

Nan Hao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

3,077
citations

34
h-index

51
g-index

105
ext. papers

3,693
ext. citations

7.7
avg, IF

5.61
L-index

#	Paper	IF	Citations
103	Ultrasensitive photoelectrochemical aptasensor for carbendazim detection based on in-situ constructing Schottky junction via photoreducing Pd nanoparticles onto CdS microsphere.. <i>Biosensors and Bioelectronics</i> , 2022 , 203, 114036	11.8	2
102	A disposable ratiometric electrochemical aptasensor with exonuclease I-powered target recycling amplification for highly sensitive detection of aflatoxin B1. <i>Sensors and Actuators B: Chemical</i> , 2022 , 355, 131238	8.5	3
101	Enhanced cathodic electrochemiluminescent microcystin-LR aptasensor based on surface plasmon resonance of Bi nanoparticles.. <i>Journal of Hazardous Materials</i> , 2022 , 434, 128877	12.8	3
100	Region separation type bio-photoelectrode based all-solid-state self-powered aptasensor for ochratoxin A and aflatoxin B1 detection. <i>Sensors and Actuators B: Chemical</i> , 2022 , 364, 131897	8.5	0
99	2D/2D Heterojunction of ZnIn ₂ S ₄ /N-doped Graphene Nanosheets for Off-Type High-Performance Photoelectrochemical Aptasensor. <i>Sensors and Actuators B: Chemical</i> , 2022 , 132033	8.5	1
98	An upgraded 2D nanosheet-based FRET biosensor: insights into avoiding background and eliminating effects of background fluctuations.. <i>Chemical Communications</i> , 2021 ,	5.8	4
97	High-Throughput Detection of Multiple Contaminants Based on Portable Photoelectrochromic Sensor Chip. <i>Analytical Chemistry</i> , 2021 , 93, 14053-14058	7.8	2
96	A Multiplexed Self-Powered Dual-Photoelectrode Biosensor for Detecting Dual Analytes Based on an Electron-Transfer-Regulated Conversion Strategy. <i>Analytical Chemistry</i> , 2021 , 93, 6214-6222	7.8	9
95	Rapid Potentiometric Detection of Chemical Oxygen Demand Using a Portable Self-Powered Sensor Chip. <i>Analytical Chemistry</i> , 2021 , 93, 8393-8398	7.8	3
94	Mass-produced flexible Br doped PEDOT modified carbon paper electrodes for constructing mercury ion photoelectrochemical sensor. <i>Sensors and Actuators B: Chemical</i> , 2021 , 339, 129871	8.5	9
93	One-step hydrothermal synthesis of telluride molybdenum/reduced graphene oxide with Schottky barrier for fabricating label-free photoelectrochemical profenofos aptasensor. <i>Chemical Engineering Journal</i> , 2021 , 407, 127213	14.7	14
92	Flexibly regulated electrochemiluminescence of all-inorganic perovskite CsPbBr ₃ quantum dots through electron bridge to across interfaces between polar and non-polar solvents. <i>Chinese Chemical Letters</i> , 2021 , 32, 2861-2861	8.1	5
91	Closed bipolar electrode based fluorescence visualization biosensor for anti-interference detection of T-2 toxin. <i>Chemical Communications</i> , 2021 , 57, 6511-6513	5.8	0
90	Controlling the ligands of CdZnTe quantum dots to design a super simple ratiometric fluorescence nanosensor for silver ion detection. <i>Analyst, The</i> , 2021 , 146, 5747-5755	5	
89	Selective and sensitive photoelectrochemical aptasensor for streptomycin detection based on BiVOBr/TiC nanohybrids. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125539	12.8	10
88	Simultaneous detection of enrofloxacin and ciprofloxacin in milk using a bias potentials controlling-based photoelectrochemical aptasensor. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125988	12.8	9
87	Novel Anti-Interference Strategy for a Self-Powered Sensor: Mediator-Free and Biospecific Photocathode Interface. <i>Analytical Chemistry</i> , 2021 , 93, 12690-12697	7.8	7

