

Ya-Qin Chai

List of Publications by Year in descending order

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378
papers

16,891
citations

13865
67
h-index

37204
96
g-index

379
all docs

379
docs citations

379
times ranked

10253
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical sensing of hydrogen peroxide using metal nanoparticles: a review. <i>Mikrochimica Acta</i> , 2013, 180, 15-32.	5.0	453
2	In Situ Hybridization Chain Reaction Amplification for Universal and Highly Sensitive Electrochemiluminescent Detection of DNA. <i>Analytical Chemistry</i> , 2012, 84, 7750-7755.	6.5	272
3	Highly Ordered and Field-Free 3D DNA Nanostructure: The Next Generation of DNA Nanomachine for Rapid Single-Step Sensing. <i>Journal of the American Chemical Society</i> , 2018, 140, 9361-9364.	13.7	192
4	An "Off-On" Electrochemiluminescent Biosensor Based on DNAzyme-Assisted Target Recycling and Rolling Circle Amplifications for Ultrasensitive Detection of microRNA. <i>Analytical Chemistry</i> , 2015, 87, 3202-3207.	6.5	182
5	In Situ Electrochemical Generation of Electrochemiluminescent Silver Nanoclusters on Target-Cycling Synchronized Rolling Circle Amplification Platform for MicroRNA Detection. <i>Analytical Chemistry</i> , 2016, 88, 3203-3210.	6.5	174
6	A multifunctional hemin-metal-organic framework and its application to construct an electrochemical aptasensor for thrombin detection. <i>Nanoscale</i> , 2015, 7, 18232-18238.	5.6	165
7	Cu-Based Metal-Organic Frameworks as a Catalyst To Construct a Ratiometric Electrochemical Aptasensor for Sensitive Lipopolysaccharide Detection. <i>Analytical Chemistry</i> , 2015, 87, 11345-11352.	6.5	163
8	Signal-off Electrochemiluminescence Biosensor Based on Phi29 DNA Polymerase Mediated Strand Displacement Amplification for MicroRNA Detection. <i>Analytical Chemistry</i> , 2015, 87, 6328-6334.	6.5	152
9	Strong Electrochemiluminescence from MOF Accelerator Enriched Quantum Dots for Enhanced Sensing of Trace cTnI. <i>Analytical Chemistry</i> , 2018, 90, 3995-4002.	6.5	150
10	Near-infrared aggregation-induced enhanced electrochemiluminescence from tetraphenylethylene nanocrystals: a new generation of ECL emitters. <i>Chemical Science</i> , 2019, 10, 4497-4501.	7.4	148
11	Electrochemiluminescence Resonance Energy Transfer System: Mechanism and Application in Ratiometric Aptasensor for Lead Ion. <i>Analytical Chemistry</i> , 2015, 87, 7787-7794.	6.5	147
12	Ceria Doped Zinc Oxide Nanoflowers Enhanced Luminol-Based Electrochemiluminescence Immunosensor for Amyloid- β^2 Detection. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12968-12975.	8.0	143
13	In Situ DNA-Templated Synthesis of Silver Nanoclusters for Ultrasensitive and Label-Free Electrochemical Detection of MicroRNA. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1188-1193.	8.0	142
14	New Signal Amplification Strategy Using Semicarbazide as Co-reaction Accelerator for Highly Sensitive Electrochemiluminescent Aptasensor Construction. <i>Analytical Chemistry</i> , 2015, 87, 11389-11397.	6.5	135
15	Multiplexed and Amplified Electronic Sensor for the Detection of MicroRNAs from Cancer Cells. <i>Analytical Chemistry</i> , 2014, 86, 11913-11918.	6.5	123
16	"Off-to-On" Surface-Enhanced Raman Spectroscopy Platform with Padlock Probe-Based Exponential Rolling Circle Amplification for Ultrasensitive Detection of MicroRNA 155. <i>Analytical Chemistry</i> , 2017, 89, 2866-2872.	6.5	123
17	Ultrasensitive Apurinic/Apyrimidinic Endonuclease 1 Immunosensing Based on Self-Enhanced Electrochemiluminescence of a Ru(II) Complex. <i>Analytical Chemistry</i> , 2014, 86, 1053-1060.	6.5	121
18	Electrochemiluminescent Graphene Quantum Dots as a Sensing Platform: A Dual Amplification for MicroRNA Assay. <i>Analytical Chemistry</i> , 2015, 87, 10385-10391.	6.5	121

