

Supporting information

Layered double hydroxide decorated with Ag nanodendrites as enhanced sensing platform for voltammetric determination of pyrazinamide

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Fig. S1 XRD pattern of AgNDs/LDH/GCE

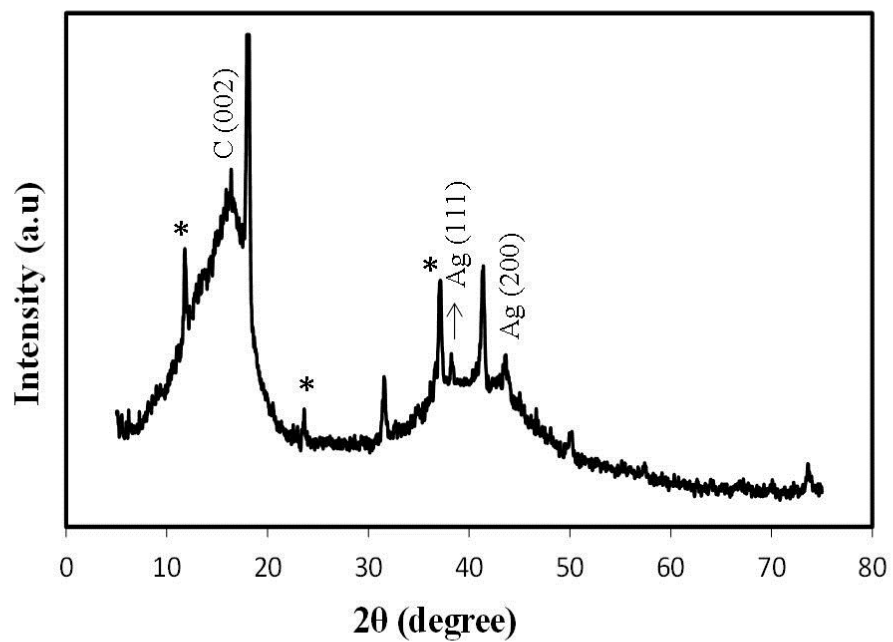


Fig. S1 presents the XRD pattern of AgNDs/LDH/GCE. Symbols of asterisk denote basal reflections from Zn–Al LDH. The peaks obtained at 38.23° and 43.64° can be assigned to diffraction from the (111), and (200) planes, respectively, of the face-centered cubic lattice of Ag (0)¹. Moreover, the (002) peak is attributed to the glassy carbon².

Table S1

The influences of some organic ions and important biological substances on the peak currents of 5.0×10^{-5} mol L⁻¹ PZA in 0.1 M PBS (pH 7)

Interferences	Concentration (mol L ⁻¹)	Signal change of PZA
K ⁺	7.5×10^{-3}	2.2%
Na ⁺	7.5×10^{-3}	-3.4%
Mg ²⁺	7.5×10^{-3}	2.8%
Cl ⁻	7.5×10^{-3}	-1.9%
SO ₄ ²⁻	7.5×10^{-3}	-3.1%
ascorbic acid	7.5×10^{-3}	-4.9%
glucose	7.5×10^{-3}	2.4%
uric acid	2.5×10^{-3}	3.8%
L-tyrosine	1.25×10^{-3}	-3.3%
isoniazid	2.5×10^{-4}	4.1%

References:

1. A. Kumaravel, M. Chandrasekaran, *Sens. Actuators B: Chem.*, 2012, 174, 380-388.
2. H. J. Cho, K. W. Lee, C. E. Lee, *Curr. Appl. Phys.* 2013, 13, 2055-2058.