Supporting Information

In situ Growth of Surfactant-Free Gold Nanoparticles on Nitrogen-Doped Graphene Quantum Dots for Electrochemical Detection of H_2O_2 in Biological Environments

Jian Ju, Wei Chen*

State Key Laboratory of Electroanalytical Chemistry, Changchun institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, Jilin, China

* Corresponding author E-mail address: weichen@ciac.ac.cn

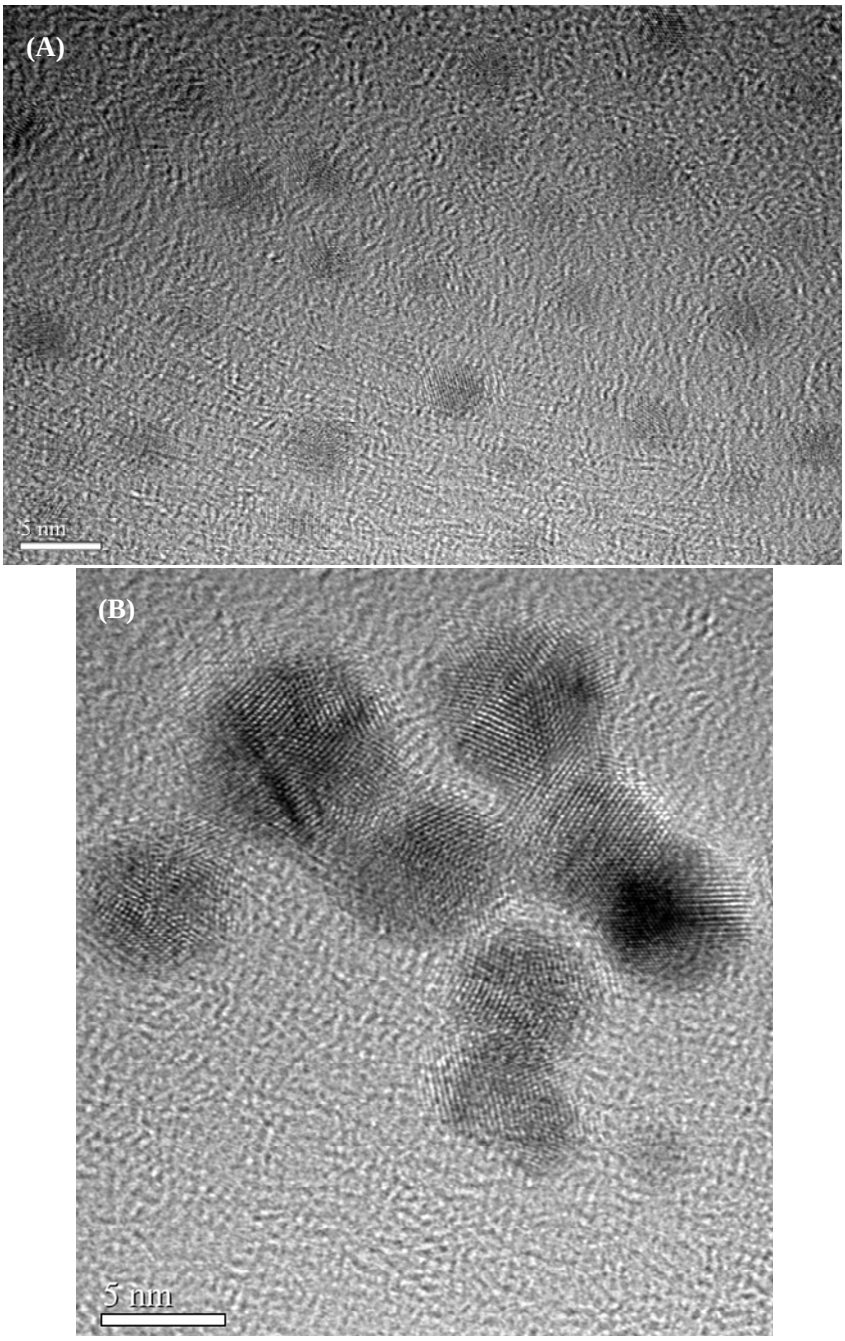

Figure S1 HRTEM images of the as-synthesized N-GQDs (A) and Au NPs-N-GQDs (B). Scale bars: 5 nm.

Table S1 Performance comparison of the nonenzymatic H_2O_2 electrochemical sensors fabricated from different Au nanomaterials

Electrode material	**Linear range (μM)**	**Detection limit (μM)**	**reference**
Au nanocages	0.5 -5888.5	0.1	1
Nanoporus Au	10 - 8000	3.26	2
Au nanoplates	100 -50000	4	3
Au nanowire	100- 800	1.2	4
AuNPs/c-MWCNT/PANI/Au	3- 600	0.3	5
Ti/TiO2/Au/HRP	5-400	2	6
Au NPs-N-GQDs	0.25 -13327	0.12	This work

References

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