86	Nanoparticles-doped induced defective ZIF-8 as the novel cathodic luminophore for fabricating high-performance electrochemiluminescence aptasensor for detection of omethoate. <i>Biosensors and Bioelectronics</i> , 2021 , 192, 113492	11.8	6
85	A dual-photoelectrode photofuel cell based self-powered aptasensor using a multimeter as a direct visual readout strategy. <i>Chemical Communications</i> , 2021 , 57, 5973-5976	5.8	3
84	A colorimetric biosensor for simultaneous ochratoxin A and aflatoxins B1 detection in agricultural products. <i>Food Chemistry</i> , 2020 , 319, 126544	8.5	32
83	Bi ³⁺ engineered black anatase titania coupled with graphene for effective tobramycin photoelectrochemical detection. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128464	8.5	9
82	Bi-color FRET from two nano-donors to a single nano-acceptor: A universal aptasensing platform for simultaneous determination of dual targets. <i>Chemical Engineering Journal</i> , 2020 , 401, 126017	14.7	53
81	Simultaneous detection of TNOS and P35S in transgenic soybean based on magnetic bicolor fluorescent probes. <i>Talanta</i> , 2020 , 212, 120764	6.2	3
80	Abnormal tapetum development in hermaphrodites of an androdioecious tree, <i>Tapiscia sinensis</i> . <i>Tree Physiology</i> , 2020 , 40, 108-118	4.2	2
79	Highly active metal-free peroxidase mimics based on oxygen-doped carbon nitride by promoting electron transfer capacity. <i>Chemical Communications</i> , 2020 , 56, 1409-1412	5.8	13
78	A portable solar-driven ratiometric photo-electrochromic visualization biosensor for detection of ochratoxin A. <i>Sensors and Actuators B: Chemical</i> , 2020 , 306, 127594	8.5	21
77	Gold nanoparticles mediated designing of versatile aptasensor for colorimetric/electrochemical dual-channel detection of aflatoxin B1. <i>Biosensors and Bioelectronics</i> , 2020 , 166, 112443	11.8	28
76	Controlling over the terminal functionalities of thiol-capped CdZnTe QDs to develop fluorescence nanosensor for selective discrimination and determination of Fe(II) ions. <i>Sensors and Actuators B: Chemical</i> , 2020 , 322, 128636	8.5	12
75	Portable Photoelectrochromic Visualization Sensor for Detection of Chemical Oxygen Demand. <i>Analytical Chemistry</i> , 2020 , 92, 13604-13609	7.8	12
74	High-performance photoelectrochemical aptasensor for enrofloxacin based on Bi-doped ultrathin polymeric carbon nitride nanocomposites with SPR effect and carbon vacancies. <i>Sensors and Actuators B: Chemical</i> , 2020 , 316, 128142	8.5	23
73	Ultrasensitive detection of transcription factors with a highly-efficient diaminoterephthalate fluorophore via an electrogenerated chemiluminescence strategy. <i>Chemical Communications</i> , 2019 , 55, 11892-11895	5.8	9
72	A universal photoelectrochemical biosensor for dual microRNA detection based on two CdTe nanocomposites. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 1133-1141	7.3	18
71	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. <i>Analytical Chemistry</i> , 2019 , 91, 1728-1732	7.8	27
70	Porous Gold Nanocages: High Atom Utilization for Thiolated Aptamer Immobilization to Well Balance the Simplicity, Sensitivity, and Cost of Disposable Aptasensors. <i>Analytical Chemistry</i> , 2019 , 91, 8660-8666	7.8	25
69	The ethylene receptor regulates <i>Typha angustifolia</i> leaf aerenchyma morphogenesis and cell fate. <i>Planta</i> , 2019 , 250, 381-390	4.7	2

