Yuting Yan

List of Publications by Year
in descending order

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82	4,128	76326	118850
papers	citations	40 h-index	62 g-index

82	82	82	4818
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced non-enzymatic glucose sensing based on copper nanoparticles decorated nitrogen-doped graphene. Biosensors and Bioelectronics, 2014, 54, 273-278.	10.1	215
2	Visible light photoelectrochemical sensor for ultrasensitive determination of dopamine based on synergistic effect of graphene quantum dots and TiO 2 nanoparticles. Analytica Chimica Acta, 2015, 853, 258-264.	5.4	148
3	Label-free impedimetric aptasensor for detection of femtomole level acetamiprid using gold nanoparticles decorated multiwalled carbon nanotube-reduced graphene oxide nanoribbon composites. Biosensors and Bioelectronics, 2015, 70, 122-129.	10.1	127
4	A facile label-free colorimetric aptasensor for acetamiprid based on the peroxidase-like activity of hemin-functionalized reduced graphene oxide. Biosensors and Bioelectronics, 2015, 65, 39-46.	10.1	123
5	Boosting the Visible-Light Photoactivity of BiOCl/BiVO₄/N-GQD Ternary Heterojunctions Based on Internal Z-Scheme Charge Transfer of N-GQDs: Simultaneous Band Gap Narrowing and Carrier Lifetime Prolonging. ACS Applied Materials & Interfaces, 2017, 9, 38832-38841.	8.0	119
6	Graphene enhanced electrochemiluminescence of CdS nanocrystal for H2O2 sensing. Talanta, 2010, 82, 372-376.	5.5	116
7	Amplified impedimetric aptasensor based on gold nanoparticles covalently bound graphene sheet for the picomolar detection of ochratoxin A. Analytica Chimica Acta, 2014, 806, 128-135.	5.4	115
8	One-Step Thermal-Treatment Route to Fabricate Well-Dispersed ZnO Nanocrystals on Nitrogen-Doped Graphene for Enhanced Electrochemiluminescence and Ultrasensitive Detection of Pentachlorophenol. ACS Applied Materials & Interfaces, 2015, 7, 3093-3100.	8.0	110
9	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
10	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
11	Atmospheric pressure synthesis of nitrogen doped graphene quantum dots for fabrication of BiOBr nanohybrids with enhanced visible-light photoactivity and photostability. Carbon, 2016, 96, 1157-1165.	10.3	104
12	Magnetic-fluorescent-targeting multifunctional aptasensorfor highly sensitive and one-step rapid detection of ochratoxin A. Biosensors and Bioelectronics, 2015, 68, 783-790.	10.1	92
13	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
14	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
15	Facile preparation of Fe3O4 nanospheres/reduced graphene oxide nanocomposites with high peroxidase-like activity for sensitive and selective colorimetric detection of acetylcholine. Sensors and Actuators B: Chemical, 2014, 201, 160-166.	7.8	86
16	Label-free colorimetric aptasensor for sensitive detection of ochratoxin A utilizing hybridization chain reaction. Analytica Chimica Acta, 2015, 860, 83-88.	5.4	86
17	New Insights toward Efficient Charge-Separation Mechanism for High-Performance Photoelectrochemical Aptasensing: Enhanced Charge-Carrier Lifetime via Coupling Ultrathin MoS₂ Nanoplates with Nitrogen-Doped Graphene Quantum Dots. Analytical Chemistry, 2017, 89, 4525-4531.	6.5	85
18	Onsite naked eye determination of cysteine and homocysteine using quencher displacement-induced fluorescence recovery of the dual-emission hybrid probes with desired intensity ratio. Biosensors and Bioelectronics, 2015, 65, 83-90.	10.1	79

