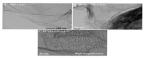
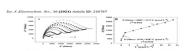
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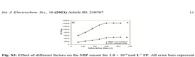


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chemical ability, resulting in extrusive existinces for its use both on food and in the environment critically, these regions came a variety of tragentees dark in human health [2–3]. Based on these critically, these regions came a variety of tragentees dark in the most health [2–3]. Based on these critically are consistent of the properties of the control of the cont







3. Effect of different factors on the MIP sensor for 1.0 × 10 ⁶ mol L³ FP. All error bars represent SD (n−3). (A) Ratio of template molecule to functional monomer; (B) Electrochemical polymerization time; (C) Adsorption time (E: 10 × 10 ⁶ mol L⁷; b; 5.0 × 10 ⁶ mol L⁷; bin L⁷ FP).

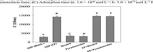


Fig. 84. Influence of similar compounds on FP. Error bars represent SD, n=3. Solution composition: (A) 1.0 × 10⁴ mol L⁴ FP, (B) 1.0 × 10⁵ mol L³ broafes, (C) 1.0 × 10⁵ mol L⁴ pyraclostrobin, (D) A + 1.0 × 10⁵ mol L⁴ broafen and (E) A + 1.0 × 10⁵ mol L⁴ pyraclostrobin.

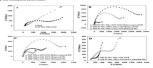
ACKNOWLEGGIAMENTS
This work was jointly supported by Yunnan Province Young Academic and Technical Lenders
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Scientific Research Fundshinton of Yunnan Education Department (2020)0072), and Scientific
Research Fund Project of Houghe University (2016)0619.

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The construction of the MIP sensor was determined and its performance was evaluated using EIS measurements. As shown in Figure 3A(a), the bare GCE presented a low value of electron-transfer resistance (Ret) (approximately 1200 Q,), however, the EIS of Pt NPs-NH₂-r-CO₂ GCE was almost a

MIP sensor data presented in Table 3, which indicated that the sensor was an eoption to detect ${\rm FP}$ in real samples.

	0.00			
		0.34		4.5
Cabbage	0.50	0.90	112	
	1.00	1.40	106	4.9 3.8
de A. LC-MS /	MS method for FP in dif	Connect comments		
Samples	Added (µmol L ⁻¹)	Found (µmol L ⁻¹)	Recovery (%)	RSD (%, n= 5)
Samples		Found (µmol L ⁻¹) 0.00	Recovery (%)	
Samples	Added (µmol L ⁻¹)	Found (jumol L ⁻¹) 0.00 0.52	104	
	Added (µmol L ⁻¹) 0.00	Found (jumol L ⁻¹) 0.00 0.52		6.3
Samples	Added (µmol L ⁻¹) 0.00 0.50	Found (jumel L ⁻¹) 0.00 0.52 1.95	104	6.3
Samples	Added (jumel L ⁻¹) 0.00 0.50 2.00	Found (jumol L ⁻¹) 0.00 0.52	104	

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sensor was prepared using the same preparation conditions as the MIP sensor, with exception that no template was used. MIP-NR₂n-GO / GCE was also fabricated identical to MIP / Pt NPs-NR₂n-GO / GCE, but its polymerized usbratte was NR₂n-GO / GCE.

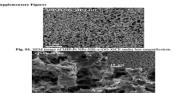


2.5. Electrochemical measurements

MB | P. Nab-NH₂-r.G.O / GCE, was immerced in a 10 mL. FP appears solution (pH=5.0) under
mild magnetic stirring to allow recognition of the template molecules. After 400 s., the MB / P. NabNH₂-r.G.O / GCE was fixed with B[O, dot immerced in a Fe(CN)₂²⁻¹ appears solution containing 2.5

mmol 1.2 KrFe(CN)₂. 2.5 mmol 1.2 KrFe(CN)₂. and 0.1 mol 1.2 KCI. This was then used as the
working electrode in subsequent electrochemical imagedunes spectroscopy (IES) measurements.

methods	Linear range (µmol L ³)	Limit of detection (µmol L ⁻¹)	Ref.
GC-MS/MS	$0.001 \sim 0.025$	0.0005	[4]
LC-MS/MS	0.0125 - 25	0.005	(5)
LC-MS/MS	0.0025 - 0.25	0.0025	[6]
LC-MS/MS	$0.00025 \sim 0.025$	0.00125	(22)
MIP sensor	0.001-13	0.0001	This work



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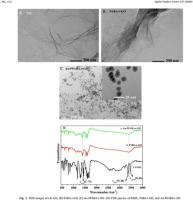
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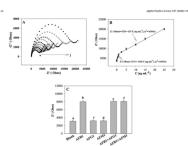


