

Nan Hao

List of Publications by Year in descending order

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104
papers

4,392
citations

76196

40
h-index

123241

61
g-index

105
all docs

105
docs citations

105
times ranked

3987
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	5.3	162
2	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, 1183-1191.	5.3	159
3	Ultrasensitive Electrochemical Detection For DNA Arrays Based on Silver Nanoparticle Aggregates. <i>Analytical Chemistry</i> , 2010, 82, 5477-5483.	3.2	154
4	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.	5.3	112
5	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.	5.3	108
6	AgBr nanoparticles/3D nitrogen-doped graphene hydrogel for fabricating all-solid-state luminol-electrochemiluminescence <i>Escherichia coli</i> aptasensors. <i>Biosensors and Bioelectronics</i> , 2017, 97, 377-383.	5.3	105
7	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, 26865-26873.	4.0	104
8	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.	5.3	97
9	A highly sensitive ratiometric electrochemiluminescent biosensor for microRNA detection based on cyclic enzyme amplification and resonance energy transfer. <i>Chemical Communications</i> , 2014, 50, 14828-14830.	2.2	94
10	Engineering of Heterojunction-Mediated Biointerface for Photoelectrochemical Aptasensing: Case of Direct Z-Scheme CdTe-Bi ₂ S ₃ Heterojunction with Improved Visible-Light-Driven Photoelectrical Conversion Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18369-18376.	4.0	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. <i>Carbon</i> , 2016, 102, 10-17.	5.4	90
12	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.	6.6	88
13	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.	5.3	87
14	Design of a Dual Channel Self-Reference Photoelectrochemical Biosensor. <i>Analytical Chemistry</i> , 2017, 89, 10133-10136.	3.2	86
15	Fabrication of magnetically assembled aptasensing device for label-free determination of aflatoxin B ₁ based on EIS. <i>Biosensors and Bioelectronics</i> , 2018, 108, 69-75.	5.3	83
16	Gold nanrods 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.	5.3	82
17	Gold nanoparticles mediated designing of versatile aptasensor for colorimetric/electrochemical dual-channel detection of aflatoxin B ₁ . <i>Biosensors and Bioelectronics</i> , 2020, 166, 112443.	5.3	78
18	Recent development of electrochemiluminescence sensors for food analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7035-7048.	1.9	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. <i>Biosensors and Bioelectronics</i> , 2016, 81, 242-248.	5.3	74
20	Magnetically controlled fluorescence aptasensor for simultaneous determination of ochratoxin A and aflatoxin B1. <i>Analytica Chimica Acta</i> , 2018, 1019, 119-127.	2.6	74
21	A colorimetric biosensor for simultaneous ochratoxin A and aflatoxins B1 detection in agricultural products. <i>Food Chemistry</i> , 2020, 319, 126544.	4.2	73
22	Recent developments of photoelectrochemical biosensors for food analysis. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7283-7300.	2.9	72
23	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.	5.3	64
24	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, 13504-13507.	2.2	62
25	A pH-Resolved Colorimetric Biosensor for Simultaneous Multiple Target Detection. <i>ACS Sensors</i> , 2018, 3, 2159-2165.	4.0	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 "on-off-on" photoelectrochemical acetamiprid aptasensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 647-654.	4.0	59
27	A potentiometric resolved ratiometric photoelectrochemical aptasensor. <i>Chemical Communications</i> , 2017, 53, 5810-5813.	2.2	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. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 1153-1160.	4.0	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. <i>Electrochimica Acta</i> , 2016, 215, 305-312.	2.6	55
30	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.	4.0	54
31	Oxygen Vacancy Engineering in Europia Clusters/Graphite-Like Carbon Nitride Nanostructures Induced Signal Amplification for Highly Efficient Electrochemiluminesce Aptasensing. <i>Analytical Chemistry</i> , 2018, 90, 3615-3620.	3.2	54
32	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, 149-155.	5.3	51
33	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.	3.2	51
34	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.	1.9	51
35	A Sunlight Powered Portable Photoelectrochemical Biosensor Based on a Potentiometric Resolve Ratiometric Principle. <i>Analytical Chemistry</i> , 2018, 90, 13207-13211.	3.2	49
36	Dual signal amplification coupling dual inhibition effect for fabricating photoelectrochemical chlorpyrifos biosensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 239-248.	4.0	45