68	New Micro- and Nanotechnologies for Electrochemical Biosensor Development 2019 , 279-313		1
67	Analysis of aqueous systems using all-inorganic perovskite CsPbBr ₃ quantum dots with stable electrochemiluminescence performance using a closed bipolar electrode. <i>Electrochemistry Communications</i> , 2019 , 108, 106559	5.1	18
66	Recent developments of photoelectrochemical biosensors for food analysis. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 7283-7300	7.3	41
65	MoS ₂ /nitrogen doped graphene hydrogels p-n heterojunction: Efficient charge transfer property for highly sensitive and selective photoelectrochemical analysis of chloramphenicol. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 463-469	11.8	40
64	High-efficient preparation and screening of electrocatalysts using a closed bipolar electrode array system. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 832, 1-6	4.1	13
63	Complete chloroplast genome of <i>Cinnamomum japonicum</i> (Laurales: Lauraceae), an endangered tree species. <i>Conservation Genetics Resources</i> , 2019 , 11, 267-269	0.8	1
62	The complete chloroplast genome of <i>Eurycorymbus cavaleriei</i> (Sapindaceae), a Tertiary relic species endemic to China. <i>Conservation Genetics Resources</i> , 2019 , 11, 283-285	0.8	2
61	Nitrogen functionized graphene quantum dots/3D bismuth oxyiodine hybrid hollow microspheres as remarkable photoelectrode for photoelectrochemical sensing of chlpyrifos. <i>Sensors and Actuators B: Chemical</i> , 2018 , 260, 1034-1042	8.5	31
60	A sensitive Potentiometric resolved ratiometric Photoelectrochemical aptasensor for <i>Escherichia coli</i> detection fabricated with non-metallic nanomaterials. <i>Biosensors and Bioelectronics</i> , 2018 , 106, 57-63	11.8	64
59	Magnetically controlled fluorescence aptasensor for simultaneous determination of ochratoxin A and aflatoxin B1. <i>Analytica Chimica Acta</i> , 2018 , 1019, 119-127	6.6	55
58	Facile one-pot synthesis of visible light-responsive BiPO ₄ /nitrogen doped graphene hydrogel for fabricating label-free photoelectrochemical tetracycline aptasensor. <i>Biosensors and Bioelectronics</i> , 2018 , 111, 131-137	11.8	65
57	Oxygen Vacancy Engineering in Euopia Clusters/Graphite-Like Carbon Nitride Nanostructures Induced Signal Amplification for Highly Efficient Electrochemiluminesce Aptasensing. <i>Analytical Chemistry</i> , 2018 , 90, 3615-3620	7.8	34
56	An intriguing signal-off responsive photoelectrochemical aptasensor for ultrasensitive detection of microcystin-LR and its mechanism study. <i>Sensors and Actuators B: Chemical</i> , 2018 , 259, 316-324	8.5	26
55	Fabrication of magnetically assembled aptasensing device for label-free determination of aflatoxin B1 based on EIS. <i>Biosensors and Bioelectronics</i> , 2018 , 108, 69-75	11.8	61
54	Multiple signal-amplification via Ag and TiO ₂ decorated 3D nitrogen doped graphene hydrogel for fabricating sensitive label-free photoelectrochemical thrombin aptasensor. <i>Biosensors and Bioelectronics</i> , 2018 , 101, 14-20	11.8	100
53	A Sunlight Powered Portable Photoelectrochemical Biosensor Based on a Potentiometric Resolved Ratiometric Principle. <i>Analytical Chemistry</i> , 2018 , 90, 13207-13211	7.8	35
52	Characterization of the complete chloroplast genome of (Solanales: Solanaceae), a unique economic plant to China. <i>Mitochondrial DNA Part B: Resources</i> , 2018 , 3, 1062-1063	0.5	1
51	A pH-Resolved Colorimetric Biosensor for Simultaneous Multiple Target Detection. <i>ACS Sensors</i> , 2018 , 3, 2159-2165	9.2	38

