

Supplementary Information

Fabrication of conjugated porous polymer catalysts for oxygen reduction reactions: A bottom-up approach

Sujoy Bandyopadhyay^{1,6}, Su Ryong Ha², M. Alam Khan², Cheongbeom Lee², Hong In Jeong², Snehal Lokhandwala¹, Mohaseen S. Tamboli², Bo Ram Lee³, Danil W. Boukhvalov^{4,5}, Hyosung Choi^{*2}

¹*Department of Chemistry, SRICT Institute of Science & Research (SRICT-ISR) Block No. 402, Ankleshwar-Valia Road, Ta: Valia, Dist: Bharuch, Pin–393135, India*

²*Department of Chemistry and Research Institute for Natural Sciences, Hanyang University, 222 Wangsimni-ro, Seongdong-gu, Seoul 04763, Republic of Korea*

³*Department of Physics, Pukyong National University, 45 Yongso-ro, Nam-Gu, Busan, 48513, Republic of Korea*

⁴*College of Science, Institute of Materials Physics and Chemistry, Nanjing Forestry University, Nanjing 210037, P. R. China*

⁵*Institute of Physics and Technology, Ural Federal University, Mira Street 19, 620002 Yekaterinburg, Russia*

⁶*Department of Chemistry, Indrashil University, Pincode-382740 Rajpur, Gujarat, India.*

***Corresponding Author**

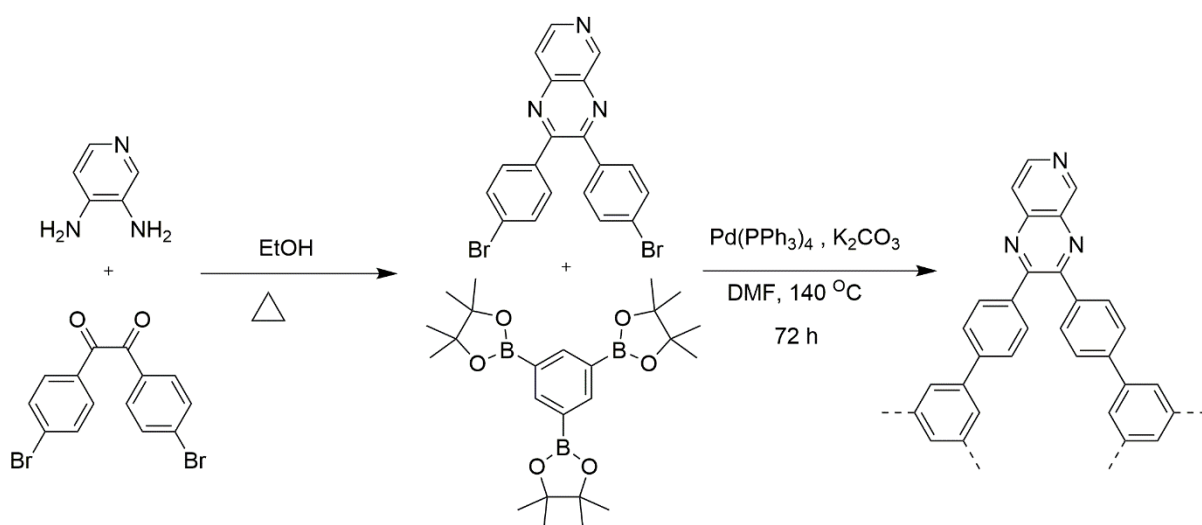
Prof. Hyosung Choi

Address: 222 Wangsimni-ro, Seongdong-gu, Seoul 04763, South Korea

E-mail address: hschoi202@hanyang.ac.kr

Tel: +82-2-2220-2619

Fax: +82-2-2298-0319



Scheme S1. Schematic representation of synthesis of CPOP-P2.

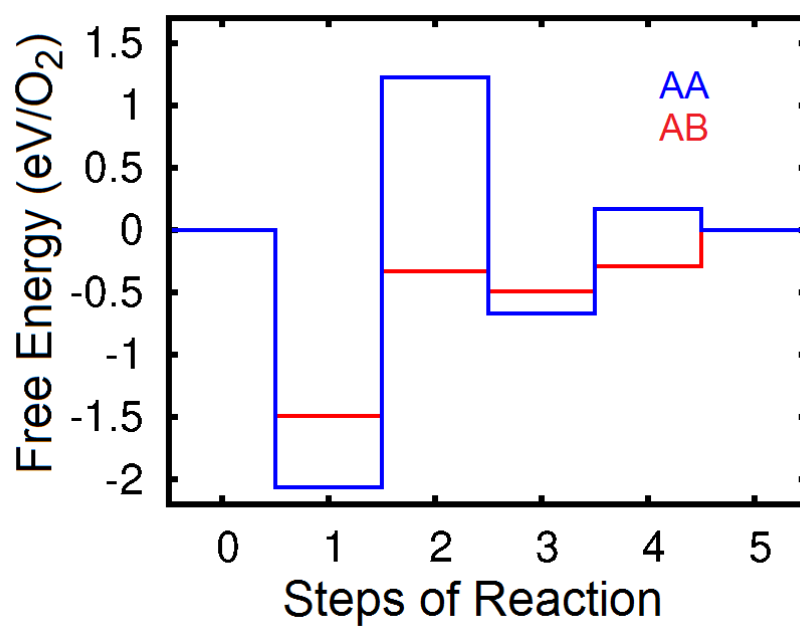
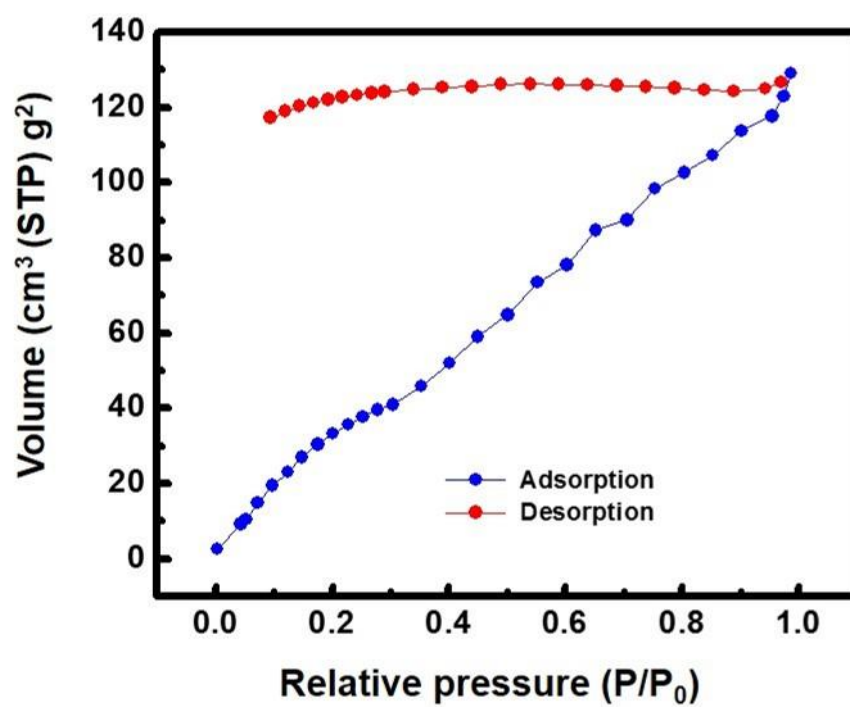


Figure S2. Free energy of the ORR involving two pyrazine sites for two different types of CPP-P2 packing (Fig. 6).