Table 1 tosay results of samples using the obtained immunosensor and HPLC method				
Samples	Insurescener		HPSC	
	Found (ng mL · ¹)	RSD (%, n = 5)	Found (rg mL-1)	RSD (%, n = 5)
1	0.025	3.7	0.022	7.6
2	0.054	4.5	0.051	6.2
3	0.015	2.6	0.013	5.9

1 项其他代表性成果

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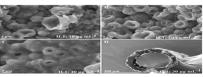
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- Institute of Quality Standards&Testing Technology for Agro-Products, Pujian Key Laboratory of Agro-Products Quality&Safety, Pujian Academy of Agricultural Sciences, Pudnou 350003, People's Republic of China

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rate of 10°C num. CC-SNS (CPC-SO16) Shimmaker, Japano (10°C) num. CC-SNS (CPC-SO16) Shimmaker, Japano (10°C) and CS-SNS (CPC-SO16) Shimmaker, Japano (10°C) and CS-SNS (CPC-SO16) Shimmaker, Japano (10°C) Shimmaker, Japano

to 140 °C at a rate of 8 °C mm² and maintained for 15 min. To 140 °C at a rate of 8 °C mm² and maintained for 15 min. Was kept at 250 °C, and the interface was set to 250 °C, and the interface was set to 250 °C, or 150 °C and the interface was set to 250 °C, and the interface was set to 250 °C, and the interface was set to 250 °C. The interface was set to 250 °C, and the interface was set to 250 °C. The interface was set in 250 °C, and in 250 °C,

Fig. 3 SEM images of PTT + H.1 coatings with different concentrations of H.1: (A) 10.000 µg md.⁻¹, (B) 20.000 µg mL⁻¹, (C) 40.000 µg ml.⁻¹, and (D) 30.000 µc md.⁻¹



stretching vibrations of NH₂. The characteristic peaks at 1572 and 741 cm $^{-1}$ corresponded to the stretching and deformation vibrations of C-N molecules, respectively [21, 22].

证 明 委托单位: 红河学院 委托人: 石玲

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Anterials and methods

Apparatus and regards

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3,2-6 striklierophene (1,2-6 TCP), 3-chlore. 4-fluorophene (1)

4,2-6 striklierophene (1,2-6 TCP), 3-chlore. 4-fluorophene (1)

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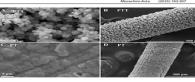
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Fig. 1 SEM images of (A and B) PTT and (C and D) PT continues



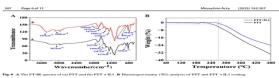


Fig. 4. The FFB spectros (sePTF and b) FTF ± Li. 8 Demogration (FQ) analysis of PTF and FTF ± Li. contage and energy dispersive spectroscopy (EDS) elementary and analysis of the properties of

Fig. 5. A Comparison of the extraction efficiency of the PT, PT.

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1 项其他代表性成果

中国科学院武汉科技查新咨询检索中心

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委托单位: 红河学院 本化サービル: 14/71 平形。 表 拖 人: 石外 技术 来来、2022 年 東東第一作者 治京 "Preparation of 3D Nanoflower-like ZnO/graphene Oxide decorated with Au@AuP Binetallic Nanoparticles for Electrochemical Determination of Doxorabicin Hydrochloride "献 SCIE 秋京与和東郷村 2022 年井根原 全版情況 SCIENCE CITATION INDEX-EXPANDED 高数 0 0 0 •相关期刊分区信息见附件 委托人接受本证明,视为巴时本证明所列论文造漏核对,确认无误,前 有不卖。由委托人承担全部责任。 万东 审核人

Int. J. Electrochem. Sci., 17 (2022) Article Number: 220144, doi: 10.20964/2022.1.45

International Journal of ELECTROCHEMICAL SCIENCE

Preparation of 3D Nanoflower-like ZnO/graphene Oxide decorated with Au@AuPt Bimetallic Nanoparticles for Electrochemical Determination of Doxorubicin Hydrochloride

Ling Shi¹, Zefeng Wang^{1,2,*}, Lae Bai¹, Guangming Yang^{1,*}

Ling air., Joing Hung: __int air. vinnigning tong: [Faighnering Beneard Centre for Processing and Quality Control of Local Characteristic Food and Consumer Goods of High Education in Yunnan Province, College of Science, Houghe University, Mangari 66 [199, PR. Chamber of Traditional Chinese Medicine (RRI), Shanqish University of Traditional Chinese Medicine, Shanqish 201203, China Framil'smargeringheri [1966] [21, 2008. pagesampningheri [22, 26, 20] [22, 20] [23, 20] [23, 20] [23, 20] [23, 20] [24, 20] [24, 20] [25,

A novel JD nanoflowe-like ZaO-graphene oxidation (3D ZaO-GO) nanocomposites were proposed for the first time by simple ageous hydrothermal method and sonochemical approach. Then the AsgiAuX PNS were decorated out 3D ZaO-GO nanocomposites to obtain a novel AugiAuXPS ZaO-GO analystrias. The dottained nanohydrish were characterized by seminial electron microscopy.

