Nan Hao

List of Publications by Year
in descending order

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104	4,392	76326	123424
papers	citations	40	61
		h-index	g-index

105	105	105	3987
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A ratiometric electrochemiluminescence detection for cancer cells using g-C 3 N 4 nanosheets and Agâ€“PAMAMâ€“luminol nanocomposites. Biosensors and Bioelectronics, 2016, 77, 76-82.	10.1	162
2	Colorimetric aptasensing of ochratoxin A using Au@Fe 3 O 4 nanoparticles as signal indicator and magnetic separator. Biosensors and Bioelectronics, 2016, 77, 1183-1191.	10.1	159
3	Ultrasensitive Electrochemical Detection For DNA Arrays Based on Silver Nanoparticle Aggregates. Analytical Chemistry, 2010, 82, 5477-5483.	6.5	154
4	Multiple signal-amplification via Ag and TiO2 decorated 3D nitrogen doped graphene hydrogel for fabricating sensitive label-free photoelectrochemical thrombin aptasensor. Biosensors and Bioelectronics, 2018, 101, 14-20.	10.1	112
5	Magneto-controlled aptasensor for simultaneous electrochemical detection of dual mycotoxins in maize using metal sulfide quantum dots coated silica as labels. Biosensors and Bioelectronics, 2017, 89, 802-809.	10.1	108
6	AgBr nanoparticles/3D nitrogen-doped graphene hydrogel for fabricating all-solid-state luminol-electrochemiluminescence Escherichia coli aptasensors. Biosensors and Bioelectronics, 2017, 97, 377-383.	10.1	105
7	Nitrogen-Doped Graphene Quantum Dots@SiO₂ Nanoparticles as Electrochemiluminescence and Fluorescence Signal Indicators for Magnetically Controlled Aptasensor with Dual Detection Channels. ACS Applied Materials & Interfaces, 2015, 7, 26865-26873.	8.0	104
8	A sensitive Potentiometric resolved ratiometric Photoelectrochemical aptasensor for Escherichia coli detection fabricated with non-metallic nanomaterials. Biosensors and Bioelectronics, 2018, 106, 57-63.	10.1	97
9	A highly sensitive ratiometric electrochemiluminescent biosensor for microRNA detection based on cyclic enzyme amplification and resonance energy transfer. Chemical Communications, 2014, 50, 14828-14830.	4.1	94
10	Engineering of Heterojunction-Mediated Biointerface for Photoelectrochemical Aptasensing: Case of Direct Z-Scheme CdTe-Bi₂S₃ Heterojunction with Improved Visible-Light-Driven Photoelectrical Conversion Efficiency. ACS Applied Materials & Interfaces, 2017, 9, 18369-18376.	8.0	94
11	Facile wet chemical method for fabricating p-type BiOBr/n-type nitrogen doped graphene composites: Efficient visible-excited charge separation, and high-performance photoelectrochemical sensing. Carbon, 2016, 102, 10-17.	10.3	90
12	Bi-color FRET from two nano-donors to a single nano-acceptor: A universal aptasensing platform for simultaneous determination of dual targets. Chemical Engineering Journal, 2020, 401, 126017.	12.7	88
13	Facile one-pot synthesis of visible light-responsive BiPO4/nitrogen doped graphene hydrogel for fabricating label-free photoelectrochemical tetracycline aptasensor. Biosensors and Bioelectronics, 2018, 111, 131-137.	10.1	87
14	Design of a Dual Channel Self-Reference Photoelectrochemical Biosensor. Analytical Chemistry, 2017, 89, 10133-10136.	6.5	86
15	Fabrication of magnetically assembled aptasensing device for label-free determination of aflatoxin B1 based on EIS. Biosensors and Bioelectronics, 2018, 108, 69-75.	10.1	83
16	Gold nanrods plasmon-enhanced photoelectrochemical aptasensing based on hematite/N-doped graphene films for ultrasensitive analysis of 17Î²-estradiol. Biosensors and Bioelectronics, 2017, 91, 706-713.	10.1	82