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19	Ultrasensitive simultaneous detection of four biomarkers based on hybridization chain reaction and biotin-streptavidin signal amplification strategy. <i>Biosensors and Bioelectronics</i> , 2015, 68, 42-48.	10.1	119
20	Ultrasensitive Electrochemiluminescence Biosensor for MicroRNA Detection by 3D DNA Walking Machine Based Target Conversion and Distance-Controllable Signal Quenching and Enhancing. <i>Analytical Chemistry</i> , 2017, 89, 8282-8287.	6.5	119
21	DNA-Fueled Molecular Machine Enables Enzyme-Free Target Recycling Amplification for Electronic Detection of MicroRNA from Cancer Cells with Highly Minimized Background Noise. <i>Analytical Chemistry</i> , 2015, 87, 8578-8583.	6.5	117
22	Bi-directional DNA Walking Machine and Its Application in an Enzyme-Free Electrochemiluminescence Biosensor for Sensitive Detection of MicroRNAs. <i>Analytical Chemistry</i> , 2017, 89, 5036-5042.	6.5	117
23	Porous carbon-coated CuCo_2O_4 concave polyhedrons derived from metal-organic frameworks as anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12038-12043.	10.3	115
24	Electrochemiluminescence Biosensor Based on 3-D DNA Nanomachine Signal Probe Powered by Protein-Aptamer Binding Complex for Ultrasensitive Mucin 1 Detection. <i>Analytical Chemistry</i> , 2017, 89, 4280-4286.	6.5	110
25	Metal Organic Frameworks Combining CoFe_2O_4 Magnetic Nanoparticles as Highly Efficient SERS Sensing Platform for Ultrasensitive Detection of N-Terminal Pro-Brain Natriuretic Peptide. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7683-7690.	8.0	109
26	Switchable Target-Responsive 3D DNA Hydrogels As a Signal Amplification Strategy Combining with SERS Technique for Ultrasensitive Detection of miRNA 155. <i>Analytical Chemistry</i> , 2017, 89, 8538-8544.	6.5	107
27	Sensitive electrochemiluminescence detection for CA15-3 based on immobilizing luminol on dendrimer functionalized ZnO nanorods. <i>Biosensors and Bioelectronics</i> , 2015, 63, 33-38.	10.1	106
28	Functional Three-Dimensional Porous Conductive Polymer Hydrogels for Sensitive Electrochemiluminescence in Situ Detection of H_2O_2 Released from Live Cells. <i>Analytical Chemistry</i> , 2018, 90, 8462-8469.	6.5	106
29	Ultrasensitive Photoelectrochemical Biosensor Based on DNA Tetrahedron as Nanocarrier for Efficient Immobilization of CdTe QDs-Methylene Blue as Signal Probe with Near-Zero Background Noise. <i>Analytical Chemistry</i> , 2018, 90, 8211-8216.	6.5	104
30	Ultrasensitive Lipopolysaccharides Detection Based on Doxorubicin Conjugated N^6 -(Aminobutyl)- N^1 -(ethylisoluminol) as Electrochemiluminescence Indicator and Self-Assembled Tetrahedron DNA Dendrimers as Nanocarriers. <i>Analytical Chemistry</i> , 2016, 88, 5218-5224.	6.5	99
31	Morphology-Controlled 9,10-Diphenylanthracene Nanoblocks as Electrochemiluminescence Emitters for MicroRNA Detection with One-Step DNA Walker Amplification. <i>Analytical Chemistry</i> , 2018, 90, 5298-5305.	6.5	98
32	Highly sensitive impedimetric immunosensor based on single-walled carbon nanohorns as labels and bienzyme biocatalyzed precipitation as enhancer for cancer biomarker detection. <i>Biosensors and Bioelectronics</i> , 2014, 55, 360-365.	10.1	97
33	Highly Efficient Electrochemiluminescent Silver Nanoclusters/Titanium Oxide Nanomaterials as a Signal Probe for Ferrocene-Driven Light Switch Bioanalysis. <i>Analytical Chemistry</i> , 2017, 89, 3732-3738.	6.5	97
34	Electrochemical Peptide Biosensor Based on in Situ Silver Deposition for Detection of Prostate Specific Antigen. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13360-13366.	8.0	96
35	Self-Enhanced Electrochemiluminescence Nanorods of Tris(bipyridine) Ruthenium(II) Derivative and Its Sensing Application for Detection of N^6 -Acetyl- I^2 -glucosaminidase. <i>Analytical Chemistry</i> , 2016, 88, 2258-2265.	6.5	95
36	Ultrasensitive Assay for Telomerase Activity via Self-Enhanced Electrochemiluminescent Ruthenium Complex Doped Metal-Organic Frameworks with High Emission Efficiency. <i>Analytical Chemistry</i> , 2017, 89, 3222-3227.	6.5	95

