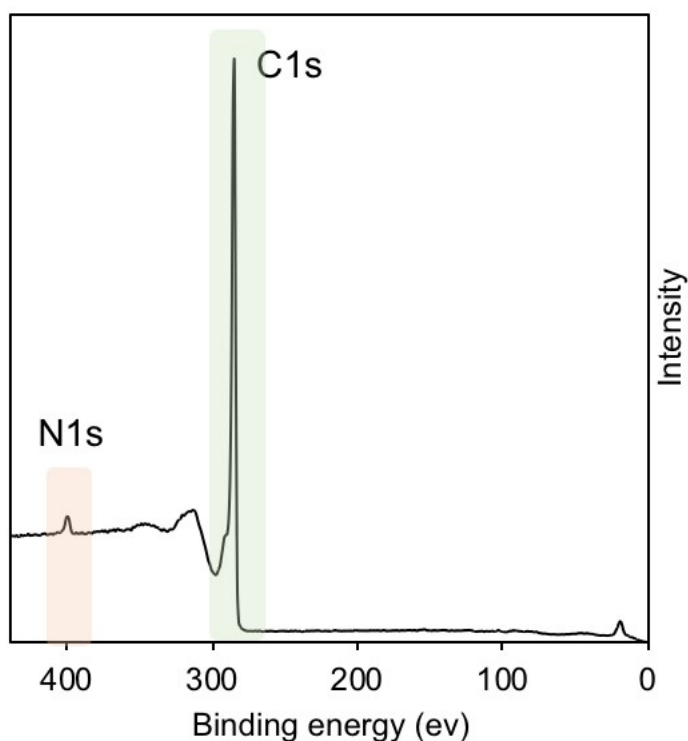


Fig. S1. XPS survey scan of BiPyPBI/CB composite.

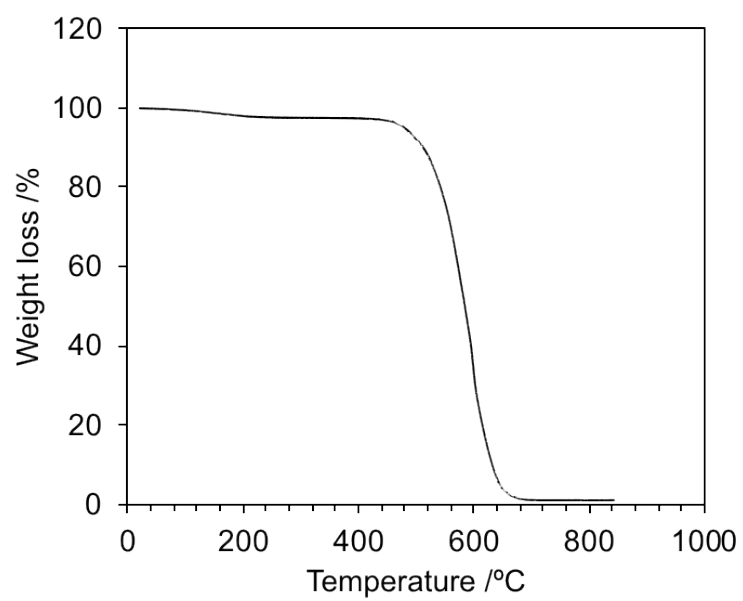
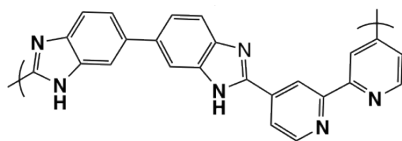