17	Gold nanoparticles mediated designing of versatile aptasensor for colorimetric/electrochemical dual-channel detection of aflatoxin B1. Biosensors and Bioelectronics, 2020, 166, 112443.	10.1	78
18	Recent development of electrochemiluminescence sensors for food analysis. Analytical and Bioanalytical Chemistry, 2016, 408, 7035-7048.	3.7	76

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19	Fabricating photoelectrochemical aptasensor for selectively monitoring microcystin-LR residues in fish based on visible light-responsive BiOBr nanoflakes/N-doped graphene photoelectrode. Biosensors and Bioelectronics, 2016, 81, 242-248.	10.1	74
20	Magnetically controlled fluorescence aptasensor for simultaneous determination of ochratoxin A and aflatoxin B1. Analytica Chimica Acta, 2018, 1019, 119-127.	5.4	74
21	A colorimetric biosensor for simultaneous ochratoxin A and aflatoxins B1 detection in agricultural products. Food Chemistry, 2020, 319, 126544.	8.2	73
22	Recent developments of photoelectrochemical biosensors for food analysis. Journal of Materials Chemistry B, 2019, 7, 7283-7300.	5.8	72
23	MoS2/nitrogen doped graphene hydrogels p-n heterojunction: Efficient charge transfer property for highly sensitive and selective photoelectrochemical analysis of chloramphenicol. Biosensors and Bioelectronics, 2019, 126, 463-469.	10.1	64
24	A dual target-recycling amplification strategy for sensitive detection of microRNAs based on duplex-specific nuclease and catalytic hairpin assembly. Chemical Communications, 2015, 51, 13504-13507.	4.1	62
25	A pH-Resolved Colorimetric Biosensor for Simultaneous Multiple Target Detection. ACS Sensors, 2018, 3, 2159-2165.	7.8	62
26	Resonance energy transfer from CdTe quantum dots to gold nanorods using MWCNTs/rGO nanoribbons as efficient signal amplifier for fabricating visible-light-driven â€œon-off-onâ€• photoelectrochemical acetamiprid aptasensor. Sensors and Actuators B: Chemical, 2016, 235, 647-654.	7.8	59
27	A potentiometric resolved ratiometric photoelectrochemical aptasensor. Chemical Communications, 2017, 53, 5810-5813.	4.1	57
28	Ratiometric fluorescence nanosensor for selective and visual detection of cadmium ions using quencher displacement-induced fluorescence recovery of CdTe quantum dots-based hybrid probe. Sensors and Actuators B: Chemical, 2017, 241, 1153-1160.	7.8	57
29	Engineering efficient charge transfer based on ultrathin graphite-like carbon nitride/WO 3 semiconductor nanoheterostructures for fabrication of high-performances non-enzymatic photoelectrochemical glucose sensor. Electrochimica Acta, 2016, 215, 305-312.	5.2	55
30	Three-dimensional nitrogen-doped graphene porous hydrogel fabricated biosensing platform with enhanced photoelectrochemical performance. Sensors and Actuators B: Chemical, 2017, 250, 476-483.	7.8	54
31	Oxygen Vacancy Engineering in Europia Clusters/Graphite-Like Carbon Nitride Nanostructures Induced Signal Amplification for Highly Efficient Electrochemiluminesce Aptasensing. Analytical Chemistry, 2018, 90, 3615-3620.	6.5	54
32	One-pot hydrothermal route to fabricate nitrogen doped graphene/Ag-TiO2: Efficient charge separation, and high-performance â€œon-off-onâ€•switch system based photoelectrochemical biosensing. Biosensors and Bioelectronics, 2016, 83, 149-155.	10.1	51
33	Building a Three-Dimensional Nanoâ€“Bio Interface for Aptasensing: An Analytical Methodology Based on Steric Hindrance Initiated Signal Amplification Effect. Analytical Chemistry, 2016, 88, 9622-9629.	6.5	51
