

Yuting Yan

List of Publications by Year in descending order

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82
papers

4,128
citations

76294

40
h-index

118793

62
g-index

82
all docs

82
docs citations

82
times ranked

4818
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced non-enzymatic glucose sensing based on copper nanoparticles decorated nitrogen-doped graphene. <i>Biosensors and Bioelectronics</i> , 2014, 54, 273-278.	5.3	215
2	Visible light photoelectrochemical sensor for ultrasensitive determination of dopamine based on synergistic effect of graphene quantum dots and TiO ₂ nanoparticles. <i>Analytica Chimica Acta</i> , 2015, 853, 258-264.	2.6	148
3	Label-free impedimetric aptasensor for detection of femtomole level acetamiprid using gold nanoparticles decorated multiwalled carbon nanotube-reduced graphene oxide nanoribbon composites. <i>Biosensors and Bioelectronics</i> , 2015, 70, 122-129.	5.3	127
4	A facile label-free colorimetric aptasensor for acetamiprid based on the peroxidase-like activity of hemin-functionalized reduced graphene oxide. <i>Biosensors and Bioelectronics</i> , 2015, 65, 39-46.	5.3	123
5	Boosting the Visible-Light Photoactivity of BiOCl/BiVO ₄ /N-GQD Ternary Heterojunctions Based on Internal Z-Scheme Charge Transfer of N-GQDs: Simultaneous Band Gap Narrowing and Carrier Lifetime Prolonging. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38832-38841.	4.0	119
6	Graphene enhanced electrochemiluminescence of CdS nanocrystal for H ₂ O ₂ sensing. <i>Talanta</i> , 2010, 82, 372-376.	2.9	116
7	Amplified impedimetric aptasensor based on gold nanoparticles covalently bound graphene sheet for the picomolar detection of ochratoxin A. <i>Analytica Chimica Acta</i> , 2014, 806, 128-135.	2.6	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. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3093-3100.	4.0	110
9	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
10	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
11	Atmospheric pressure synthesis of nitrogen doped graphene quantum dots for fabrication of BiOBr nanohybrids with enhanced visible-light photoactivity and photostability. <i>Carbon</i> , 2016, 96, 1157-1165.	5.4	104
12	Magnetic-fluorescent-targeting multifunctional aptasensor for highly sensitive and one-step rapid detection of ochratoxin A. <i>Biosensors and Bioelectronics</i> , 2015, 68, 783-790.	5.3	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. <i>Carbon</i> , 2016, 102, 10-17.	5.4	90
14	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
15	Facile preparation of Fe ₃ O ₄ nanospheres/reduced graphene oxide nanocomposites with high peroxidase-like activity for sensitive and selective colorimetric detection of acetylcholine. <i>Sensors and Actuators B: Chemical</i> , 2014, 201, 160-166.	4.0	86
16	Label-free colorimetric aptasensor for sensitive detection of ochratoxin A utilizing hybridization chain reaction. <i>Analytica Chimica Acta</i> , 2015, 860, 83-88.	2.6	86
17	New Insights toward Efficient Charge-Separation Mechanism for High-Performance Photoelectrochemical Aptasensing: Enhanced Charge-Carrier Lifetime via Coupling Ultrathin MoS ₂ Nanoplates with Nitrogen-Doped Graphene Quantum Dots. <i>Analytical Chemistry</i> , 2017, 89, 4525-4531.	3.2	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. <i>Biosensors and Bioelectronics</i> , 2015, 65, 83-90.	5.3	79