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37	Development of an electrochemical method for Ochratoxin A detection based on aptamer and loop-mediated isothermal amplification. <i>Biosensors and Bioelectronics</i> , 2014, 55, 324-329.	10.1	94
38	Cu Nanoclusters: Novel Electrochemiluminescence Emitters for Bioanalysis. <i>Analytical Chemistry</i> , 2016, 88, 11527-11532.	6.5	94
39	MoS ₂ Quantum Dots as New Electrochemiluminescence Emitters for Ultrasensitive Bioanalysis of Lipopolysaccharide. <i>Analytical Chemistry</i> , 2017, 89, 8335-8342.	6.5	94
40	Signal-Switchable Electrochemiluminescence System Coupled with Target Recycling Amplification Strategy for Sensitive Mercury Ion and Mucin 1 Assay. <i>Analytical Chemistry</i> , 2016, 88, 9243-9250.	6.5	93
41	SnS ₂ Quantum Dots as New Emitters with Strong Electrochemiluminescence for Ultrasensitive Antibody Detection. <i>Analytical Chemistry</i> , 2018, 90, 12270-12277.	6.5	93
42	A target responsive aptamer machine for label-free and sensitive non-enzymatic recycling amplification detection of ATP. <i>Chemical Communications</i> , 2016, 52, 3673-3676.	4.1	92
43	A signal-on electrochemical aptasensor for ultrasensitive detection of endotoxin using three-way DNA junction-aided enzymatic recycling and graphene nanohybrid for amplification. <i>Nanoscale</i> , 2014, 6, 2902.	5.6	91
44	Silver Ions as Novel Coreaction Accelerator for Remarkably Enhanced Electrochemiluminescence in a PTCA@S ₂ O ₈ ²⁻ System and Its Application in an Ultrasensitive Assay for Mercury Ions. <i>Analytical Chemistry</i> , 2018, 90, 6851-6858.	6.5	91
45	Versatile and Ultrasensitive Electrochemiluminescence Biosensor for Biomarker Detection Based on Nonenzymatic Amplification and Aptamer-Triggered Emitter Release. <i>Analytical Chemistry</i> , 2019, 91, 3452-3458.	6.5	91
46	Electrochemiluminescence of luminol enhanced by the synergetic catalysis of hemin and silver nanoparticles for sensitive protein detection. <i>Biosensors and Bioelectronics</i> , 2014, 54, 20-26.	10.1	90
47	Ultrasensitive electrochemical immunosensor for carbohydrate antigen 19-9 using Au/porous graphene nanocomposites as platform and Au@Pd core/shell bimetallic functionalized graphene nanocomposites as signal enhancers. <i>Biosensors and Bioelectronics</i> , 2015, 66, 356-362.	10.1	90
48	Ternary Electrochemiluminescence System Based on Rubrene Microrods as Luminophore and Pt Nanomaterials as Coreaction Accelerator for Ultrasensitive Detection of MicroRNA from Cancer Cells. <i>Analytical Chemistry</i> , 2017, 89, 9108-9115.	6.5	90
49	Anodic Electrochemiluminescence of Carbon Dots Promoted by Nitrogen Doping and Application to Rapid Cancer Cell Detection. <i>Analytical Chemistry</i> , 2020, 92, 1379-1385.	6.5	88
50	One DNA circle capture probe with multiple target recognition domains for simultaneous electrochemical detection of miRNA-21 and miRNA-155. <i>Biosensors and Bioelectronics</i> , 2020, 149, 111848.	10.1	86
51	Electrochemiluminescence Peptide-Based Biosensor with Hetero-Nanostructures as Coreaction Accelerator for the Ultrasensitive Determination of Tryptase. <i>Analytical Chemistry</i> , 2018, 90, 2263-2270.	6.5	85
52	Novel 2D-DNA-Nanoprobe-Mediated Enzyme-Free-Target-Recycling Amplification for the Ultrasensitive Electrochemical Detection of MicroRNA. <i>Analytical Chemistry</i> , 2018, 90, 9538-9544.	6.5	83
53	Highly Efficient Electrochemiluminescence Resonance Energy Transfer System in One Nanostructure: Its Application for Ultrasensitive Detection of MicroRNA in Cancer Cells. <i>Analytical Chemistry</i> , 2017, 89, 6029-6035.	6.5	81
54	Cu/Mn Double-Doped CeO ₂ Nanocomposites as Signal Tags and Signal Amplifiers for Sensitive Electrochemical Detection of Procalcitonin. <i>Analytical Chemistry</i> , 2017, 89, 13349-13356.	6.5	81