34	Ultrasensitive electrochemical Ochratoxin A aptasensor based on CdTe quantum dots functionalized graphene/Au nanocomposites and magnetic separation. Journal of Electroanalytical Chemistry, 2016, 781, 332-338.	3.8	51
35	A Sunlight Powered Portable Photoelectrochemical Biosensor Based on a Potentiometric Resolve Ratiometric Principle. Analytical Chemistry, 2018, 90, 13207-13211.	6.5	49
36	Dual signal amplification coupling dual inhibition effect for fabricating photoelectrochemical chlorpyrifos biosensor. Sensors and Actuators B: Chemical, 2017, 238, 239-248.	7.8	45

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37	Porous Gold Nanocages: High Atom Utilization for Thiolated Aptamer Immobilization to Well Balance the Simplicity, Sensitivity, and Cost of Disposable Aptasensors. Analytical Chemistry, 2019, 91, 8660-8666.	6.5	45
38	Simultaneous detection of enrofloxacin and ciprofloxacin in milk using a bias potentials controlling-based photoelectrochemical aptasensor. Journal of Hazardous Materials, 2021, 416, 125988.	12.4	45
39	A disposable aptasensing device for label-free detection of fumonisin B1 by integrating PDMS film-based micro-cell and screen-printed carbon electrode. Sensors and Actuators B: Chemical, 2017, 251, 192-199.	7.8	43
40	Nitrogen functionlized graphene quantum dots/3D bismuth oxyiodine hybrid hollow microspheres as remarkable photoelectrode for photoelectrochemical sensing of chlopyrifos. Sensors and Actuators B: Chemical, 2018, 260, 1034-1042.	7.8	43
41	CeO2 nanocrystallines ensemble-on-nitrogen-doped graphene nanocomposites: one-pot, rapid synthesis and excellent electrocatalytic activity for enzymatic biosensing. Biosensors and Bioelectronics, 2017, 89, 681-688.	10.1	42
42	Ingenious Dual-Photoelectrode Internal-Driven Self-Powered Sensing Platform for the Power Generation and Simultaneous Microcystin Monitoring Based on the Membrane/Mediator-Free Photofuel Cell. Analytical Chemistry, 2019, 91, 1728-1732.	6.5	42
43	Novel Anti-Interference Strategy for a Self-Powered Sensor: Mediator-Free and Biospecific Photocathode Interface. Analytical Chemistry, 2021, 93, 12690-12697.	6.5	41
44	High-performance photoelectrochemical aptasensor for enrofloxacin based on Bi-doped ultrathin polymeric carbon nitride nanocomposites with SPR effect and carbon vacancies. Sensors and Actuators B: Chemical, 2020, 316, 128142.	7.8	40
45	Graphitic carbon nitride quantum dots in situ coupling to Bi 2 MoO 6 nanohybrids with enhanced charge transfer performance and photoelectrochemical detection of copper ion. Journal of Electroanalytical Chemistry, 2017, 787, 66-71.	3.8	39
46	Tumor-Marker-Mediated â€œon-Demandâ€•Drug Release and Real-Time Monitoring System Based on Multifunctional Mesoporous Silica Nanoparticles. Analytical Chemistry, 2014, 86, 10239-10245.	6.5	38
47	A Multiplexed Self-Powered Dual-Photoelectrode Biosensor for Detecting Dual Analytes Based on an Electron-Transfer-Regulated Conversion Strategy. Analytical Chemistry, 2021, 93, 6214-6222.	6.5	38
48	A portable solar-driven ratiometric photo-electrochromic visualization biosensor for detection of ochratoxin A. Sensors and Actuators B: Chemical, 2020, 306, 127594.	7.8	37
49	An electrochemical immunosensing method based on silver nanoparticles. Journal of Electroanalytical Chemistry, 2011, 656, 50-54.	3.8	35
50	Portable Photoelectrochromic Visualization Sensor for Detection of Chemical Oxygen Demand. Analytical Chemistry, 2020, 92, 13604-13609.	6.5	35
