

Supplementary data

Fabrication of hierarchically mesoporous CuO nanostructures and their role as heterogenous catalysts and sensors.

Mehraj Ud Din Sheikh,^a Gowhar Ahmad Naikoo,^a Molly Thomas,^a Mustri Bano,^a Devender Ahirwar,^a Umar Jan Pandit^b and Farid Khan*^a

^aNanomaterials Discovery Laboratory, Department of Chemistry, Dr. Harisingh Gour University, Sagar (M.P)-470003, India, Email:faridkhan58@yahoo.com, contact: +919425626334

^bElectroanalytical Laboratory, Department of Chemistry, Dr. Harisingh Gour University, Sagar (M.P)-470003.

***Corresponding authors at: -**

Department of Chemistry, Dr. Hari Singh Gour Central University, Sagar- 470003 Email id: faridkhan58@yahoo.com/mehrajdavood@gmail.com, Phone:- +91-9425626334/9407114504

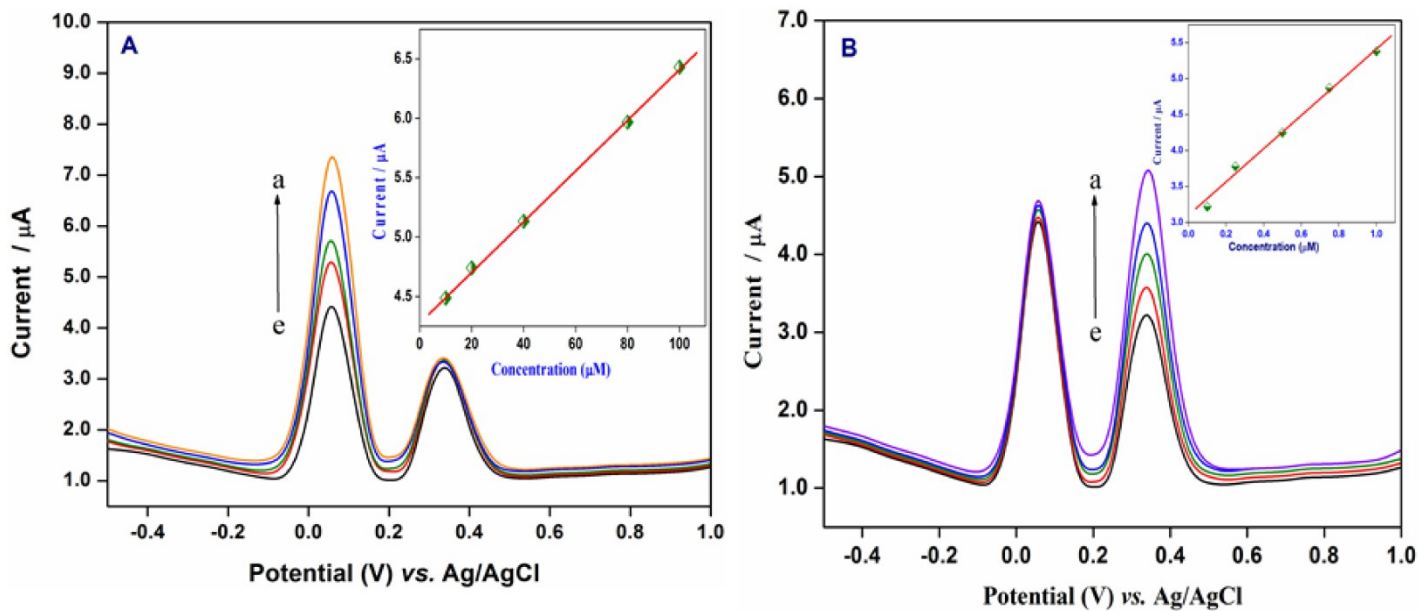


Figure S1 (A) DPV graphs of (a) 100 μM , (b) 80 μM , (c) 40 μM , (d) 20 μM and (e) 10 μM AA in 0.1 M Phosphate buffer (pH 4.0±0.05) containing 1 μM UA (B) DPV graphs of (a) 1.0 μM , (b) 0.7 μM , (c) 0.5 μM , (d) 0.3 μM and (e) 0.1 μM UA in 0.1 M Phosphate buffer (pH 4.0±0.05) containing 10 μM AA at the CuO/Si-NPs modified CPE. **Inset:** Respective calibration plots.

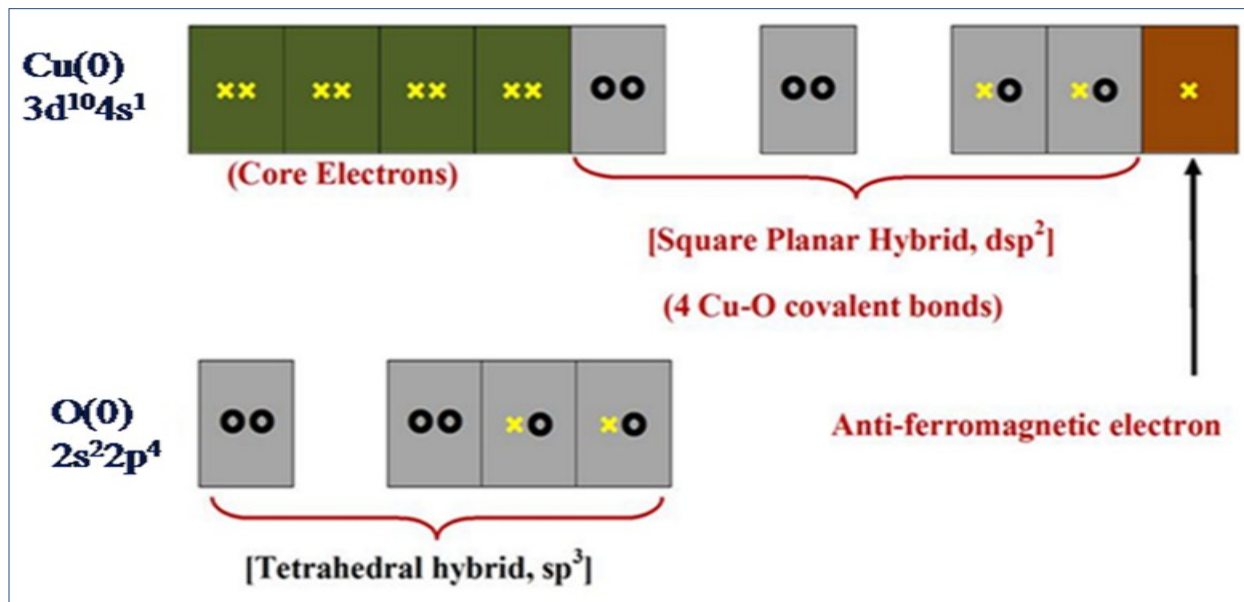


Fig. S2 Electronic structure of CuO