Electronic Supplementary Information

Ordered mesoporous carbons-supported gold nanoparticles as highly efficient electrocatalysts for oxygen reduction reaction

Likai Wang,[a] Zhenghua Tang, [*,a,b,] Xiaojun Liu,[a] Wenhan Niu,[a] Kai Zhou,[a] Hongyu Yang,[a] Weijia Zhou,[a] Ligui Li,[a] and Shaowei Chen[*,a,c]

[a] *New Energy Research Institute, School of Environment and Energy, South China University of Technology, Guangzhou Higher Education Mega Center, Guangzhou, 510006, P. R. China. Email:* zhht@scut.edu.cn.
[b] *Guangdong Provincial Key Laboratory of Atmospheric Environment and Pollution Control, Guangzhou, Guangdong, 510006, P. R. China*
[c] *Department of Chemistry and Biochemistry, University of California, 1156 High Street, Santa Cruz, California 95064, United States. Email:* shaowei@ucsc.edu.

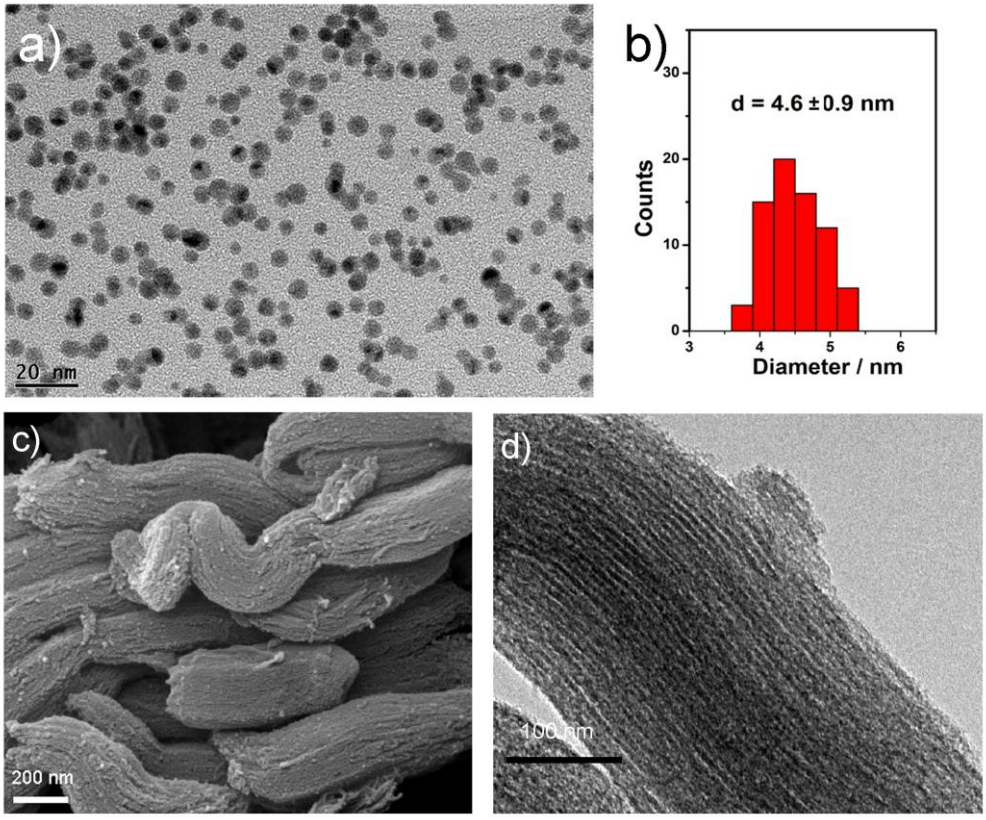

Figure S1. a) TEM image and b) the size distribution histogram of Au-4nm NPs. c) SEM and d) TEM images of Z-SBA15.