51	Selective and sensitive photoelectrochemical aptasensor for streptomycin detection based on Bi4VO8Br/Ti3C2 nanohybrids. Journal of Hazardous Materials, 2021, 414, 125539.	12.4	34
52	A disposable ratiometric electrochemical aptasensor with exonuclease I-powered target recycling amplification for highly sensitive detection of aflatoxin B1. Sensors and Actuators B: Chemical, 2022, 355, 131238.	7.8	34
53	An intriguing signal-off responsive photoelectrochemical aptasensor for ultrasensitive detection of microcystin-LR and its mechanism study. Sensors and Actuators B: Chemical, 2018, 259, 316-324.	7.8	33
54	One-step hydrothermal synthesis of telluride molybdenum/reduced graphene oxide with Schottky barrier for fabricating label-free photoelectrochemical profenofos aptasensor. Chemical Engineering Journal, 2021, 407, 127213.	12.7	33

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55	Photoelectrochemical CaMV35S biosensor for discriminating transgenic from non-transgenic soybean based on SiO2@CdTe quantum dots core-shell nanoparticles as signal indicators. Talanta, 2016, 161, 211-218.	5.5	32
56	A facile strategy to construct pure thiophene-sulfur-doped graphene/ZnO nanoplates sensitized structure for fabricating a novel â€œon-off-onâ€•switch photoelectrochemical aptasensor. Sensors and Actuators B: Chemical, 2017, 251, 99-107.	7.8	32
57	Integration of DNA bio-gates and duplex-specific nuclease signal amplification: towards electrochemiluminescence detection of survivin mRNA. Chemical Communications, 2015, 51, 11673-11676.	4.1	31
58	Fabrication of l -cysteine-capped CdTe quantum dots based ratiometric fluorescence nanosensor for onsite visual determination of trace TNT explosive. Analytica Chimica Acta, 2016, 946, 80-87.	5.4	29
59	A novel universal colorimetric sensor for simultaneous dual target detection through DNA-directed self-assembly of graphene oxide and magnetic separation. Chemical Communications, 2017, 53, 7096-7099.	4.1	29
60	Anchoring AgBr nanoparticles on nitrogen-doped graphene for enhancement of electrochemiluminescence and radical stability. Chemical Communications, 2015, 51, 4451-4454.	4.1	28
61	A homogeneous assay for highly sensitive detection of CaMV35S promoter in transgenic soybean by fÃ¶rster resonance energy transfer between nitrogen-doped graphene quantum dots and Ag nanoparticles. Analytica Chimica Acta, 2016, 948, 90-97.	5.4	28
62	Nanoparticles-doped induced defective ZIF-8 as the novel cathodic luminophore for fabricating high-performance electrochemiluminescence aptasensor for detection of omethoate. Biosensors and Bioelectronics, 2021, 192, 113492.	10.1	28
63	Ultrasensitive photoelectrochemical aptasensor for carbendazim detection based on in-situ constructing Schottky junction via photoreducing Pd nanoparticles onto CdS microsphere. Biosensors and Bioelectronics, 2022, 203, 114036.	10.1	28
64	Analysis of aqueous systems using all-inorganic perovskite CsPbBr3 quantum dots with stable electrochemiluminescence performance using a closed bipolar electrode. Electrochemistry Communications, 2019, 108, 106559.	4.7	27
65	Mass-produced flexible Br doped PEDOT modified carbon paper electrodes for constructing mercury ion photoelectrochemical sensor. Sensors and Actuators B: Chemical, 2021, 339, 129871.	7.8	25
66	Femtomolar sensitivity of bisphenol A photoelectrochemical aptasensor induced by visible light-driven TiO₂ nanoparticle-decorated nitrogen-doped graphene. Journal of Materials Chemistry B, 2016, 4, 6249-6257.	5.8	23