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55	Ternary Electrochemiluminescence Nanostructure of Au Nanoclusters as a Highly Efficient Signal Label for Ultrasensitive Detection of Cancer Biomarkers. <i>Analytical Chemistry</i> , 2018, 90, 10024-10030.	6.5	81
56	Universal Ratiometric Photoelectrochemical Bioassay with Target-Nucleotide Transduction-Amplification and Electron-Transfer Tunneling Distance Regulation Strategies for Ultrasensitive Determination of microRNA in Cells. <i>Analytical Chemistry</i> , 2017, 89, 9445-9451.	6.5	79
57	An amplified electrochemical immunosensor based on in situ-produced 1-naphthol as electroactive substance and graphene oxide and Pt nanoparticles functionalized CeO ₂ nanocomposites as signal enhancer. <i>Biosensors and Bioelectronics</i> , 2015, 69, 321-327.	10.1	78
58	DNA nanomachine-based regenerated sensing platform: a novel electrochemiluminescence resonance energy transfer strategy for ultra-high sensitive detection of microRNA from cancer cells. <i>Nanoscale</i> , 2017, 9, 2310-2316.	5.6	77
59	In Situ Formation of Multifunctional DNA Nanospheres for a Sensitive and Accurate Dual-Mode Biosensor for Photoelectrochemical and Electrochemical Assay. <i>Analytical Chemistry</i> , 2020, 92, 8364-8370.	6.5	77
60	In situ electro-polymerization of nitrogen doped carbon dots and their application in an electrochemiluminescence biosensor for the detection of intracellular lead ions. <i>Chemical Communications</i> , 2016, 52, 5589-5592.	4.1	76
61	Using p-type PbS Quantum Dots to Quench Photocurrent of Fullerene@Au NP@MoS ₂ Composite Structure for Ultrasensitive Photoelectrochemical Detection of ATP. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42111-42120.	8.0	75
62	Electrochemiluminescence Enhanced by Restriction of Intramolecular Motions (RIM): Tetraphenylethylene Microcrystals as a Novel Emitter for Mucin 1 Detection. <i>Analytical Chemistry</i> , 2019, 91, 3710-3716.	6.5	75
63	In Situ Electrodeposited Synthesis of Electrochemiluminescent Ag Nanoclusters as Signal Probe for Ultrasensitive Detection of Cyclin-D1 from Cancer Cells. <i>Analytical Chemistry</i> , 2017, 89, 6787-6793.	6.5	74