50	CeO nanocrystallines ensemble-on-nitrogen-doped graphene nanocomposites: one-pot, rapid synthesis and excellent electrocatalytic activity for enzymatic biosensing. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 681-688	11.8	37
49	Gold nanorods plasmon-enhanced photoelectrochemical aptasensing based on hematite/N-doped graphene films for ultrasensitive analysis of 17 β -estradiol. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 706-713	11.8	68
48	A disposable aptasensing device for label-free detection of fumonisin B1 by integrating PDMS film-based micro-cell and screen-printed carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2017 , 251, 192-199	8.5	31
47	Engineering of Heterojunction-Mediated Biointerface for Photoelectrochemical Aptasensing: Case of Direct Z-Scheme CdTe-BiS Heterojunction with Improved Visible-Light-Driven Photoelectrical Conversion Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18369-18376	9.5	79
46	Three-dimensional nitrogen-doped graphene porous hydrogel fabricated biosensing platform with enhanced photoelectrochemical performance. <i>Sensors and Actuators B: Chemical</i> , 2017 , 250, 476-483	8.5	43
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. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 787, 66-71	4.1	30
44	AgBr nanoparticles/3D nitrogen-doped graphene hydrogel for fabricating all-solid-state luminol-electrochemiluminescence Escherichia coli aptasensors. <i>Biosensors and Bioelectronics</i> , 2017 , 97, 377-383	11.8	81
43	A facile strategy to construct pure thiophene-sulfur-doped graphene/ZnO nanoplates sensitized structure for fabricating a novel on-off-on switch photoelectrochemical aptasensor. <i>Sensors and Actuators B: Chemical</i> , 2017 , 251, 99-107	8.5	19
42	A novel universal colorimetric sensor for simultaneous dual target detection through DNA-directed self-assembly of graphene oxide and magnetic separation. <i>Chemical Communications</i> , 2017 , 53, 7096-7099	5.8	27
41	A potentiometric resolved ratiometric photoelectrochemical aptasensor. <i>Chemical Communications</i> , 2017 , 53, 5810-5813	5.8	49
40	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. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 27-37	5.7	7
39	Design of a Dual Channel Self-Reference Photoelectrochemical Biosensor. <i>Analytical Chemistry</i> , 2017 , 89, 10133-10136	7.8	73
38	A sensitive photoelectrochemical (PEC) platform fabricated with nitrogen-doped graphene quantum dots decorated Bi ₂ WO ₆ for detection of pentachlorophenol. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 801, 410-415	4.1	17
37	Synergy effect of specific electrons and surface plasmonic resonance enhanced visible-light photoelectrochemical sensing for sensitive analysis of the CaMV 35S promoter. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 8999-9005	7.3	12
36	Dual signal amplification coupling dual inhibition effect for fabricating photoelectrochemical chlorpyrifos biosensor. <i>Sensors and Actuators B: Chemical</i> , 2017 , 238, 239-248	8.5	32
35	Magneto-controlled aptasensor for simultaneous electrochemical detection of dual mycotoxins in maize using metal sulfide quantum dots coated silica as labels. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 802-809	11.8	85
34	Ratiometric fluorescence nanosensor for selective and visual detection of cadmium ions using quencher displacement-induced fluorescence recovery of CdTe quantum dots-based hybrid probe. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 1153-1160	8.5	40
33	A ratiometric electrochemiluminescence detection for cancer cells using g-C ₃ N ₄ nanosheets and Ag-PAMAM-luminol nanocomposites. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 76-82	11.8	142

32	Femtomolar sensitivity of bisphenol A photoelectrochemical aptasensor induced by visible light-driven TiO nanoparticle-decorated nitrogen-doped graphene. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6249-6257	7.3	20
31	Photoelectrochemical CaMV35S biosensor for discriminating transgenic from non-transgenic soybean based on SiO@CdTe quantum dots core-shell nanoparticles as signal indicators. <i>Talanta</i> , 2016 , 161, 211-218	6.2	25
30	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. <i>Electrochimica Acta</i> , 2016 , 215, 305-312	6.7	44
29	One-pot hydrothermal synthesis of platinum nanoparticle-decorated three-dimensional nitrogen-doped graphene aerogel as a highly efficient electrocatalyst for methanol oxidation. <i>RSC Advances</i> , 2016 , 6, 69973-69976	3.7	9
28	A homogeneous assay for highly sensitive detection of CaMV35S promoter in transgenic soybean by Förster resonance energy transfer between nitrogen-doped graphene quantum dots and Ag nanoparticles. <i>Analytica Chimica Acta</i> , 2016 , 948, 90-97	6.6	19
27	Resonance energy transfer from CdTe quantum dots to gold nanorods using MWCNTs/rGO nanoribbons as efficient signal amplifier for fabricating visible-light-driven "on-off-on" photoelectrochemical acetamiprid aptasensor. <i>Sensors and Actuators B: Chemical</i> , 2016 , 235, 647-654	8.5	50
26	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. <i>Carbon</i> , 2016 , 102, 10-17	10.4	71
25	Colorimetric aptasensing of ochratoxin A using Au@Fe ₃ O ₄ nanoparticles as signal indicator and magnetic separator. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 1183-91	11.8	122
24	Copper(I) oxide nanospheres decorated with graphene quantum dots display improved electrocatalytic activity for enhanced luminol electrochemiluminescence. <i>Mikrochimica Acta</i> , 2016 , 183, 1591-1599	5.8	12
23	Fabricating photoelectrochemical aptasensor for selectively monitoring microcystin-LR residues in fish based on visible light-responsive BiOBr nanoflakes/N-doped graphene photoelectrode. <i>Biosensors and Bioelectronics</i> , 2016 , 81, 242-248	11.8	66
22	Recent development of electrochemiluminescence sensors for food analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 7035-48	4.4	52
21	One-pot hydrothermal route to fabricate nitrogen doped graphene/Ag-TiO ₂ : Efficient charge separation, and high-performance "on-off-on" switch system based photoelectrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2016 , 83, 149-55	11.8	43
20	Building a Three-Dimensional Nano-Bio Interface for Aptasensing: An Analytical Methodology Based on Steric Hindrance Initiated Signal Amplification Effect. <i>Analytical Chemistry</i> , 2016 , 88, 9622-9629	7.8	44
19	Fabrication of l-cysteine-capped CdTe quantum dots based ratiometric fluorescence nanosensor for onsite visual determination of trace TNT explosive. <i>Analytica Chimica Acta</i> , 2016 , 946, 80-87	6.6	25
18	Ultrasensitive electrochemical Ochratoxin A aptasensor based on CdTe quantum dots functionalized graphene/Au nanocomposites and magnetic separation. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 781, 332-338	4.1	44
17	Fabrication of label-free electrochemical impedimetric DNA biosensor for detection of genetically modified soybean by recognizing CaMV 35S promoter. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 782, 19-25	4.1	12
16	An ON(1)-OFF-ON(2) electrochemiluminescence response: combining the intermolecular specific binding with a radical scavenger. <i>Chemical Communications</i> , 2015 , 51, 11236-9	5.8	19
15	A dual target-recycling amplification strategy for sensitive detection of microRNAs based on duplex-specific nuclease and catalytic hairpin assembly. <i>Chemical Communications</i> , 2015 , 51, 13504-7	5.8	56

