

A sensitive and selective electrochemical nitrite sensor based on glassy carbon electrode modified with Cobalt phthalocyanine-supported Pd nanoparticles

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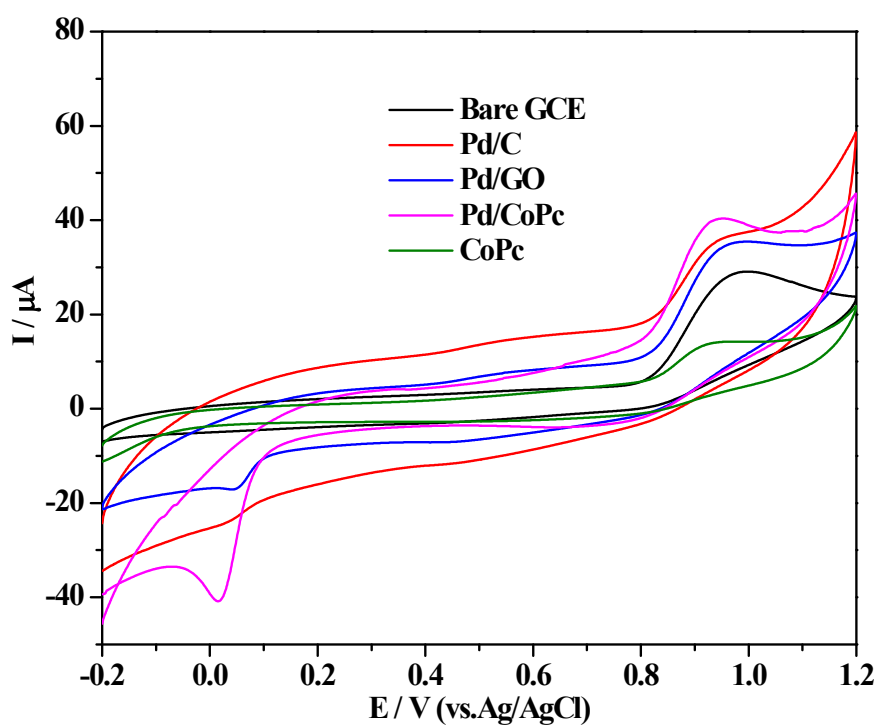


Figure S1. CV curves of bare GC electrode, Pd/C GCE, Pd/GO GCE, Pd/CoPc and

CoPc modified GCE in a 0.2 M PBS (PH=7) solution containing 1 mM NaNO₂ at a scan rate of 50 mV s⁻¹.

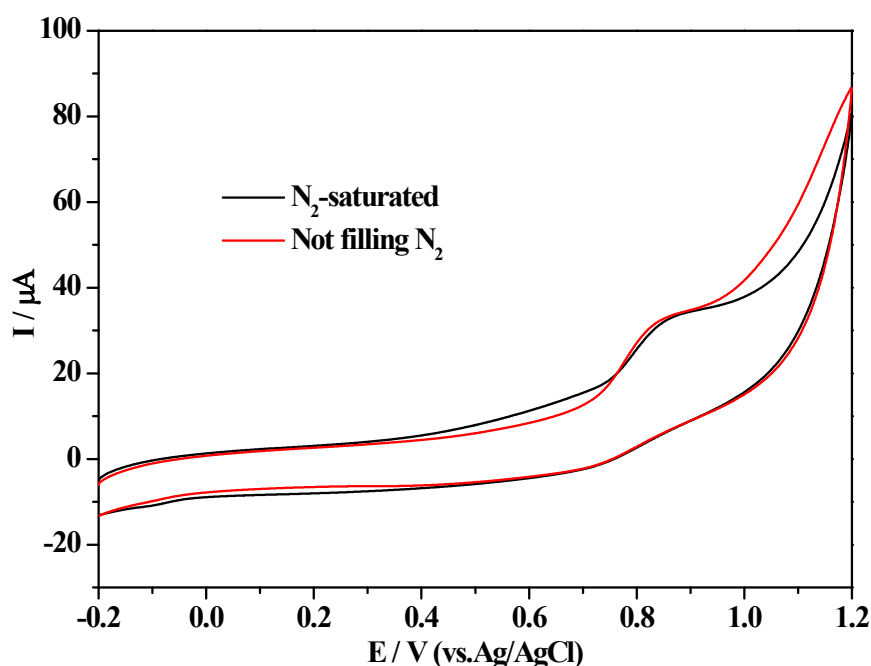


Figure S2. CV curves of Pd/CoPc modified GCE in a 0.2 M PBS (PH=7) solution containing 1 mM NaNO₂.

Table S1. Comparison of Pd/CoPc modified electrode with previous reports of various electrode for nitrite sensing.

Electrode material	Linear range(μM)	Detection limit(μM)	Sensitivity	Reference
Au/CA/Mb/MWCNT	1-280	0.1	-	[1]
MWCNTs-TiN/Cyt c	1-2000	0.0014	-	[2]
Urchin-like Pd/SWCNT	2-238	0.25	0.038 $\mu\text{A}\mu\text{M}^{-1}$	[3]
CTAB-GO/MWNT	5.0-800	1.5	-	[4]
TOSC-MoS ₂	6-3140,3140-4200	2.0	-	[5]
AgPs-ILCPE	50-1000	3	-	[6]
Fe ₃ O ₄ /MoS ₂	2-6730	1.0	-	[7]
Pd/graphite	0.3-50.7	0.071	0.0065 $\mu\text{A}\mu\text{M}^{-1}$	[8]
(CoTsPc/PDDAGr) _n	2-36	0.084	0.0053 $\mu\text{A}\mu\text{M}^{-1}$	[9]
Au-Pd/rGO	0.05-1000	0.02	-	[10]
[TMPyPcCo/aCNTs] ₁₂	5-30000	2.6	0.018 $\mu\text{A}\mu\text{M}^{-1}$	[11]
CoPcF-MWCNT	0.096-340	0.062	-	[12]
Pd/CoPc	0.2-40,500-5000	0.10	0.01 $\mu\text{A}\mu\text{M}^{-1}$	This work

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