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19	One-pot synthesis of BiPO ₄ functionalized reduced graphene oxide with enhanced photoelectrochemical performance for selective and sensitive detection of chlorpyrifos. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13671-13678.	5.2	78
20	Effective amperometric biosensor for carbaryl detection based on covalent immobilization acetylcholinesterase on multiwall carbon nanotubes/graphene oxide nanoribbons nanostructure. <i>Journal of Electroanalytical Chemistry</i> , 2015, 740, 8-13.	1.9	77
21	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
22	Design and construction of Z-scheme Bi ₂ S ₃ /nitrogen-doped graphene quantum dots: Boosted photoelectric conversion efficiency for high-performance photoelectrochemical aptasensing of sulfadimethoxine. <i>Biosensors and Bioelectronics</i> , 2019, 130, 230-235.	5.3	67
23	Ultrasensitive electrochemical aptasensor for ochratoxin A based on two-level cascaded signal amplification strategy. <i>Bioelectrochemistry</i> , 2014, 96, 7-13.	2.4	65
24	Enhanced wet hydrogen peroxide catalytic oxidation performances based on CuS nanocrystals/reduced graphene oxide composites. <i>Applied Surface Science</i> , 2014, 288, 633-640.	3.1	64
25	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
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	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
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. <i>Electrochimica Acta</i> , 2016, 215, 305-312.	2.6	55
29	Fabrication of graphene oxide decorated with nitrogen-doped graphene quantum dots and its enhanced electrochemiluminescence for ultrasensitive detection of pentachlorophenol. <i>Analyst</i> , 2015, 140, 1253-1259.	1.7	53
30	A highly sensitive signal-amplified gold nanoparticle-based electrochemical immunosensor for dibutyl phthalate detection. <i>Biosensors and Bioelectronics</i> , 2017, 91, 199-202.	5.3	52
31	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
32	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
33	Magnetically Separable Fe ₃ O ₄ Nanoparticles-Decorated Reduced Graphene Oxide Nanocomposite for Catalytic Wet Hydrogen Peroxide Oxidation. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013, 23, 907-916.	1.9	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. <i>Biosensors and Bioelectronics</i> , 2015, 73, 221-227.	5.3	49
35	Fluorescent "on-off-on" 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. <i>Biosensors and Bioelectronics</i> , 2017, 92, 26-32.	5.3	46
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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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. <i>Analytica Chimica Acta</i> , 2015, 888, 173-181.	2.6	44
38	Sensitive electrochemical sensing for polycyclic aromatic amines based on a novel core-shell multiwalled carbon nanotubes@ graphene oxide nanoribbons heterostructure. <i>Analytica Chimica Acta</i> , 2014, 845, 30-37.	2.6	43
39	Nitrogen functionized graphene quantum dots/3D bismuth oxyiodine hybrid hollow microspheres as remarkable photoelectrode for photoelectrochemical sensing of chlopyrifos. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 1034-1042.	4.0	43
40	CeO ₂ 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.	5.3	42
41	Hydrothermal growth of MnO ₂ /RGO/Ni(OH) ₂ on nickel foam with superior supercapacitor performance. <i>RSC Advances</i> , 2015, 5, 62571-62576.	1.7	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. <i>Journal of Electroanalytical Chemistry</i> , 2017, 787, 66-71.	1.9	39
43	A sensitive and stable visible-light-driven photoelectrochemical aptasensor for determination of oxytetracycline in tomato samples. <i>Journal of Hazardous Materials</i> , 2020, 398, 122944.	6.5	39
44	Polyoxometalate@magnetic graphene as versatile immobilization matrix of Ru(bpy) ₃ ²⁺ for sensitive magneto-controlled electrochemiluminescence sensor and its application in biosensing. <i>Biosensors and Bioelectronics</i> , 2014, 57, 149-156.	5.3	38
45	Selective and sensitive photoelectrochemical aptasensor for streptomycin detection based on Bi ₄ VO ₈ Br/Ti ₃ C ₂ nanohybrids. <i>Journal of Hazardous Materials</i> , 2021, 414, 125539.	6.5	34
46	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.	4.0	33
47	Core-shell LaFeO ₃ @g-C ₃ N ₄ p-n heterostructure with improved photoelectrochemical performance for fabricating streptomycin aptasensor. <i>Applied Surface Science</i> , 2020, 511, 145571.	3.1	33
48	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.	6.6	33
49	Enhanced peroxydisulfate electrochemiluminescence for dopamine biosensing based on Au nanoparticle decorated reduced graphene oxide. <i>Analyst</i> , 2013, 138, 7101.	1.7	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. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6092-6100.	2.7	30
51	Ternary heterojunctions composed of BiOCl, BiVO ₄ and nitrogen-doped carbon quantum dots for use in photoelectrochemical sensing: effective charge separation and application to ultrasensitive sensing of dopamine. <i>Mikrochimica Acta</i> , 2017, 184, 4827-4833.	2.5	30
52	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
53	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
54	Determination of pentachlorophenol by anodic electrochemiluminescence of Ru(bpy) ₃ ²⁺ based on nitrogen-doped graphene quantum dots as co-reactant. <i>RSC Advances</i> , 2017, 7, 50634-50642.	1.7	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. <i>Biosensors and Bioelectronics</i> , 2018, 105, 77-80.	5.3	26
56	A Green, Simple, and Rapid Detection for Amaranth in Candy Samples Based on the Fluorescence Quenching of Nitrogen-Doped Graphene Quantum Dots. <i>Food Analytical Methods</i> , 2019, 12, 1658-1665.	1.3	25
57	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
58	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
59	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
60	Enhanced amperometric sensing for direct detection of nitenpyram via synergistic effect of copper nanoparticles and nitrogen-doped graphene. <i>Journal of Electroanalytical Chemistry</i> , 2014, 734, 25-30.	1.9	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. <i>Analytica Chimica Acta</i> , 2019, 1048, 50-57.	2.6	22
62	Fabricating photoelectrochemical aptasensor for sensitive detection of aflatoxin B1 with visible-light-driven BiOBr/nitrogen-doped graphene nanoribbons. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 67-73.	1.9	21
63	Fabrication of multifunctional magnetic FePc@Fe ₃ O ₄ /reduced graphene oxide nanocomposites as biomimetic catalysts for organic peroxide sensing. <i>Journal of Electroanalytical Chemistry</i> , 2013, 693, 79-85.	1.9	20
64	A facile one-step route to synthesize the three-layer nanostructure of CuS/RGO/Ni ₃ S ₂ and its high electrochemical performance. <i>RSC Advances</i> , 2016, 6, 16963-16971.	1.7	20
65	TiO ₂ nanoparticles embedded in borocarbonitrides nanosheets for sensitive and selective photoelectrochemical aptasensing of bisphenol A. <i>Journal of Electroanalytical Chemistry</i> , 2018, 818, 191-197.	1.9	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. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128636.	4.0	20
67	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
68	The immobilization of graphene quantum dots by one-step electrodeposition and its application in peroxydisulfate electrochemiluminescence. <i>Journal of Electroanalytical Chemistry</i> , 2016, 775, 1-7.	1.9	17
69	Signal on-off electrochemiluminescence pentachlorophenol sensor based on luminol-MWCNTs@graphene oxide nanoribbons system. <i>Talanta</i> , 2015, 134, 448-452.	2.9	16
70	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
71	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
72	Enhanced electrochemiluminescence sensing platform using nitrogen-doped graphene as a novel two-dimensional mat of silver nanoparticles. <i>Talanta</i> , 2015, 132, 146-149.	2.9	15

