

## Supporting information

**Al-based porous coordination polymer derived nanoporous carbon for  
immobilization of glucose oxidase and its application in Glucose/O<sub>2</sub> biofuel cell  
or biosensor**

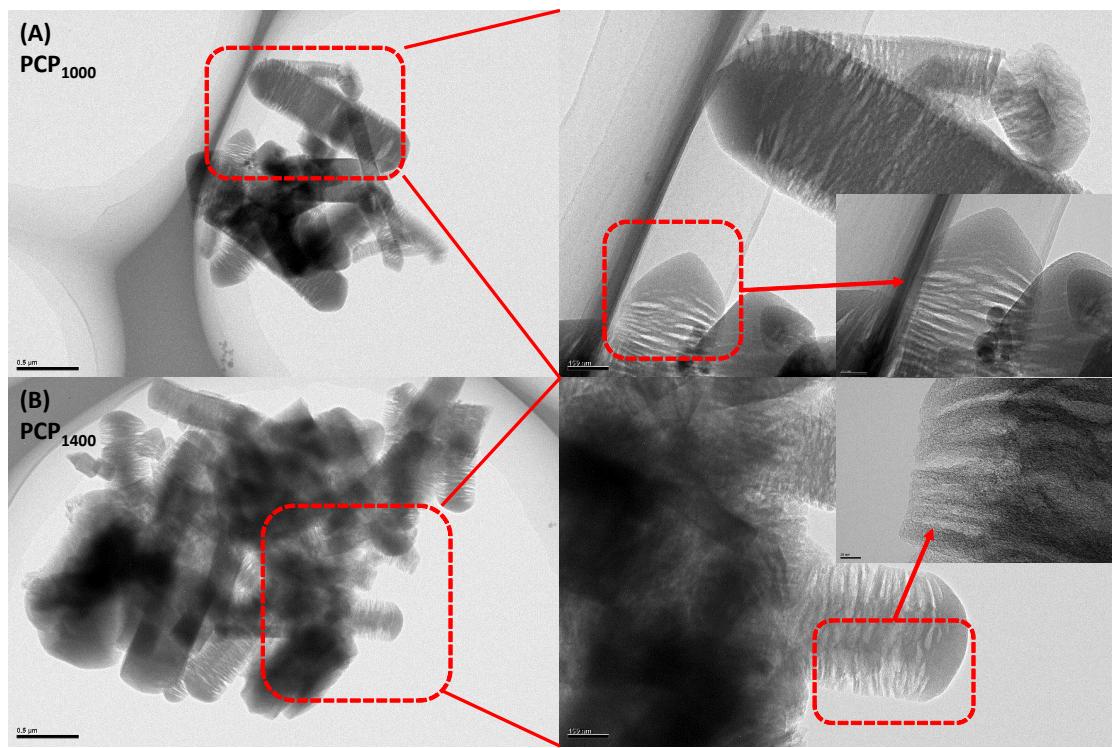
Zepeng Kang<sup>a</sup>, Kailong Jiao<sup>a</sup>, Ruiyun Peng<sup>b</sup>, Zongqian Hu<sup>b,\*</sup>, Shuqiang Jiao<sup>a,\*</sup>

<sup>a</sup>State Key Laboratory of Advanced Metallurgy, University of Science and Technology Beijing,  
Beijing, 100083, P.R. China.

<sup>b</sup> Beijing Institute of Radiation Medicine, Beijing, 100850, P.R. China.

