

# Iodide-Mediated Etching of Gold Nanostar for the Multicolor Visual Detection of Hydrogen Peroxide

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**Table S1.** Comparative analysis of this method with other colorimetric methods for detecting H<sub>2</sub>O<sub>2</sub>.

Method	Recognition/Sensing elements	Substrate	Color changes	Limit of detection (μmol L <sup>-1</sup> )	Reference
Colorimetric	MFe <sub>2</sub> O <sub>4</sub>	OPD	Single color	30	[1]
Colorimetric	MnCo <sub>2</sub> O <sub>4</sub>	OPD	Single color	200	[2]
Colorimetric	AuAgPd TNPs	OPD	Single color	5.6	[3]
Colorimetric	Fe, N-CD	OPD	Single color	0.05	[4]
Colorimetric	PtNWs-PNFs/GO	TMB	Single color	0.0206	[5]
Colorimetric	Fe-NDs	TMB	Single color	0.3	[6]
Colorimetric	Fe-C-NNs	TMB	Single color	4.36	[7]
Colorimetric	Co <sub>3</sub> (PO <sub>4</sub> )·8H <sub>2</sub> O	TMB	Single color	4.385	[8]
Colorimetric	Au NS	Au NS	Multicolor	0.44	This work

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