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73	An effective strategy for fabricating highly dispersed nanoparticles on O-C3N4 with enhanced electrocatalytic activity and stability. <i>Journal of Alloys and Compounds</i> , 2018, 741, 1203-1211.	2.8	14
74	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
75	Selective and ultrasensitive detection of ciprofloxacin in milk using a photoelectrochemical aptasensor based on Ti3C2/Bi4VO8Br/TiO2 nanocomposite. <i>Journal of Electroanalytical Chemistry</i> , 2022, 914, 116285.	1.9	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. <i>Journal of Alloys and Compounds</i> , 2017, 729, 27-37.	2.8	9
77	Modification of pyridinic N and O-rich defects in a bifunctional electrocatalyst with enhanced electrocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2019, 789, 874-880.	2.8	8
78	A sensitive photoelectrochemical aptasensor for enrofloxacin detection based on plasmon-sensitized bismuth-rich bismuth oxyhalide. <i>Talanta</i> , 2022, 246, 123515.	2.9	8
79	Enhanced photoelectrochemical aptasensing for sensitive detection of diazinon pesticide used N-hydroxyphthalimide as an effective hole mediator. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132101.	4.0	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. <i>RSC Advances</i> , 2021, 11, 35644-35652.	1.7	5
81	An immobilization-free and homogeneous electrochemiluminescence assay for detection of environmental pollutant graphene oxide in water. <i>Journal of Electroanalytical Chemistry</i> , 2021, 897, 115583.	1.9	4
82	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