64	A highly sensitive VEGF165 photoelectrochemical biosensor fabricated by assembly of aptamer bridged DNA networks. <i>Biosensors and Bioelectronics</i> , 2018, 101, 213-218.	10.1	74
65	A Sensitive Electrochemical Aptasensor for Thrombin Detection Based on Electroactive Co-Based Metal-Organic Frameworks with Target-Triggering NESA Strategy. <i>Analytical Chemistry</i> , 2017, 89, 11636-11640.	6.5	72
66	Dynamical Regulation of Enzyme Cascade Amplification by a Regenerated DNA Nanotweezer for Ultrasensitive Electrochemical DNA Detection. <i>Analytical Chemistry</i> , 2018, 90, 10701-10706.	6.5	72
67	Coupling hybridization chain reaction with catalytic hairpin assembly enables non-enzymatic and sensitive fluorescent detection of microRNA cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2016, 77, 416-420.	10.1	70
68	Dual microRNAs-Fueled DNA Nanogears: A Case of Regenerated Strategy for Multiple Electrochemiluminescence Detection of microRNAs with Single Luminophore. <i>Analytical Chemistry</i> , 2017, 89, 1338-1345.	6.5	70
69	Luminescence-Functionalized Metal-Organic Frameworks Based on a Ruthenium(II) Complex: A Signal Amplification Strategy for Electrogenenerated Chemiluminescence Immunosensors. <i>Chemistry - A European Journal</i> , 2015, 21, 9825-9832.	3.3	69
70	Hollow Porous Polymeric Nanospheres of a Self-Enhanced Ruthenium Complex with Improved Electrochemiluminescent Efficiency for Ultrasensitive Aptasensor Construction. <i>Analytical Chemistry</i> , 2017, 89, 9232-9238.	6.5	69
71	Novel Ru(bpy) ₂ (cpaphen) ²⁺ /TPrA/TiO ₂ Ternary ECL System: An Efficient Platform for the Detection of Glutathione with Mn ²⁺ as Substitute Target. <i>Analytical Chemistry</i> , 2019, 91, 3681-3686.	6.5	69
72	An ultrasensitive electrochemiluminescence biosensor for detection of MicroRNA by in-situ electrochemically generated copper nanoclusters as luminophore and TiO ₂ as coreaction accelerator. <i>Biosensors and Bioelectronics</i> , 2018, 114, 10-14.	10.1	68