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19	One-pot synthesis of BiPO₄ functionalized reduced graphene oxide with enhanced photoelectrochemical performance for selective and sensitive detection of chlorpyrifos. Journal of Materials Chemistry A, 2015, 3, 13671-13678.	10.3	78
20	Effective amperometric biosensor for carbaryl detection based on covalent immobilization acetylcholinesterase on multiwall carbon nanotubes/graphene oxide nanoribbons nanostructure. Journal of Electroanalytical Chemistry, 2015, 740, 8-13.	3.8	77
21	Magnetically controlled fluorescence aptasensor for simultaneous determination of ochratoxin A and aflatoxin B1. Analytica Chimica Acta, 2018, 1019, 119-127.	5.4	74
22	Design and construction of Z-scheme Bi2S3/nitrogen-doped graphene quantum dots: Boosted photoelectric conversion efficiency for high-performance photoelectrochemical aptasensing of sulfadimethoxine. Biosensors and Bioelectronics, 2019, 130, 230-235.	10.1	67
23	Ultrasensitive electrochemical aptasensor for ochratoxin A based on two-level cascaded signal amplification strategy. Bioelectrochemistry, 2014, 96, 7-13.	4.6	65
24	Enhanced wet hydrogen peroxide catalytic oxidation performances based on CuS nanocrystals/reduced graphene oxide composites. Applied Surface Science, 2014, 288, 633-640.	6.1	64
25	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
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	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
28	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
29	Fabrication of graphene oxide decorated with nitrogen-doped graphene quantum dots and its enhanced electrochemiluminescence for ultrasensitive detection of pentachlorophenol. Analyst, The, 2015, 140, 1253-1259.	3.5	53
30	A highly sensitive signal-amplified gold nanoparticle-based electrochemical immunosensor for dibutyl phthalate detection. Biosensors and Bioelectronics, 2017, 91, 199-202.	10.1	52
31	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
32	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
33	Magnetically Separable Fe3O4 Nanoparticles-Decorated Reduced Graphene Oxide Nanocomposite for Catalytic Wet Hydrogen Peroxide Oxidation. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 907-916.	3.7	50
34	Amplified solid-state electrochemiluminescence detection of cholesterol in near-infrared range based on CdTe quantum dots decorated multiwalled carbon nanotubes@reduced graphene oxide nanoribbons. Biosensors and Bioelectronics, 2015, 73, 221-227.	10.1	49
35	Fluorescent â€œon-off-onâ€•switching sensor based on CdTe quantum dots coupled with multiwalled carbon nanotubes@graphene oxide nanoribbons for simultaneous monitoring of dual foreign DNAs in transgenic soybean. Biosensors and Bioelectronics, 2017, 92, 26-32.	10.1	46
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	Preparation of graphene quantum dots based core-satellite hybrid spheres and their use as the ratiometric fluorescence probe for visual determination of mercury(II) ions. Analytica Chimica Acta, 2015, 888, 173-181.	5.4	44
38	Sensitive electrochemical sensing for polycyclic aromatic amines based on a novel coreâ€“shell multiwalled carbon nanotubes@ graphene oxide nanoribbons heterostructure. Analytica Chimica Acta, 2014, 845, 30-37.	5.4	43
39	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
40	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
41	Hydrothermal growth of MnO₂/RGO/Ni(OH)₂ on nickel foam with superior supercapacitor performance. RSC Advances, 2015, 5, 62571-62576.	3.6	40
42	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
43	A sensitive and stable visible-light-driven photoelectrochemical aptasensor for determination of oxytetracycline in tomato samples. Journal of Hazardous Materials, 2020, 398, 122944.	12.4	39
44	Polyoxometalate@magnetic graphene as versatile immobilization matrix of Ru(bpy)32+ for sensitive magneto-controlled electrochemiluminescence sensor and its application in biosensing. Biosensors and Bioelectronics, 2014, 57, 149-156.	10.1	38
45	Selective and sensitive photoelectrochemical aptasensor for streptomycin detection based on Bi4VO8Br/Ti3C2 nanohybrids. Journal of Hazardous Materials, 2021, 414, 125539.	12.4	34
46	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
47	Core-shell LaFeO3@g-C3N4 p-n heterostructure with improved photoelectrochemical performance for fabricating streptomycin aptasensor. Applied Surface Science, 2020, 511, 145571.	6.1	33
48	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
49	Enhanced peroxydisulfate electrochemiluminescence for dopamine biosensing based on Au nanoparticle decorated reduced graphene oxide. Analyst, The, 2013, 138, 7101.	3.5	31
50	Controllable ionic liquid-assisted electrochemical exfoliation of carbon fibers for the green and large-scale preparation of functionalized graphene quantum dots endowed with multicolor emission and size tunability. Journal of Materials Chemistry C, 2017, 5, 6092-6100.	5.5	30
51	Ternary heterojunctions composed of BiOCl, BiVO4 and nitrogen-doped carbon quantum dots for use in photoelectrochemical sensing: effective charge separation and application to ultrasensitive sensing of dopamine. Mikrochimica Acta, 2017, 184, 4827-4833.	5.0	30
52	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
53	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
54	Determination of pentachlorophenol by anodic electrochemiluminescence of Ru(bpy)₃²⁺ based on nitrogen-doped graphene quantum dots as co-reactant. RSC Advances, 2017, 7, 50634-50642.	3.6	26