ZaO-GO analystrias. The dottained nanohydrish were characterized by seminial electron microscopy and Every difficulties. The AugiAuXPD ZaO-GO analystrias the characterized by a complete the proposed senior showed excellent electrocatalytic activity toward electrochemical condition of advancation in producedation of consortion in producedation of

Keywords: Graphene oxidation; Au nanoparticles; Pt nanoparticles; Zinc oxide; doxorubicin hydrochloride: electrochemical sensor

Doxorubicin hydrochloride was an important anticancer drug, which had been widely use atment of breast cancer, lymphoma and bladder cancer in clinical treatment [1]. However,

morphologies of Au@AuPt/3D ZnO-GO nanohybrids were further studied by transmission el microscope (JEOL 2010, operating at 200 KV). Crystalline properties of the prepared nano-ma were examined using X'Pert³ powder diffractometer (PANAlytical Company).

The Electroconsortal menturements Before the Conference of Conference of

We used human urine as real samples to determine the doxorubicin hydrochloride content by standard addition method. A certain amount of each real sample was diluted with pH+6.0 B+R buffer solution, spiked with doxorubicin hydrochlorid and then tested to measure doxorubicin hydrochlorid by DPV.

3.1. Synthesis and characterization of prepared nanos

Flower-like ZnO nanocomposites were prepared under solvothermal condition. Zn(NO),-9HO was used as reactive material, Cd1,Nx was used as uniform precipitant which recovered hydroxide sizes (OHZ), and triodom trained delytate traced as surface modification agent. In this hydrothermal process, the preparing of flower-like ZnO was nethred two-step nucleation growth process. Firstly, Cd1,Nx: one provided OHZ exceeding to the equation (1) and (2), the ZnOO),-9HO provided Zn''. The Zn(OH): can be obtained when Zn(NO),-9HO was mixed with Cd1,Nx. Because cut of cacess hydroxide ions in the solvino, the fields/prepared Zn(OH); readily pot coverted into [Zn(OHZ)²/CG2, OHZ). The the ZnO crystal nucleus were formed by the delystation reaction of [Zn(OHZ)²/CG2, OHZ).

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cinical application of doxorubicin hydrochloride was limited because of some toxic side effects including cardiotoxicity, alopecia, myelsouppression, hypoalbumiennia [2, 3]. Thus, it was necessary to monitor the doxorubinoin hydrochloride occuentations in patient's serum or unite to avoid adverse effects and cause the effectiveness of the treatment and patient safety [4, 5]. Therefore, it was ungestive effects and cause the effectiveness of the treatment and patient safety [4, 5]. Therefore, it was ungestive effects and cause the effectiveness of the treatment and patient safety [4, 5]. Therefore, it was ungestiven the excessary to devolop fast, imple, and electrive methods for detection of doxorubinish phytochloride. Electrochemical detections electricage had received a drammic growth in recent years due to wide range applications and low core [6, 7]. As well-hownon, a great diversity of nanomaterials had been entered exhibiting wunderful properties and can enhance electrochemical performance of monorous description.

apparation and arise from (1)". As well-known, a given inversity in intuitination and order of properties and one enhance decrevedential performance of representations of the proposed sensor.

Recently, Zine coxide (260) had been thought to be a preminent multifunctional material for exceptive and the contraction of the properties of the contraction of the properties of the contraction of the properties of the contraction of the contraction of the contraction of the contraction of contraction of contraction of contraction and the contraction of charge carriers which would limit in the properties (1) and the contraction contraction of charge carriers which would limit in stability, high combactivity, and high specific surface area, and would provide an exciting new array of the contraction and the contraction of the con

2. EXPERIMENTAL

2.1. Chemicals

Graphene oxidation was obtained from Jiangau XFNANO Technology Co., Ltd. Zinc nitrate hexalsylatest [Zaf(No))-eff1(e)]. hexamethylenetetranine (Caf(x,No), triodium cirate dillydrate (HOC(COON)-E/COON)-E/O.) and produces stand, polosopice acid, glasif acties acid, boric acid was evolutined from Stanghai Chemical Rengent Co. Ltd. (Shanghai, Chim). Tetrachicovarier (III) acid (HACA), beach-locylopiatic (IV) acid (HACA), oxid (HACA), acid (HACA),