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73	A Janus 3D DNA nanomachine for simultaneous and sensitive fluorescence detection and imaging of dual microRNAs in cancer cells. <i>Chemical Science</i> , 2020, 11, 8482-8488.	7.4	68
74	Ce-based metal-organic frameworks and DNAzyme-assisted recycling as dual signal amplifiers for sensitive electrochemical detection of lipopolysaccharide. <i>Biosensors and Bioelectronics</i> , 2016, 83, 287-292.	10.1	67
75	An ultrasensitive electrochemiluminescence biosensor for MicroRNA detection based on luminol-functionalized Au NPs@ZnO nanomaterials as signal probe and dissolved O ₂ as coreactant. <i>Biosensors and Bioelectronics</i> , 2019, 135, 8-13.	10.1	66
76	In Situ Controllable Generation of Copper Nanoclusters Confined in a Poly-(L)-Cysteine Porous Film with Enhanced Electrochemiluminescence for Alkaline Phosphatase Detection. <i>Analytical Chemistry</i> , 2020, 92, 13581-13587.	6.5	66
77	Au nanoparticles decorated C60 nanoparticle-based label-free electrochemiluminescence aptasensor via a novel "on-off-on" switch system. <i>Biomaterials</i> , 2015, 52, 476-483.	11.4	65
78	Highly sensitive electrochemiluminescence assay of acetylcholinesterase activity based on dual biomarkers using Pd-Au nanowires as immobilization platform. <i>Biosensors and Bioelectronics</i> , 2016, 79, 34-40.	10.1	65
79	PtNPs as Scaffolds to Regulate Interenzyme Distance for Construction of Efficient Enzyme Cascade Amplification for Ultrasensitive Electrochemical Detection of MMP-2. <i>Analytical Chemistry</i> , 2017, 89, 9383-9387.	6.5	65
80	Programmable Modulation of Copper Nanoclusters Electrochemiluminescence via DNA Nanocranes for Ultrasensitive Detection of microRNA. <i>Analytical Chemistry</i> , 2018, 90, 3543-3549.	6.5	65
81	Amperometric Hydrogen Peroxide Biosensor Based on the Immobilization of Horseradish Peroxidase (HRP) on the Layer-by-Layer Assembly Films of Gold Colloidal Nanoparticles and Toluidine Blue. <i>Electroanalysis</i> , 2006, 18, 471-477.	2.9	63
82	A Novel Nonenzymatic Hydrogen Peroxide Sensor Based on a Polypyrrole Nanowire-Copper Nanocomposite Modified Gold Electrode. <i>Sensors</i> , 2008, 8, 5141-5152.	3.8	63
83	Perylene Derivative/Luminol Nanocomposite as a Strong Electrochemiluminescence Emitter for Construction of an Ultrasensitive MicroRNA Biosensor. <i>Analytical Chemistry</i> , 2019, 91, 1516-1523.	6.5	63
84	Ultrasensitive Cytosensor Based on Self-Enhanced Electrochemiluminescent Ruthenium-Silica Composite Nanoparticles for Efficient Drug Screening with Cell Apoptosis Monitoring. <i>Analytical Chemistry</i> , 2015, 87, 12363-12371.	6.5	62
85	A sensitive electrochemical aptasensor based on palladium nanoparticles decorated graphene-molybdenum disulfide flower-like nanocomposites and enzymatic signal amplification. <i>Analytica Chimica Acta</i> , 2015, 853, 234-241.	5.4	62
86	Self-Enhanced Ultrasensitive Photoelectrochemical Biosensor Based on Nanocapsule Packaging Both Donor-Acceptor-Type Photoactive Material and Its Sensitizer. <i>Analytical Chemistry</i> , 2016, 88, 8698-8705.	6.5	61
87	An ultrasensitive "off-on" photoelectrochemical aptasensor based on signal amplification of a fullerene/CdTe quantum dots sensitized structure and efficient quenching by manganese porphyrin. <i>Chemical Communications</i> , 2016, 52, 8138-8141.	4.1	61
88	A highly sensitive electrochemiluminescence biosensor for the detection of organophosphate pesticides based on cyclodextrin functionalized graphitic carbon nitride and enzyme inhibition. <i>Chemical Communications</i> , 2016, 52, 5049-5052.	4.1	61
89	Enzyme-free Target Recycling and Double-Output Amplification System for Electrochemiluminescent Assay of Mucin 1 with MoS ₂ Nanoflowers as Co-reaction Accelerator. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14483-14490.	8.0	61
90	An enzyme-free electrochemical biosensor combining target recycling with Fe ₃ O ₄ /CeO ₂ @Au nanocatalysts for microRNA-21 detection. <i>Biosensors and Bioelectronics</i> , 2018, 119, 170-175.	10.1	61