67	A sensitive photoelectrochemical (PEC) platform fabricated with nitrogen-doped graphene quantum dots decorated Bi2WO6 for detection of pentachlorophenol. Journal of Electroanalytical Chemistry, 2017, 801, 410-415.	3.8	23
68	High-Throughput Detection of Multiple Contaminants Based on Portable Photoelectrochromic Sensor Chip. Analytical Chemistry, 2021, 93, 14053-14058.	6.5	23
69	Portable Thermo-Powered High-Throughput Visual Electrochemiluminescence Sensor. Analytical Chemistry, 2013, 85, 11715-11719.	6.5	22
70	A universal photoelectrochemical biosensor for dual microRNA detection based on two CdTe nanocomposites. Journal of Materials Chemistry B, 2019, 7, 1133-1141.	5.8	22
71	Highly active metal-free peroxidase mimics based on oxygen-doped carbon nitride by promoting electron transfer capacity. Chemical Communications, 2020, 56, 1409-1412.	4.1	21
72	An ON¹â€“OFFâ€“ON² electrochemiluminescence response: combining the intermolecular specific binding with a radical scavenger. Chemical Communications, 2015, 51, 11236-11239.	4.1	20

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73	Controlling over the terminal functionalities of thiol-capped CdZnTe QDs to develop fluorescence nanosensor for selective discrimination and determination of Fe(II) ions. Sensors and Actuators B: Chemical, 2020, 322, 128636.	7.8	20
74	Bi3+ engineered black anatase titania coupled with graphene for effective tobramycin photoelectrochemical detection. Sensors and Actuators B: Chemical, 2020, 321, 128464.	7.8	20
75	Enhanced cathodic electrochemiluminescent microcystin-LR aptasensor based on surface plasmon resonance of Bi nanoparticles. Journal of Hazardous Materials, 2022, 434, 128877.	12.4	20
76	Flexibly regulated electrochemiluminescence of all-inorganic perovskite CsPbBr3 quantum dots through electron bridge to across interfaces between polar and non-polar solvents. Chinese Chemical Letters, 2021, 32, 2861-2864.	9.0	18
77	An upgraded 2D nanosheet-based FRET biosensor: insights into avoiding background and eliminating effects of background fluctuations. Chemical Communications, 2022, 58, 467-470.	4.1	18
78	High-efficient preparation and screening of electrocatalysts using a closed bipolar electrode array system. Journal of Electroanalytical Chemistry, 2019, 832, 1-6.	3.8	17
79	A dual-photoelectrode photofuel cell based self-powered aptasensor using a multimeter as a direct visual readout strategy. Chemical Communications, 2021, 57, 5973-5976.	4.1	17
80	Fabrication of label-free electrochemical impedimetric DNA biosensor for detection of genetically modified soybean by recognizing CaMV 35S promoter. Journal of Electroanalytical Chemistry, 2016, 782, 19-25.	3.8	16
81	Synergy effect of specific electrons and surface plasmonic resonance enhanced visible-light photoelectrochemical sensing for sensitive analysis of the CaMV 35S promoter. Journal of Materials Chemistry B, 2017, 5, 8999-9005.	5.8	16
82	Rapid Potentiometric Detection of Chemical Oxygen Demand Using a Portable Self-Powered Sensor Chip. Analytical Chemistry, 2021, 93, 8393-8398.	6.5	15
83	Copper(I) oxide nanospheres decorated with graphene quantum dots display improved electrocatalytic activity for enhanced luminol electrochemiluminescence. Mikrochimica Acta, 2016, 183, 1591-1599.	5.0	12
84	Ultrasensitive detection of transcription factors with a highly-efficient diaminoterephthalate fluorophore via an electrogenerated chemiluminescence strategy. Chemical Communications, 2019, 55, 11892-11895.	4.1	12
