Electronic Supplementary Information

Systematic study on preparation of copper nanoparticle embedded porous carbon by carbonization of metal-organic framework for enzymatic glucose sensor

Yoodae Song,a Damsol Cho,a,b Sada Venkateswarlu,a and Minyoung Yoona*  

aDepartment of Nanochemistry, College of Bionano, Gachon University, Sungnam, 13120, Republic of Korea, E-mail: myyoon@gachon.ac.kr

bDepartment of Bionanotechnology, College of Bionano, Gachon University, Sungnam, 13120, Republic of Korea

*Corresponding author
Fig. S1 High resolution XPS spectra of C 1s for: (a) Cu@C-700, (b) Cu@C-500, and (c) Cu@C-400, and high resolution XPS spectra of O 1s for: (d) Cu@C-700, (e) Cu@C-500, and (f) Cu@C-400.

Fig. S2 PXRD profiles of (i) HKUST-1, (ii) TMB, (iii) HKUST-1 recovered from TMB based H₂O₂ sensing experiment.
Fig. S3 PXRD profiles of (i) Cu@C-500 recovered from the second cycle of glucose sensing assay, (ii) pristine Cu@C-500.
Fig. S4. SEM images of pristine HKUST-1