14	Nitrogen-Doped Graphene Quantum Dots@SiO ₂ Nanoparticles as Electrochemiluminescence and Fluorescence Signal Indicators for Magnetically Controlled Aptasensor with Dual Detection Channels. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26865-73	9.5	80
13	Integration of DNA bio-gates and duplex-specific nuclease signal amplification: towards electrochemiluminescence detection of survivin mRNA. <i>Chemical Communications</i> , 2015 , 51, 11673-6	5.8	27
12	Anchoring AgBr nanoparticles on nitrogen-doped graphene for enhancement of electrochemiluminescence and radical stability. <i>Chemical Communications</i> , 2015 , 51, 4451-4	5.8	26
11	Photopatterning of poly(N-isopropylacrylamide) membranes for a high level of enrichment and cleanup of nucleic acids in microfluidic chips. <i>Chemical Communications</i> , 2014 , 50, 10303-6	5.8	3
10	Remote control of reversible localized protein adsorption in microfluidic devices. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11869-73	9.5	10
9	A universal microarray platform: Towards high-throughput electrochemical detection. <i>Electrochemistry Communications</i> , 2014 , 47, 54-57	5.1	3
8	Tumor-marker-mediated "on-demand" drug release and real-time monitoring system based on multifunctional mesoporous silica nanoparticles. <i>Analytical Chemistry</i> , 2014 , 86, 10239-45	7.8	34
7	A highly sensitive ratiometric electrochemiluminescent biosensor for microRNA detection based on cyclic enzyme amplification and resonance energy transfer. <i>Chemical Communications</i> , 2014 , 50, 14828-30	5.8	84
6	Portable thermo-powered high-throughput visual electrochemiluminescence sensor. <i>Analytical Chemistry</i> , 2013 , 85, 11715-9	7.8	21
5	Electric detection of DNA with PDMS microgap electrodes and silver nanoparticles. <i>Analyst, The</i> , 2011 , 136, 540-4	5	7
4	An electrochemical immunosensing method based on silver nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 656, 50-54	4.1	29
3	Ultrasensitive electrochemical detection for DNA arrays based on silver nanoparticle aggregates. <i>Analytical Chemistry</i> , 2010 , 82, 5477-83	7.8	140
2	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. <i>Environmental Science: Nano</i> ,	7.1	3
1	Simulation design of natural enzyme binding pocket structure in MOFs for enhanced catalytic activity. <i>Chemical Communications</i> ,	5.8	