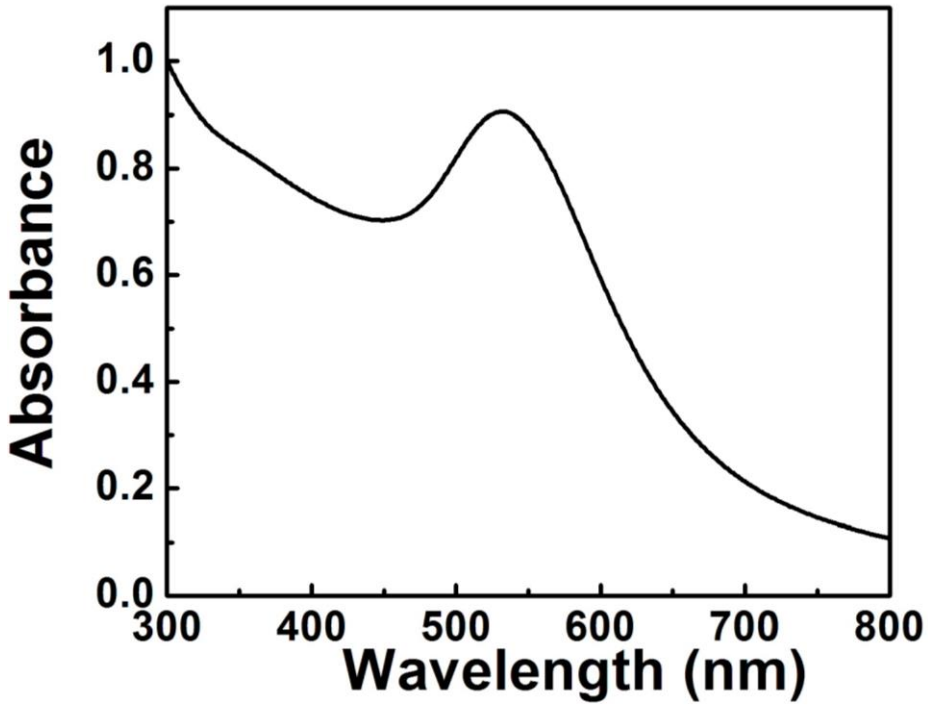

Figure S2. UV-visible absorption spectra of Au NPs.

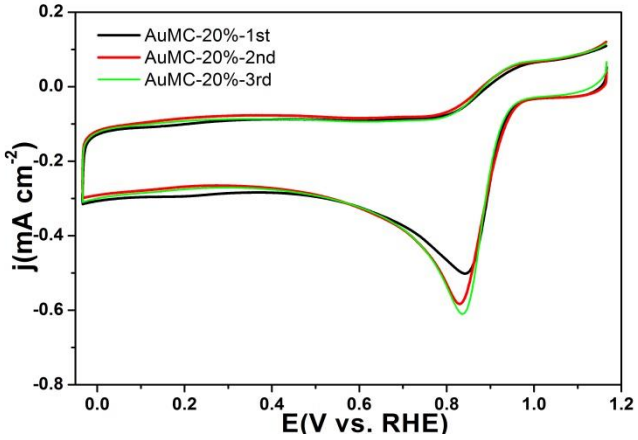

Figure S3. Cyclic voltammograms of three batches of AuMC-20% samples on a glassy carbon electrode in O_2-saturated 0.1 M KOH. Other conditions were the same as those in Fig. 5.

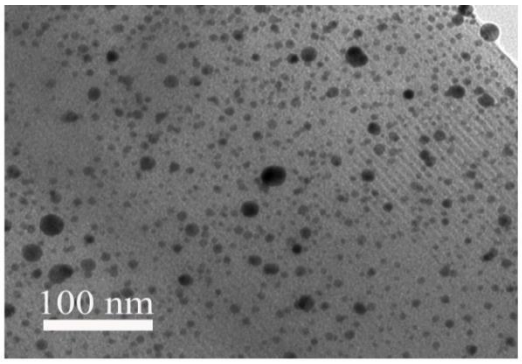

Figure S4. Representative TEM image of AuMC-20% after ORR tests in O_2-saturated 0.1 M KOH.