85	Exploring the entropy-driven amplification reaction and trans-cleavage activity of CRISPR-Cas12a for the development of an electrochemiluminescence biosensor for the detection of the SARS-CoV-2 RdRp gene in real samples and environmental surveillance. Environmental Science: Nano, 2022, 9, 162-172.	4.3	12
86	Remote Control of Reversible Localized Protein Adsorption in Microfluidic Devices. ACS Applied Materials & Interfaces, 2014, 6, 11869-11873.	8.0	11
87	One-pot hydrothermal synthesis of platinum nanoparticle-decorated three-dimensional nitrogen-doped graphene aerogel as a highly efficient electrocatalyst for methanol oxidation. RSC Advances, 2016, 6, 69973-69976.	3.6	11
88	Self-templating synthesis of nitrogen doped graphene quantum dots/3D bismuth oxyiodine hybrid hollow microspheres with improved visible-light excited photocurrent generation: Simultaneous electron transfer acceleration and bandgap narrowing. Journal of Alloys and Compounds, 2017, 729, 27-37.	5.5	9
89	Electric detection of DNA with PDMS microgap electrodes and silver nanoparticles. Analyst, The, 2011, 136, 540-544.	3.5	7
90	2D/2D heterojunction of ZnIn2S4/N-doped graphene nanosheets for off-type high-performance photoelectrochemical aptasensor. Sensors and Actuators B: Chemical, 2022, 367, 132033.	7.8	7

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91	Simultaneous detection of TNOS and P35S in transgenic soybean based on magnetic bicolor fluorescent probes. Talanta, 2020, 212, 120764.	5.5	6
92	Region separation type bio-photoelectrode based all-solid-state self-powered aptasensor for ochratoxin A and aflatoxin B1 detection. Sensors and Actuators B: Chemical, 2022, 364, 131897.	7.8	6
93	Photopatterning of poly(N-isopropylacrylamide) membranes for a high level of enrichment and cleanup of nucleic acids in microfluidic chips. Chemical Communications, 2014, 50, 10303.	4.1	4
94	Simulation design of a binding-pocket structure of natural enzymes in MOFs for enhanced catalytic activity. Chemical Communications, 2022, 58, 6745-6748.	4.1	4
95	Hierarchical Regulation of LaMnO₃ Dual-Pathway Strategy for Excellent Room-Temperature Organocatalytic Oxidation Performance. Inorganic Chemistry, 2022, 61, 7459-7466.	4.0	4
96	A universal microarray platform: Towards high-throughput electrochemical detection. Electrochemistry Communications, 2014, 47, 54-57.	4.7	3
97	The ethylene receptor regulates Typha angustifolia leaf aerenchyma morphogenesis and cell fate. Planta, 2019, 250, 381-390.	3.2	3
98	Characterization of the complete chloroplast genome of Lycium barbarum (Solanales: Solanaceae), a unique economic plant to China. Mitochondrial DNA Part B: Resources, 2018, 3, 1062-1063.	0.4	2
99	Abnormal tapetum development in hermaphrodites of an androdioecious tree, Tapiscia sinensis. Tree Physiology, 2019, 40, 108-118.	3.1	2
100	Complete chloroplast genome of Cinnamomum japonicum (Laurales: Lauraceae), an endangered tree species. Conservation Genetics Resources, 2019, 11, 267-269.	0.8	2
101	The complete chloroplast genome of Eurycorymbus cavaleriei (Sapindaceae), a Tertiary relic species endemic to China. Conservation Genetics Resources, 2019, 11, 283-285.	0.8	2
102	Closed Bipolar Electrode Based Fluorescence Visualization Biosensor for Anti-interference Detection of T-2 toxin. Chemical Communications, 2021, 57, 6511-6513.	4.1	2
103	Controlling the ligands of CdZnTe quantum dots to design a super simple ratiometric fluorescence nanosensor for silver ion detection. Analyst, The, 2021, 146, 5747-5755.	3.5	2
104	New Micro- and Nanotechnologies for Electrochemical Biosensor Development. , 2019, , 279-313.		1