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91	Tracing Phosphate Ions Generated during Loop-Mediated Isothermal Amplification for Electrochemical Detection of <i>Nosema bombycis</i> Genomic DNA PTP1. <i>Analytical Chemistry</i> , 2015, 87, 10268-10274.	6.5	60
92	Hemin as electrochemically regenerable co-reaction accelerator for construction of an ultrasensitive PTCA-based electrochemiluminescent aptasensor. <i>Biosensors and Bioelectronics</i> , 2018, 100, 490-496.	10.1	60
93	Ultrasensitive Electrochemiluminescence Biosensor for Speedy Detection of microRNA Based on a DNA Rolling Machine and Target Recycling. <i>Analytical Chemistry</i> , 2019, 91, 4883-4888.	6.5	60
94	Highly Sensitive Photoelectrochemical Biosensor Based on Quantum Dots Sensitizing Bi ₂ Te ₃ Nanosheets and DNA-Amplifying Strategies. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22624-22629.	8.0	60
95	Dual amplified and ultrasensitive electrochemical detection of mutant DNA Biomarkers based on nuclease-assisted target recycling and rolling circle amplifications. <i>Biosensors and Bioelectronics</i> , 2014, 55, 266-271.	10.1	59
96	Toehold strand displacement-driven assembly of G-quadruplex DNA for enzyme-free and non-label sensitive fluorescent detection of thrombin. <i>Biosensors and Bioelectronics</i> , 2015, 64, 306-310.	10.1	59
97	High-Efficiency CNNS@NH ₂ -MIL(Fe) Electrochemiluminescence Emitters Coupled with Ti ₃ C ₂ Nanosheets as a Matrix for a Highly Sensitive Cardiac Troponin I Assay. <i>Analytical Chemistry</i> , 2020, 92, 8992-9000.	6.5	59
98	Simultaneous determination of dopamine, ascorbic acid and uric acid using a multi-walled carbon nanotube and reduced graphene oxide hybrid functionalized by PAMAM and Au nanoparticles. <i>Analytical Methods</i> , 2015, 7, 1471-1477.	2.7	58
99	Ultrasensitive Electrochemiluminescence Biosensing Platform for Detection of Multiple Types of Biomarkers toward Identical Cancer on a Single Interface. <i>Analytical Chemistry</i> , 2017, 89, 12821-12827.	6.5	56
100	Ti ₃ C ₂ /BiVO ₄ Schottky junction as a signal indicator for ultrasensitive photoelectrochemical detection of VEGF ₁₆₅ . <i>Chemical Communications</i> , 2019, 55, 13729-13732.	4.1	56
101	A photoelectrochemical biosensor based on fullerene with methylene blue as a sensitizer for ultrasensitive DNA detection. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111579.	10.1	55
102	Simply Constructed and Highly Efficient Classified Cargo-Discharge DNA Robot: A DNA Walking Nanomachine Platform for Ultrasensitive Multiplexed Sensing. <i>Analytical Chemistry</i> , 2019, 91, 8123-8128.	6.5	55
103	Covalent organic frameworks as micro-reactors: confinement-enhanced electrochemiluminescence. <i>Chemical Science</i> , 2020, 11, 5410-5414.	7.4	55
104	Non-enzymatic hydrogen peroxide amperometric sensor based on a glassy carbon electrode modified with an MWCNT/polyaniline composite film and platinum nanoparticles. <i>Mikrochimica Acta</i> , 2012, 176, 389-395.	5.0	54
105	Ultrasensitive electrochemiluminescent aptasensor for ochratoxin A detection with the loop-mediated isothermal amplification. <i>Analytica Chimica Acta</i> , 2014, 811, 70-75.	5.4	54
106	A microRNA-activated molecular machine for non-enzymatic target recycling amplification detection of microRNA from cancer cells. <i>Chemical Communications</i> , 2015, 51, 11084-11087.	4.1	54
107	Target-catalyzed hairpin assembly and intramolecular/intermolecular co-reaction for signal amplified electrochemiluminescent detection of microRNA. <i>Biosensors and Bioelectronics</i> , 2016, 77, 442-450.	10.1	54
108	Precise Regulation of Enzyme Cascade Catalytic Efficiency with DNA Tetrahedron as Scaffold for Ultrasensitive Electrochemical Detection of DNA. <i>Analytical Chemistry</i> , 2019, 91, 3561-3566.	6.5	54

