**Design of double-shelled CuS Nanocages to Optimize Electrocatalytic Dynamic for Sensitive Detection of Ascorbic Acid**

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Fig. S1. (a) FESEM image and (b) TEM image of 1-CuS NCs.



Fig. S2. (a) FESEM image of Cu2O



Fig. S3. CVs of bare GCE at 50 mV s-1.



Fig. S4. CVs of 50 μM AA on 2-CuS NCs/GCE at different scan rates (16, 25, 36, 49, 64, 81 and 100 mV s-1)



Fig. S5. Chronoamperograms of (a) 2-CuS NCs/GCE and (b) 1-CuS NCs/GCE in the absence and presence of 0.5 mM AA; (c) Calibration curve of *Ica*t versus *t-1/2*; (d) Calibration curve of *Icat/IL* versus *t1/2*.