A home-made nanoporous gold microsensor for lead (II) detection in seawater with high sensitivity and anti-interference property

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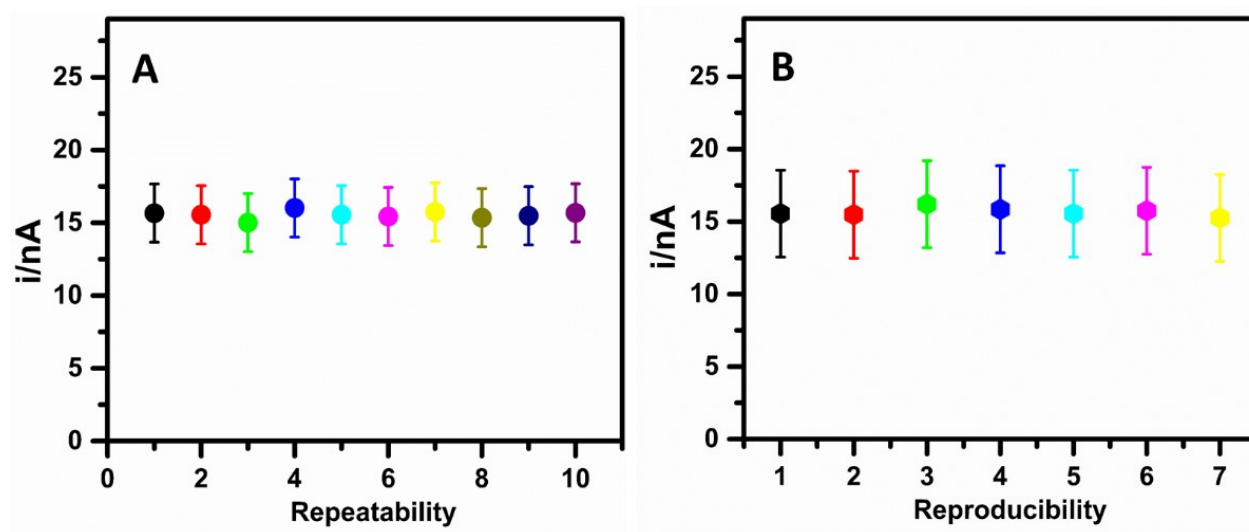*Email: anandhas2@srmist.edu.in*

Supporting Information

Fig. S1. Repeatability and reproducibility data obtained for Pb(II) detection using the NPG-µE.

Table. S1. Comparison of the analytical performance of electrochemical sensors for Pb(II) determination

Electrodes	Methods	Linear range	Detection limits (nM)	Ref.
Au-Bi bimetallic nanoparticles	DAPSV	0.1–500 µg L^{-1}	50.0	1
Bi/Au µE	SWASV	40-6700 nM	12.5	2
Bi/CFME	SWASV	50-350 nM	10.0	3
GA-CTS-CNTPE	SWAdSV	99-2000 nM	57.0	4
In-situ Bi/CFME	SWASV	50-500 nM	32.0	5
NPG/Au-µE	**SWASV**	**100-10000 nM**	**57.0**	**This work**

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Table. S2. Validation of the analytical performance with a comparative technique atomic absorption spectroscopy (AAS)).

Samples	AAS			SWASV		
	Added (µM)	Found (µM)	Recovery (%)	Added (µM)	Found (µM)	Recovery (%)
1	1	1.02	102.0	1	0.99	99.0
2	3	2.98	99.3	3	3.05	98.4
3	5	4.94	98.8	5	5.07	101.4