Int. I. Flortrochem. Sci., 17 (2022). Article Number: 220144

Int. J. Electrochem. Sci., 17 (2022) Article Number: 220144 5

(CII₃), N₂-41(0.—48170 + 4811, Equ (1)
Nut.+1(0.—381; +0.07 Egg (2)
2a² + 22017 - 3811; +120(013), Eqg (3)
[ZaC(11), F = 220-11, 0.7 2017 Eqg (3)
[ZaC(11), F = 220-11, 0.7 2017 Eqg (3)
[ZaC(11), F = 220-11, 0.7 2017 Eqg (3)
At this stage, a large amount of ZaO expand nucleus would be produced as the reaction proceeds. The newly formed ZaO nucleus were constantly incorporated into the initial nucleus, and then annoclasters with certain orientations were formed [11]. [21]. The trisodium crinate could reduce surface energy of nasocilates and teglate nucleiton and growth of secondary structures. Then the ZaO numelous great inter a particular structure and this electing of the ZaO numolestic streads againfacturily as the reaction time increased [13]. It was noted that ZaO numolestic crossed each older structure and the side length of the ZaO numolestic streads againfacturily as the reaction time increased [13]. It was noted that ZaO numolestic crossed each older structure and the side of the ZaO numolestic crossed each older structure and the side of the ZaO numolestic crossed each older structure and the side of ZaO numolestic crossed each older structure and the side of ZaO numolestic crossed each older structure and the side of ZaO numolestic crossed each older structure and the side of ZaO numolestic crossed each older structure and the side of ZaO numolestic crossed each older structure structure. When the reaction time was opinized when the reaction time decreased a spherical number of 20 perces structure were fermed onto the surface of ZaO structure. Figure 11 Develed the ZaO obstacled of numores and thinker, fraulty, at the reaction time of 4 h, the characteristic flower-like structure was desirately and the parts of the surface of ZaO structure structure and thinker, the well-defined 30 flower-like

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acids) adjust to the desired pH with additions of 0.2 M sodium hydroxide were used as a sup-electrolyte.

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0.7317 g Za(NO)>284.O was found an one-of-ome composition
0.7317 g Za(NO)>284.O was founded in 250 m.d. ultra-pure vater in a round-bottom flack.
0.14 g Ca(3), N; was disorded at 100 ml. othis pure water and then added into the above obstions under
gamelie stirring, 0.073 g triscolomic entire deliphoris was disorded in 50 ml. other pure water and
continued adding to the above solution. The obtained mixed solutions were legal at 95 °C with constant
stirring for 2. h. The resultant 10 flowers with 250 was collected by contributions and washed with
ultra-pure water and anhydrous ethanol three times. The obtained automaterials were marked as ZaO-2.

2. In order to prepare 3D flower-like Za/O-GO nanocoposites, 10.0 mg GO was dispersed in 10 mL ultra-pure water. The mixture solutions was ultrasonicated for 1 h. Then as-prepared 30 mg 3D ZaGO was added into the GO suspension. The obtained solution was subjected to ultrasound (200 W) for 2 h at 50 °C, leading to a light gar yes olution. The obtained solution was stored at 4 °C for late use.

An ansoreds were prepared according to a modified Frem' method [10], 130 m.L. 19302 mM HAuCL; solution and 48.8 mL dints-pure water were mixed in three-secked round bottom flack. Then the obtained solution was heated to a boil. Then 0.458 mL 330 MM trisodim criters evidentions were added. The obtained solutions were vigorous stirred and refluxed for 10 min. Finally, the obtained where red dispersion was steed at 4 °C after cooling.

2.4. Synthesis of Au@AuPt NPs and Au@AuPt/3D ZnO-GO no

In a typical method, 2 mL of An nanoseods, 1.5 mL of H.PPCL (1.00 mM) and HAuCL (all-PPCL, in BlaucL; = 2:1) were mixed in three-necked round bottom flask. The resultant solution was typed at 4°C under ciprous string for 5 mis. followed by addings or 66 sml. NaBH (1.00 m Md). The mixture was strined for approximately 20 min. The resulting products were collected by contriligation and washed with ultra-pure water. Finally, the oblicant And-gla-NP Na were dispersed in 30 mL ultra-pure water. For the synthesis of And/gla-NP 200 panelybrids, 30 mL And-gla-NP Na of 10 mL 30 flower-left 20-GO Ower enrich, then the mixture adultions were ultrasonicated (200 W) for 3 h. the resulting homogeneous dispersion solutions were cultered.

2.5. Characterization of the synthesized nano-

The morphologies of the as-prepared 3D ZnO and 3D ZnO-GO nanocomposites were observed on a high resolution field emission scanning electron microscopy (SU8010, Hitachi). And the

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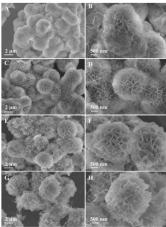


Figure 1. SEM images of 3D ZnO-1 (A and B), 3D ZnO-2 (C and D), 3D ZnO-3 (E and F), and 3D ZnO-4 (G and H), which were obtained with the reaction time of 1 h, 2 h, 3 h, and 4 h,

- 16 -