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109	Self-Assembly of Gold Nanoclusters into a Metal-Organic Framework with Efficient Electrochemiluminescence and Their Application for Sensitive Detection of Rutin. <i>Analytical Chemistry</i> , 2021, 93, 3445-3451.	6.5	54
110	In situ formation of flower-like CuCo_2S_4 nanosheets/graphene composites with enhanced lithium storage properties. <i>RSC Advances</i> , 2016, 6, 38321-38327.	3.6	53
111	A sensitive electrochemiluminescence immunosensor based on luminophore capped Pd@Au core-shell nanoparticles as signal tracers and ferrocenyl compounds as signal enhancers. <i>Biosensors and Bioelectronics</i> , 2016, 81, 334-340.	10.1	53
112	A Highly Sensitive Photoelectrochemical Assay with Donor-Acceptor-Type Material as Photoactive Material and Polyaniline as Signal Enhancer. <i>Analytical Chemistry</i> , 2018, 90, 6096-6101.	6.5	53
113	Three-Dimensional Cadmium Telluride Quantum Dots-DNA Nanoreticulation as a Highly Efficient Electrochemiluminescent Emitter for Ultrasensitive Detection of MicroRNA from Cancer Cells. <i>Analytical Chemistry</i> , 2019, 91, 7765-7773.	6.5	53
114	Sensitive Electrochemiluminescence Immunosensor for Detection of $\text{N-Acetyl-}\beta\text{-D-glucosaminidase}$ Based on a Light-Switch-Molecule Combined with DNA Dendrimer. <i>Analytical Chemistry</i> , 2016, 88, 5797-5803.	6.5	52
115	A sensitive electrochemiluminescent aptasensor based on perylene derivatives as a novel co-reaction accelerator for signal amplification. <i>Biosensors and Bioelectronics</i> , 2016, 85, 8-15.	10.1	52
116	An ultrasensitive electrochemiluminescence immunosensor for NT-proBNP based on self-catalyzed luminescence emitter coupled with PdCu@carbon nanohorn hybrid. <i>Biosensors and Bioelectronics</i> , 2017, 87, 779-785.	10.1	52
117	Gold nanoparticle-graphene nanohybrid bridged 3-amino-5-mercapto-1,2,4-triazole-functionalized multiwall carbon nanotubes for the simultaneous determination of hydroquinone, catechol, resorcinol and nitrite. <i>Analytical Methods</i> , 2013, 5, 666-672.	2.7	51
118	Quadratic recycling amplification for label-free and sensitive visual detection of HIV DNA. <i>Biosensors and Bioelectronics</i> , 2014, 55, 220-224.	10.1	51
119	Target-Induced 3D DNA Network Structure as a Novel Signal Amplifier for Ultrasensitive Electrochemiluminescence Detection of MicroRNAs. <i>Analytical Chemistry</i> , 2019, 91, 14368-14374.	6.5	51
120	An Affinity-Enhanced DNA Intercalator with Intense ECL Embedded in DNA Hydrogel for Biosensing Applications. <i>Analytical Chemistry</i> , 2020, 92, 11044-11052.	6.5	51
121	Wavelength-resolved simultaneous photoelectrochemical bifunctional sensor on single interface: A newly in vitro approach for multiplexed DNA monitoring in cancer cells. <i>Biosensors and Bioelectronics</i> , 2016, 81, 423-430.	10.1	50
122	Ultrasensitive Photoelectrochemical Assay for DNA Detection Based on a Novel $\text{SnS}_2/\text{Co}_3\text{O}_4$ Sensitized Structure. <i>Analytical Chemistry</i> , 2020, 92, 14769-14774.	6.5	50
123	Electrochemiluminescence recovery-based aptasensor for sensitive Ochratoxin A detection via exonuclease-catalyzed target recycling amplification. <i>Talanta</i> , 2014, 125, 45-50.	5.5	49
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