Nanostructure	Detection limit	Linear range	Reference
AgVO ₃	5 μM (H ₂ O ₂)	0.075-0.5mM(H ₂ O ₂)	[1]
Magnetic carbon nitride	0.3 μM (H ₂ O ₂) 0.25 μM (Glucose)	-	[2]
Hemin-functionalized WS2 nanosheets	1.0 μΜ (H ₂ O ₂) 1.5 μΜ (Glucose)	5.0 - 140μΜ (H ₂ O ₂) 5.0-200 μΜ (Glucose)	[3]
Molybdenum disulfide (MoS2)	5.0 μM (H ₂ O ₂) 1.2 μM (Glucose)	5.0-100.0 μM (H2O2) 5.0-100.0 μM (Glucose)	[4]
Ce-doped Fe3O4	0.6 μΜ (H ₂ O ₂) 1.2 μΜ (Glucose)	4.0-40.0 μΜ (H2O2) 10.0-150.0 μΜ (Glucose)	This work

Table S1. Comparisons of other reported techniques for H₂O₂ and glucose detection.

[1] Zhenbo Xiang & Yi Wang & Peng Ju & Dun Zhang Microchim Acta (2016) 183:457–463

[2] Jia Chen & Qiao Chen & Junying Chen & Hongdeng Qiu Microchim Acta (2016) 183:3191-3199

[3] Qiao Chen, Jia Chen, Cunji Gao, Mingliang Zhang, Junying Chenb and Hongdeng Qiu Analyst (2015) 140: 2857-2863

[4] Tianran Lin, Liangshuang Zhong, Liangqia Guo,* Fengfu Fu and Guonan Chen Nanoscale, (2014) 6: 11856



Fig. S1. IR spectrum of the electrosynthesized Ce doped magnetite nanoparticles