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55	An ultrasensitive competitive immunosensor using silica nanoparticles as an enzyme carrier for simultaneous impedimetric detection of tetrabromobisphenol A bis(2-hydroxyethyl) ether and tetrabromobisphenol A mono(hydroxyethyl) ether. Biosensors and Bioelectronics, 2018, 105, 77-80.	10.1	26
56	A Green, Simple, and Rapid Detection for Amaranth in Candy Samples Based on the Fluorescence Quenching of Nitrogen-Doped Graphene Quantum Dots. Food Analytical Methods, 2019, 12, 1658-1665.	2.6	25
57	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
58	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
59	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
60	Enhanced amperometric sensing for direct detection of nitenpyram via synergistic effect of copper nanoparticles and nitrogen-doped graphene. Journal of Electroanalytical Chemistry, 2014, 734, 25-30.	3.8	22
61	A novel electrochemical immunosensor based on catalase functionalized AuNPs-loaded self-assembled polymer nanospheres for ultrasensitive detection of tetrabromobisphenol A bis(2-hydroxyethyl) ether. Analytica Chimica Acta, 2019, 1048, 50-57.	5.4	22
62	Fabricating photoelectrochemical aptasensor for sensitive detection of aflatoxin B1 with visible-light-driven BiOBr/nitrogen-doped graphene nanoribbons. Journal of Electroanalytical Chemistry, 2019, 840, 67-73.	3.8	21
63	Fabrication of multifunctional magnetic FePc@Fe3O4/reduced graphene oxide nanocomposites as biomimetic catalysts for organic peroxide sensing. Journal of Electroanalytical Chemistry, 2013, 693, 79-85.	3.8	20
64	A facile one-step route to synthesize the three-layer nanostructure of CuS/RGO/Ni₃S₂ and its high electrochemical performance. RSC Advances, 2016, 6, 16963-16971.	3.6	20
65	TiO2 nanoparticles embedded in borocarbonitrides nanosheets for sensitive and selective photoelectrochemical aptasensing of bisphenol A. Journal of Electroanalytical Chemistry, 2018, 818, 191-197.	3.8	20
66	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
67	Enhanced cathodic electrochemiluminescent microcystin-LR aptasensor based on surface plasmon resonance of Bi nanoparticles. Journal of Hazardous Materials, 2022, 434, 128877.	12.4	20
68	The immobilization of graphene quantum dots by one-step electrodeposition and its application in peroxydisulfate electrochemiluminescence. Journal of Electroanalytical Chemistry, 2016, 775, 1-7.	3.8	17
69	â€œSignal onâ€•electrochemiluminescence pentachlorophenol sensor based on luminol-MWCNTs@graphene oxide nanoribbons system. Talanta, 2015, 134, 448-452.	5.5	16
70	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
71	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
72	Enhanced electrochemiluminescence sensing platform using nitrogen-doped graphene as a novel two-dimensional mat of silver nanoparticles. Talanta, 2015, 132, 146-149.	5.5	15

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73	An effective strategy for fabricating highly dispersed nanoparticles on O-C3N4 with enhanced electrocatalytic activity and stability. Journal of Alloys and Compounds, 2018, 741, 1203-1211.	5.5	14
74	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
75	Selective and ultrasensitive detection of ciprofloxacin in milk using a photoelectrochemical aptasensor based on Ti3C2/Bi4VO8Br/TiO2 nanocomposite. Journal of Electroanalytical Chemistry, 2022, 914, 116285.	3.8	10
76	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
77	Modification of pyridinic N and O-rich defects in a bifunctional electrocatalyst with enhanced electrocatalytic performance. Journal of Alloys and Compounds, 2019, 789, 874-880.	5.5	8
78	A sensitive photoelectrochemical aptasensor for enrofloxacin detection based on plasmon-sensitized bismuth-rich bismuth oxyhalide. Talanta, 2022, 246, 123515.	5.5	8
79	Enhanced photoelectrochemical aptasensing for sensitive detection of diazinon pesticide used N-hydroxyphthalimide as an effective hole mediator. Sensors and Actuators B: Chemical, 2022, 367, 132101.	7.8	6
80	A one-step hydrothermal route to fabricate a ZnO nanorod/3D graphene aerogel-sensitized structure with enhanced photoelectrochemistry performance and self-powered photoelectrochemical biosensing of parathion-methyl. RSC Advances, 2021, 11, 35644-35652.	3.6	5
81	An immobilization-free and homogeneous electrochemiluminescence assay for detection of environmental pollutant graphene oxide in water. Journal of Electroanalytical Chemistry, 2021, 897, 115583.	3.8	4
82	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