

Jianfei Xia

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

4,280
citations

94269

37
h-index

114278

63
g-index

87
all docs

87
docs citations

87
times ranked

5865
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel GO-blended PVDF ultrafiltration membranes. <i>Desalination</i> , 2012, 299, 50-54.	4.0	415
2	Facile and tunable fabrication of Fe ₃ O ₄ /graphene oxide nanocomposites and their application in the magnetic solid-phase extraction of polycyclic aromatic hydrocarbons from environmental water samples. <i>Talanta</i> , 2012, 101, 388-395.	2.9	334
3	Aptamer-functionalized metal-organic frameworks (MOFs) for biosensing. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112947.	5.3	161
4	An electrochemical sensor based on copper-based metal-organic frameworks-graphene composites for determination of dihydroxybenzene isomers in water. <i>Talanta</i> , 2018, 181, 80-86.	2.9	139
5	Gold Nanoparticle Aggregation-Induced Quantitative Photothermal Biosensing Using a Thermometer: A Simple and Universal Biosensing Platform. <i>Analytical Chemistry</i> , 2020, 92, 2739-2747.	3.2	126
6	Multiwall carbon nanotubes-poly(diallyldimethylammonium chloride)-graphene hybrid composite film for simultaneous determination of catechol and hydroquinone. <i>Sensors and Actuators B: Chemical</i> , 2015, 206, 111-118.	4.0	120
7	An ionic liquid-modified graphene based molecular imprinting electrochemical sensor for sensitive detection of bovine hemoglobin. <i>Biosensors and Bioelectronics</i> , 2014, 61, 391-396.	5.3	115
8	MOF-Derived Porous Ni ₂ P/Graphene Composites with Enhanced Electrochemical Properties for Sensitive Nonenzymatic Glucose Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39151-39160.	4.0	115
9	Competitive electrochemical aptasensor based on a cDNA-ferrocene/MXene probe for detection of breast cancer marker Mucin1. <i>Analytica Chimica Acta</i> , 2020, 1094, 18-25.	2.6	115
10	Molecularly imprinted electrochemical biosensor based on chitosan/ionic liquid-graphene composites modified electrode for determination of bovine serum albumin. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 305-311.	4.0	107
11	Synthesis of strongly green-photoluminescent graphene quantum dots for drug carrier. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 112, 192-196.	2.5	97
12	Fabrication and characterization of a triple functionalization of graphene oxide with Fe ₃ O ₄ , folic acid and doxorubicin as dual-targeted drug nanocarrier. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 106, 60-65.	2.5	92
13	Simultaneous and selective measurement of dopamine and uric acid using glassy carbon electrodes modified with a complex of gold nanoparticles and multiwall carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2069-2077.	4.0	91
14	Graphene-based solid-phase extraction disk for fast separation and preconcentration of trace polycyclic aromatic hydrocarbons from environmental water samples. <i>Journal of Separation Science</i> , 2013, 36, 1834-1842.	1.3	89
15	Hierarchical and hybrid RGO/ZIF-8 nanocomposite as electrochemical sensor for ultrasensitive determination of dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2017, 801, 496-502.	1.9	77
16	Electrodeposition one-step preparation of silver nanoparticles/carbon dots/reduced graphene oxide ternary dendritic nanocomposites for sensitive detection of doxorubicin. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 50-57.	4.0	70
17	In Situ Growth of Three-Dimensional Graphene Films for Signal-On Electrochemical Biosensing of Various Analytes. <i>Analytical Chemistry</i> , 2016, 88, 10667-10674.	3.2	62
18	Sonochemical fabrication of inorganic nanoparticles for applications in catalysis. <i>Ultrasonics Sonochemistry</i> , 2021, 71, 105384.	3.8	58