\* To whom correspondence should be addressed. E-mail: sjiao@ustb.edu.cn (S Jiao); Fax: +86-  
10-62334204; Tel: +86-10-62334204

Correspondence may also be addressed to Zongqian Hu. E-mail: [huzongqian@hotmail.com](mailto:huzongqian@hotmail.com) (Z  
Hu); Tel: + 86-10-66930272



**Fig. S1.** TEM images of (A) PCP<sub>1000</sub> and (B) PCP<sub>1400</sub>.

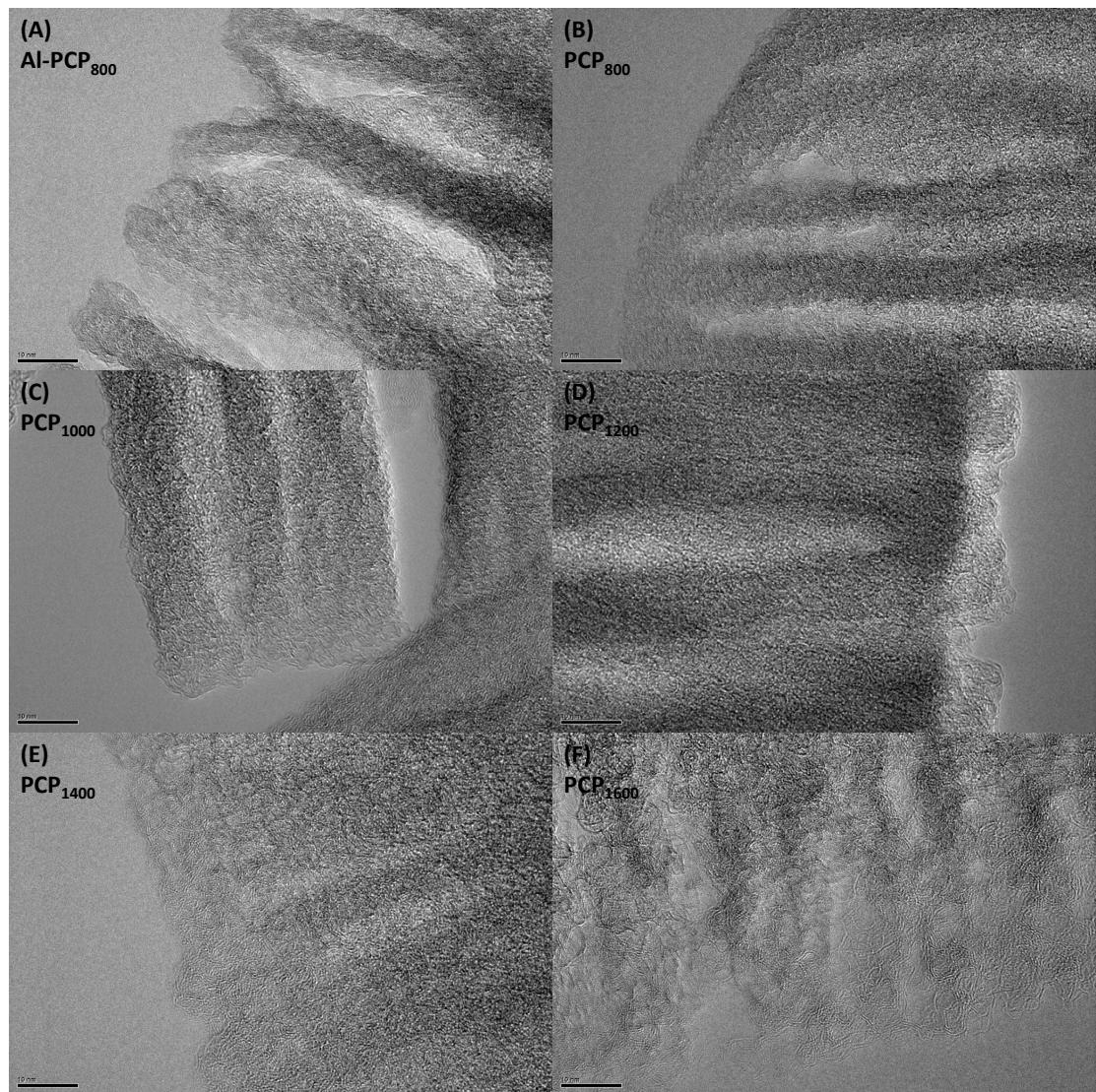


Fig. S2. High resolution images of (A)Al-PCP<sub>800</sub>, (B) PCP<sub>800</sub>, (C) PCP<sub>1000</sub>, (D) PCP<sub>1200</sub>, (E) PCP<sub>1400</sub>, (F) PCP<sub>800</sub>.