Fig. S2. TGA of BiPyPBI polymer

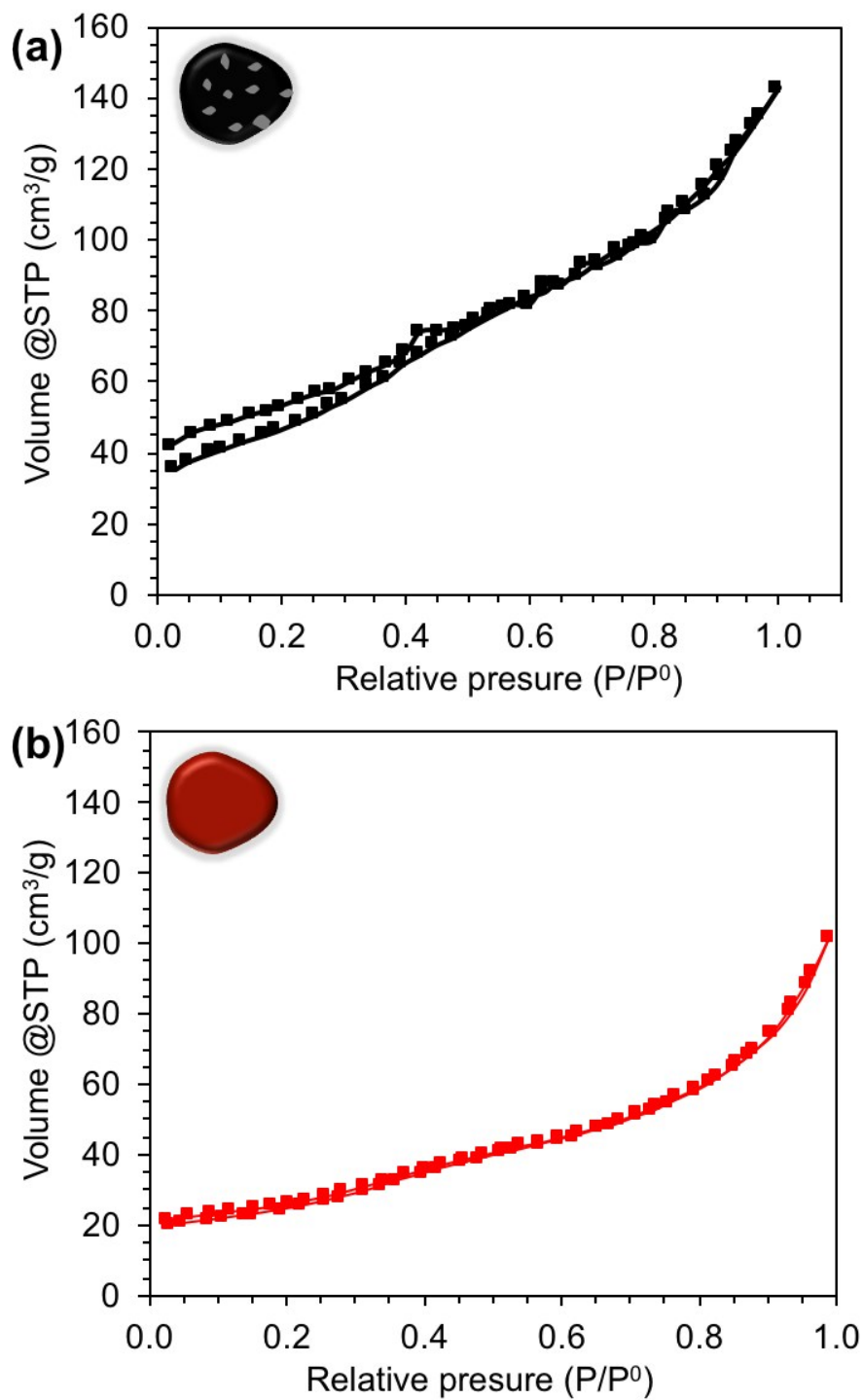


Fig. S3. Nitrogen-gas adsorption isotherm of: (a) Pt/BiPyPBI/CB and (b) Pt/C composites.

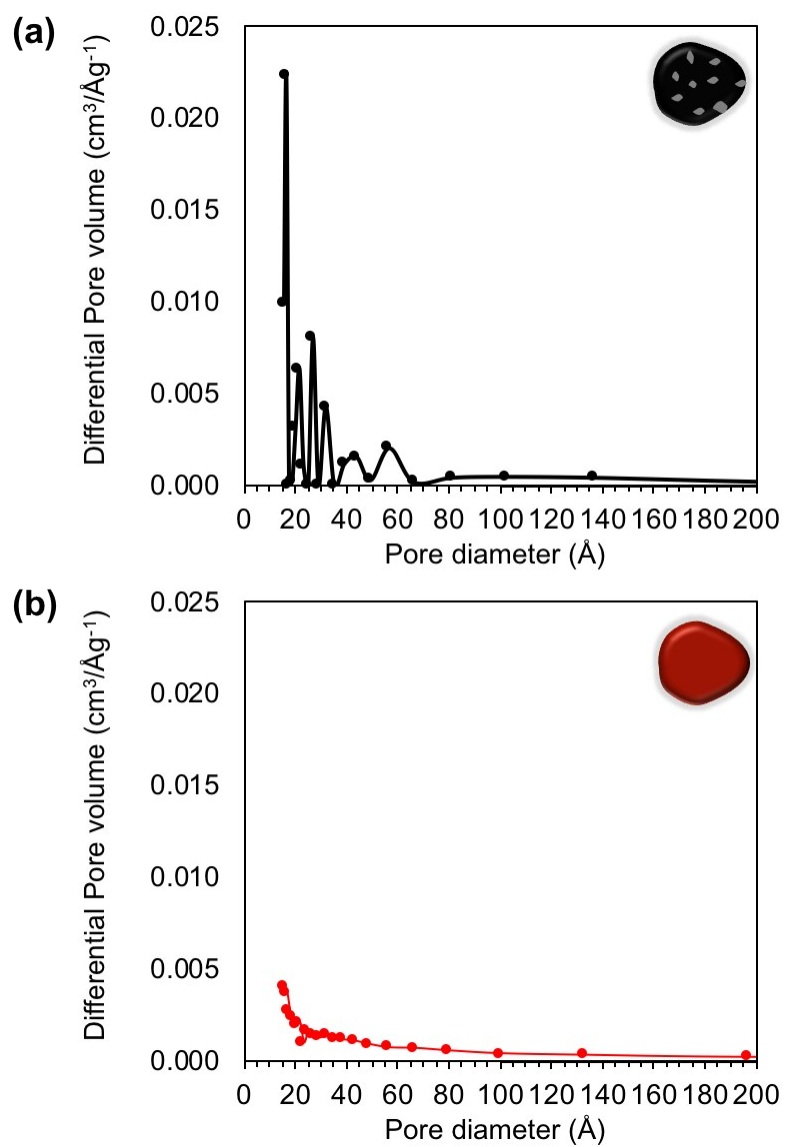


Fig. S4. Particle size distribution of Pt-NPs of: (a) CB, and (b) BiPyPBI/CB composites.