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19	Application of graphene for the SPE clean-up of organophosphorus pesticides residues from apple juices. <i>Journal of Separation Science</i> , 2014, 37, 99-105.	1.3	56
20	An electrochemical sensor based on metal-organic framework-derived porous carbon with high degree of graphitization for electroanalysis of various substances. <i>Electrochimica Acta</i> , 2017, 251, 71-80.	2.6	56
21	Stimuli-Responsive DNA-Gated Nanoscale Porous Carbon Derived from ZIF-8. <i>Advanced Functional Materials</i> , 2019, 29, 1902237.	7.8	55
22	The fabrication of poly (acridine orange)/graphene modified electrode with electrolysis micelle disruption method for selective determination of uric acid. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 131-136.	4.0	52
23	Ultrasensitive label-free homogeneous electrochemical aptasensor based on sandwich structure for thrombin detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 412-418.	4.0	49
24	A hybrid material composed of reduced graphene oxide and porous carbon prepared by carbonization of a zeolitic imidazolate framework (type ZIF-8) for voltammetric determination of chloramphenicol. <i>Mikrochimica Acta</i> , 2019, 186, 191.	2.5	49
25	Synthetic methods and potential applications of transition metal dichalcogenide/graphene nanocomposites. <i>Coordination Chemistry Reviews</i> , 2016, 326, 86-110.	9.5	48
26	Single electrode biosensor for simultaneous determination of interferon gamma and lysozyme. <i>Biosensors and Bioelectronics</i> , 2015, 68, 55-61.	5.3	47
27	High-efficiency artificial enzyme cascade bio-platform based on MOF-derived bimetal nanocomposite for biosensing. <i>Talanta</i> , 2020, 220, 121374.	2.9	46
28	Room-temperature phosphorescence logic gates developed from nucleic acid functionalized carbon dots and graphene oxide. <i>Nanoscale</i> , 2015, 7, 8289-8293.	2.8	45
29	A Novel Electrochemical Sensor Based on Copper-based Metal-Organic Framework for the Determination of Dopamine. <i>Journal of the Chinese Chemical Society</i> , 2018, 65, 743-749.	0.8	45
30	Association between Related Purine Metabolites and Diabetic Retinopathy in Type 2 Diabetic Patients. <i>International Journal of Endocrinology</i> , 2014, 2014, 1-9.	0.6	43
31	Ag ₂ Te quantum dots with compact surface coatings of multivalent polymers: Ambient one-pot aqueous synthesis and the second near-infrared bioimaging. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 115-120.	2.5	41
32	A Selective Voltammetric Method for Detecting Dopamine at Quercetin Modified Electrode Incorporating Graphene. <i>Electroanalysis</i> , 2011, 23, 2463-2471.	1.5	39
33	Nafion/polyaniline/Zeolitic Imidazolate Framework-8 nanocomposite sensor for the electrochemical determination of dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2018, 824, 147-152.	1.9	39
34	Simple homogeneous electrochemical target-responsive aptasensor based on aptamer bio-gated and porous carbon nanocontainer derived from ZIF-8. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112448.	5.3	38
35	Graphene as an efficient sorbent for the SPE of organochlorine pesticides in water samples coupled with GC-MS. <i>Journal of Separation Science</i> , 2013, 36, 3586-3591.	1.3	37
36	Facile preparation of a Pt/Prussian blue/graphene composite and its application as an enhanced catalyst for methanol oxidation. <i>Electrochimica Acta</i> , 2014, 121, 245-252.	2.6	37