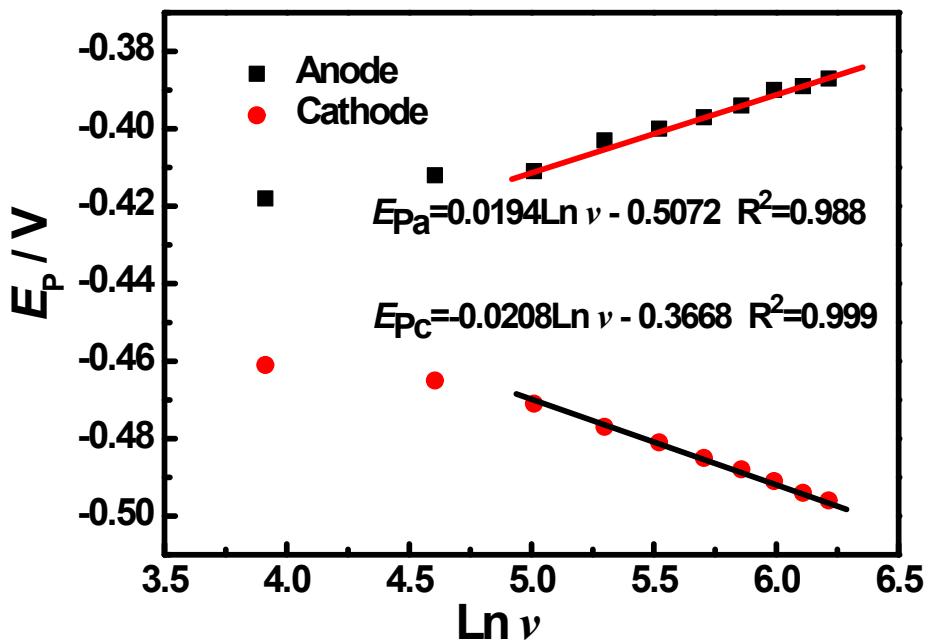


Fig. S3. Dependence of anodic and cathodic peak potentials on the Napierian logarithm of scan rate for Nafion/GOx/PCP<sub>1600</sub>/GCE electrode at varying scan rates.

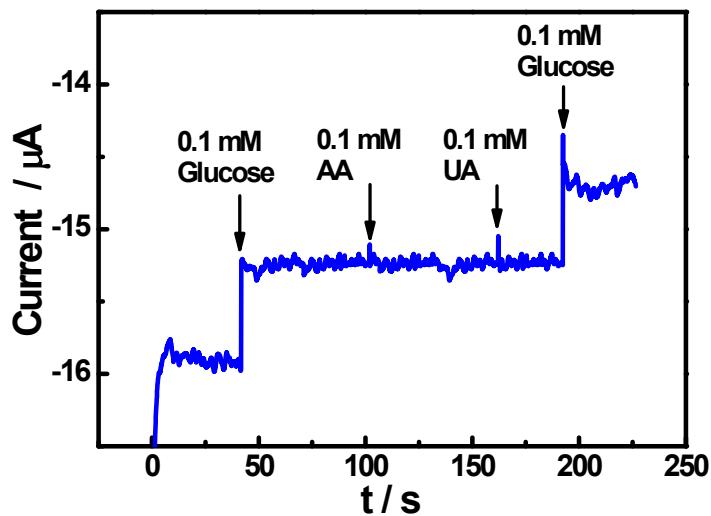


Fig. S4. Amperometric responses of Nafion/GOx/PCP<sub>1600</sub>/GCE upon addition of glucose (10 mM), AA (0.5 mM) and UA (0.5 mM). The experiment was carried out in 0.1 M PBS (pH 7.2) at a potential of -0.4 V versus Ag/AgCl.