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55	Photoelectrochemical CaMV35S biosensor for discriminating transgenic from non-transgenic soybean based on SiO ₂ @CdTe quantum dots core-shell nanoparticles as signal indicators. <i>Talanta</i> , 2016, 161, 211-218.	2.9	32
56	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.	4.0	32
57	Integration of DNA bio-gates and duplex-specific nuclease signal amplification: towards electrochemiluminescence detection of survivin mRNA. <i>Chemical Communications</i> , 2015, 51, 11673-11676.	2.2	31
58	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.	2.6	29
59	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.	2.2	29
60	Anchoring AgBr nanoparticles on nitrogen-doped graphene for enhancement of electrochemiluminescence and radical stability. <i>Chemical Communications</i> , 2015, 51, 4451-4454.	2.2	28
61	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.	2.6	28
62	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.	5.3	28
63	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.	5.3	28
64	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.	2.3	27
65	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.	4.0	25
66	Femtomolar sensitivity of bisphenol A photoelectrochemical aptasensor induced by visible light-driven TiO ₂ nanoparticle-decorated nitrogen-doped graphene. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6249-6257.	2.9	23
67	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.	1.9	23
68	High-Throughput Detection of Multiple Contaminants Based on Portable Photoelectrochromic Sensor Chip. <i>Analytical Chemistry</i> , 2021, 93, 14053-14058.	3.2	23
69	Portable Thermo-Powered High-Throughput Visual Electrochemiluminescence Sensor. <i>Analytical Chemistry</i> , 2013, 85, 11715-11719.	3.2	22
70	A universal photoelectrochemical biosensor for dual microRNA detection based on two CdTe nanocomposites. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1133-1141.	2.9	22
71	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.	2.2	21
72	An ON ¹ "OFF" ON ² electrochemiluminescence response: combining the intermolecular specific binding with a radical scavenger. <i>Chemical Communications</i> , 2015, 51, 11236-11239.	2.2	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. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128636.	4.0	20
74	Bi ³⁺ engineered black anatase titania coupled with graphene for effective tobramycin photoelectrochemical detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128464.	4.0	20
75	Enhanced cathodic electrochemiluminescent microcystin-LR aptasensor based on surface plasmon resonance of Bi nanoparticles. <i>Journal of Hazardous Materials</i> , 2022, 434, 128877.	6.5	20
76	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, 2861-2864.	4.8	18
77	An upgraded 2D nanosheet-based FRET biosensor: insights into avoiding background and eliminating effects of background fluctuations. <i>Chemical Communications</i> , 2022, 58, 467-470.	2.2	18
78	High-efficient preparation and screening of electrocatalysts using a closed bipolar electrode array system. <i>Journal of Electroanalytical Chemistry</i> , 2019, 832, 1-6.	1.9	17
79	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.	2.2	17
80	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.	1.9	16
81	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.	2.9	16
82	Rapid Potentiometric Detection of Chemical Oxygen Demand Using a Portable Self-Powered Sensor Chip. <i>Analytical Chemistry</i> , 2021, 93, 8393-8398.	3.2	15
83	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.	2.5	12
84	Ultrasensitive detection of transcription factors with a highly-efficient diaminoterephthalate fluorophore via an electrogenerated chemiluminescence strategy. <i>Chemical Communications</i> , 2019, 55, 11892-11895.	2.2	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. <i>Environmental Science: Nano</i> , 2022, 9, 162-172.	2.2	12
86	Remote Control of Reversible Localized Protein Adsorption in Microfluidic Devices. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11869-11873.	4.0	11
87	One-pot hydrothermal synthesis of platinum nanoparticle-decorated three-dimensional nitrogen-doped graphene aerogel as a highly efficient electrocatalyst for methanol oxidation. <i>RSC Advances</i> , 2016, 6, 69973-69976.	1.7	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. <i>Journal of Alloys and Compounds</i> , 2017, 729, 27-37.	2.8	9
89	Electric detection of DNA with PDMS microgap electrodes and silver nanoparticles. <i>Analyst</i> , The, 2011, 136, 540-544.	1.7	7
90	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, 367, 132033.	4.0	7

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91	Simultaneous detection of TNOS and P35S in transgenic soybean based on magnetic bicolor fluorescent probes. <i>Talanta</i> , 2020, 212, 120764.	2.9	6
92	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.	4.0	6
93	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.	2.2	4
94	Simulation design of a binding-pocket structure of natural enzymes in MOFs for enhanced catalytic activity. <i>Chemical Communications</i> , 2022, 58, 6745-6748.	2.2	4
95	Hierarchical Regulation of LaMnO ₃ Dual-Pathway Strategy for Excellent Room-Temperature Organocatalytic Oxidation Performance. <i>Inorganic Chemistry</i> , 2022, 61, 7459-7466.	1.9	4
96	A universal microarray platform: Towards high-throughput electrochemical detection. <i>Electrochemistry Communications</i> , 2014, 47, 54-57.	2.3	3
97	The ethylene receptor regulates <i>Typha angustifolia</i> leaf aerenchyma morphogenesis and cell fate. <i>Planta</i> , 2019, 250, 381-390.	1.6	3
98	Characterization of the complete chloroplast genome of <i>Lycium barbarum</i> (Solanales: Solanaceae), a unique economic plant to China. <i>Mitochondrial DNA Part B: Resources</i> , 2018, 3, 1062-1063.	0.2	2
99	Abnormal tapetum development in hermaphrodites of an androdioecious tree, <i>Tapiscia sinensis</i> . <i>Tree Physiology</i> , 2019, 40, 108-118.	1.4	2
100	Complete chloroplast genome of <i>Cinnamomum japonicum</i> (Laurales: Lauraceae), an endangered tree species. <i>Conservation Genetics Resources</i> , 2019, 11, 267-269.	0.4	2
101	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.	0.4	2
102	Closed Bipolar Electrode Based Fluorescence Visualization Biosensor for Anti-interference Detection of T-2 toxin. <i>Chemical Communications</i> , 2021, 57, 6511-6513.	2.2	2
103	Controlling the ligands of CdZnTe quantum dots to design a super simple ratiometric fluorescence nanosensor for silver ion detection. <i>Analyst</i> , 2021, 146, 5747-5755.	1.7	2
104	New Micro- and Nanotechnologies for Electrochemical Biosensor Development. , 2019, , 279-313.		1