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37	Amphoteric surfactant promoted three-dimensional assembly of graphene micro/nanoclusters to accommodate Pt nanoparticles for methanol oxidation. <i>Electrochimica Acta</i> , 2015, 160, 288-295.	2.6	37
38	A new dual-signalling electrochemical aptasensor with the integration of "signal on/off" and "labeling/label-free" strategies. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 166-171.	4.0	37
39	Preparation of a Pt/NiFe layered double hydroxide/reduced graphene oxide composite as an electrocatalyst for methanol oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2018, 818, 198-203.	1.9	37
40	A dual-channel homogeneous aptasensor combining colorimetric with electrochemical strategy for thrombin. <i>Biosensors and Bioelectronics</i> , 2018, 120, 15-21.	5.3	37
41	Highly dispersed ultrafine Pt nanoparticles on nickel-cobalt layered double hydroxide nanoarray for enhanced electrocatalytic methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16302-16310.	3.8	37
42	A plasmonic aptasensor for ultrasensitive detection of thrombin via arrested rolling circle amplification. <i>Chemical Communications</i> , 2015, 51, 7927-7930.	2.2	34
43	Phosphomolybdic acid functionalized graphene loading copper nanoparticles modified electrodes for non-enzymatic electrochemical sensing of glucose. <i>Analytica Chimica Acta</i> , 2016, 934, 44-51.	2.6	34
44	Facile preparation of PtPdPt/graphene nanocomposites with ultrahigh electrocatalytic performance for methanol oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2016, 761, 55-61.	1.9	34
45	Mixed ionic liquids/graphene-supported platinum nanoparticles as an electrocatalyst for methanol oxidation. <i>Electrochimica Acta</i> , 2014, 142, 167-172.	2.6	33
46	Au nanoparticles supported on functionalized two-dimensional titanium carbide for the sensitive detection of nitrite. <i>New Journal of Chemistry</i> , 2019, 43, 2464-2470.	1.4	33
47	Synergetic PtNP@Co ₃ O ₄ hollow nanopolyhedrals as peroxidase-like nanozymes for the dual-channel homogeneous biosensing of prostate-specific antigen. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 1921-1932.	1.9	32
48	A label-free immunosensor for detecting common acute lymphoblastic leukemia antigen (CD10) based on gold nanoparticles by quartz crystal microbalance. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 248-253.	4.0	31
49	A novel phosphomolybdic acid "polypyrrole/graphene composite modified electrode for sensitive determination of folic acid. <i>Journal of Electroanalytical Chemistry</i> , 2014, 726, 107-111.	1.9	29
50	Facile synthesis of PtPdPt nanocatalysts for methanol oxidation in alkaline solution. <i>Electrochimica Acta</i> , 2016, 192, 400-406.	2.6	29
51	Label-free quadruple signal amplification strategy for sensitive electrochemical p53 gene biosensing. <i>Biosensors and Bioelectronics</i> , 2016, 77, 157-163.	5.3	29
52	Biomarkers for early diagnosis of type 2 diabetic nephropathy: a study based on an integrated biomarker system. <i>Molecular BioSystems</i> , 2013, 9, 2134.	2.9	28
53	An electrochemical aptasensor based on the conversion of liquid-phase colorimetric assay into electrochemical analysis for sensitive detection of lysozyme. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2136-2142.	4.0	27
54	Two-dimensional "conjugated metal-organic framework with high electrical conductivity for electrochemical sensing. <i>Journal of the Chinese Chemical Society</i> , 2019, 66, 522-528.	0.8	27

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55	An efficient multi-enzyme cascade platform based on mesoporous metal-organic frameworks for the detection of organophosphorus and glucose. <i>Food Chemistry</i> , 2022, 381, 132282.	4.2	26
56	One-step synthesis of a Methylene Blue@ZIF-8-reduced graphene oxide nanocomposite and its application to electrochemical sensing of rutin. <i>Mikrochimica Acta</i> , 2018, 185, 279.	2.5	25
57	Promoting Nanozyme Cascade Bioplatfrom by ZIF-Derived N-Doped Porous Carbon Nanosheet-based Protein/Bimetallic Nanoparticles for Tandem Catalysis. <i>ACS Applied Bio Materials</i> , 2020, 3, 664-672.	2.3	25
58	Aptamer-functionalized hydrogel as effective anti-cancer drugs delivery agents. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 134, 40-46.	2.5	24
59	An electrochemical sensor for the sensitive detection of rutin based on a novel composite of activated silica gel and graphene. <i>RSC Advances</i> , 2015, 5, 39131-39137.	1.7	23
60	Two-photon excited quantum dots with compact surface coatings of polymer ligands used as an upconversion luminescent probe for dopamine detection in biological fluids. <i>Analyst</i> , The, 2015, 140, 2037-2043.	1.7	22
61	Molecularly imprinted electrochemical sensor based on an electrode modified with an imprinted pyrrole film immobilized on a β -cyclodextrin/gold nanoparticles/graphene layer. <i>RSC Advances</i> , 2015, 5, 82930-82935.	1.7	22
62	Modification of electrode surface with covalently functionalized graphene oxide by l-tyrosine for determination of dopamine. <i>Journal of Electroanalytical Chemistry</i> , 2015, 738, 203-208.	1.9	21
63	Electrodeposition of PtNi bimetallic nanoparticles on three-dimensional graphene for highly efficient methanol oxidation. <i>RSC Advances</i> , 2015, 5, 86578-86583.	1.7	21
64	A sandwich-like PtCo-graphene/carbon dots/graphene catalyst for efficient methanol oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2017, 802, 27-32.	1.9	20
65	A Novel Method for Bisphenol A Analysis in Dairy Products Using Graphene as an Adsorbent for Solid Phase Extraction Followed by Ion Chromatography. <i>Food Analytical Methods</i> , 2013, 6, 1537-1543.	1.3	18
66	Platinum/graphene functionalized by PDDA as a novel enzyme carrier for hydrogen peroxide biosensor. <i>Analytical Methods</i> , 2013, 5, 483-488.	1.3	17
67	Aptamer and bifunctional enzyme co-functionalized MOF-derived porous carbon for low-background electrochemical aptasensing. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6303-6312.	1.9	16
68	A novel electrochemical biosensor based on MIL-101-NH ₂ (Cr) combining target-responsive releasing and self-catalysis strategy for p53 detection. <i>Biosensors and Bioelectronics</i> , 2022, 214, 114518.	5.3	16
69	Electrochemical thrombin aptasensor based on using magnetic nanoparticles and porous carbon prepared by carbonization of a zinc(II)-2-methylimidazole metal-organic framework. <i>Mikrochimica Acta</i> , 2019, 186, 659.	2.5	15
70	Direct electrochemical deposition of polyaniline nanowire array on reduced graphene oxide modified graphite electrode for direct electron transfer biocatalysis. <i>RSC Advances</i> , 2015, 5, 93209-93214.	1.7	13
71	DNA synergistic enzyme-mediated cascade reaction for homogeneous electrochemical bioassay. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111510.	5.3	12
72	Facile sonochemistry-assisted assembly of the water-loving drug-loaded micro-organogel with thermo- and redox-sensitive behavior. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 561, 47-56.	2.3	12

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73	Metal-organic frameworks-derived bimetallic oxide composite nanozyme fiber membrane and the application to colorimetric detection of phenol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 650, 129662.	2.3	12
74	Synthesis and characterization of glycyrrhizin-decorated graphene oxide for hepatocyte-targeted delivery. <i>Comptes Rendus Chimie</i> , 2012, 15, 708-713.	0.2	10
75	Fabrication and characterization of a zirconia/multi-walled carbon nanotube mesoporous composite. <i>Materials Science and Engineering C</i> , 2013, 33, 3931-3934.	3.8	10
76	Flexible enzyme cascade sensing platform based on a G-quadruplex nanofiber biohydrogel for target colorimetric sensing. <i>Analytica Chimica Acta</i> , 2020, 1140, 10-17.	2.6	10
77	Exfoliated MOF-derived N-doped honeycomb cavernous carbon with enhanced electrocatalytic activity as electrochemical platform. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130779.	4.0	10
78	Research Progress on Pt-Based Anode Catalysts in the Direct Methanol Fuel Cell. <i>Acta Chimica Sinica</i> , 2013, 71, 20130902.	0.5	9
79	Direct energy harvesting from starch by hybrid enzymatic and non-enzymatic cascade bioanode. <i>RSC Advances</i> , 2016, 6, 26421-26424.	1.7	8
80	Simultaneous LC-UV-MS Analysis of Nine Pivotal Metabolites in Human Serum: Application to Studies of Impaired Glucose Tolerance. <i>Chromatographia</i> , 2011, 73, 149-155.	0.7	6
81	A simplistic one-pot method to produce magnetic graphene-CdS nanocomposites. <i>Comptes Rendus Chimie</i> , 2012, 15, 714-718.	0.2	6
82	Electrochemical Deposition of Graphene Supported PtCo Composite Catalysts for Electrocatalytic Methanol Oxidation. <i>Acta Chimica Sinica</i> , 2013, 71, 227.	0.5	4
83	Self-Assembled Ionic Liquid-Phosphomolybdic Acid/Reduced Graphene Oxide Composite Modified Electrode for Sensitive Determination of Dopamine. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, M3014-M3018.	0.9	3