List of Publications by Year in descending order

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Ρυο Υυλη

#	Article	IF	CITATIONS
1	Electrochemical sensing of hydrogen peroxide using metal nanoparticles: a review. Mikrochimica Acta, 2013, 180, 15-32.	5.0	453
2	In Situ Hybridization Chain Reaction Amplification for Universal and Highly Sensitive Electrochemiluminescent Detection of DNA. Analytical Chemistry, 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. Journal of the American Chemical Society, 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. Analytical Chemistry, 2015, 87, 3202-3207.	6.5	182
5	<i>In Situ</i> Electrochemical Generation of Electrochemiluminescent Silver Naonoclusters on Target-Cycling Synchronized Rolling Circle Amplification Platform for MicroRNA Detection. Analytical Chemistry, 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. Nanoscale, 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. Analytical Chemistry, 2015, 87, 11345-11352.	6.5	163
8	Signal-off Electrochemiluminescence Biosensor Based on Phi29 DNA Polymerase Mediated Strand Displacement Amplification for MicroRNA Detection. Analytical Chemistry, 2015, 87, 6328-6334.	6.5	152
9	Strong Electrochemiluminescence from MOF Accelerator Enriched Quantum Dots for Enhanced Sensing of Trace cTnl. Analytical Chemistry, 2018, 90, 3995-4002.	6.5	150
10	Near-infrared aggregation-induced enhanced electrochemiluminescence from tetraphenylethylene nanocrystals: a new generation of ECL emitters. Chemical Science, 2019, 10, 4497-4501.	7.4	148
11	Simultaneous electrochemical detection of multiple analytes based on dual signal amplification of single-walled carbon nanotubes and multi-labeled graphene sheets. Biomaterials, 2012, 33, 1090-1096.	11.4	147
12	Electrochemiluminescence Resonance Energy Transfer System: Mechanism and Application in Ratiometric Aptasensor for Lead Ion. Analytical Chemistry, 2015, 87, 7787-7794.	6.5	147
13	Ceria Doped Zinc Oxide Nanoflowers Enhanced Luminol-Based Electrochemiluminescence Immunosensor for Amyloid-β Detection. ACS Applied Materials & Interfaces, 2016, 8, 12968-12975.	8.0	143
14	In Situ DNA-Templated Synthesis of Silver Nanoclusters for Ultrasensitive and Label-Free Electrochemical Detection of MicroRNA. ACS Applied Materials & Interfaces, 2015, 7, 1188-1193.	8.0	142
15	Ultrasensitive Potentiometric Immunosensor Based on SA and OCA Techniques for Immobilization of HBsAb with Colloidal Au and Polyvinyl Butyral as Matrixes. Langmuir, 2004, 20, 7240-7245.	3.5	138
16	New Signal Amplification Strategy Using Semicarbazide as Co-reaction Accelerator for Highly Sensitive Electrochemiluminescent Aptasensor Construction. Analytical Chemistry, 2015, 87, 11389-11397.	6.5	135
17	Proximity Binding and Metal Ion-Dependent DNAzyme Cyclic Amplification-Integrated Aptasensor for Label-Free and Sensitive Electrochemical Detection of Thrombin. Analytical Chemistry, 2016, 88, 8218-8223.	6.5	129
18	Highly Stable Mesoporous Luminescence-Functionalized MOF with Excellent Electrochemiluminescence Property for Ultrasensitive Immunosensor Construction. ACS Applied Materials & Interfaces, 2018, 10, 15913-15919.	8.0	125

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19	Multiplexed and Amplified Electronic Sensor for the Detection of MicroRNAs from Cancer Cells. Analytical Chemistry, 2014, 86, 11913-11918.	6.5	123
20	"Off―to "On―Surface-Enhanced Raman Spectroscopy Platform with Padlock Probe-Based Exponential Rolling Circle Amplification for Ultrasensitive Detection of MicroRNA 155. Analytical Chemistry, 2017, 89, 2866-2872.	6.5	123
21	Ultrasensitive Apurinic/Apyrimidinic Endonuclease 1 Immunosensing Based on Self-Enhanced Electrochemiluminescence of a Ru(II) Complex. Analytical Chemistry, 2014, 86, 1053-1060.	6.5	121
22	Electrochemiluminescent Graphene Quantum Dots as a Sensing Platform: A Dual Amplification for MicroRNA Assay. Analytical Chemistry, 2015, 87, 10385-10391.	6.5	121
23	Ultrasensitive simultaneous detection of four biomarkers based on hybridization chain reaction and biotin–streptavidin signal amplification strategy. Biosensors and Bioelectronics, 2015, 68, 42-48.	10.1	119
24	Ultrasensitive Electrochemiluminescence Biosensor for MicroRNA Detection by 3D DNA Walking Machine Based Target Conversion and Distance-Controllable Signal Quenching and Enhancing. Analytical Chemistry, 2017, 89, 8282-8287.	6.5	119
25	DNA-Fueled Molecular Machine Enables Enzyme-Free Target Recycling Amplification for Electronic Detection of MicroRNA from Cancer Cells with Highly Minimized Background Noise. Analytical Chemistry, 2015, 87, 8578-8583.	6.5	117
26	Bi-directional DNA Walking Machine and Its Application in an Enzyme-Free Electrochemiluminescence Biosensor for Sensitive Detection of MicroRNAs. Analytical Chemistry, 2017, 89, 5036-5042.	6.5	117
27	Porous carbon-coated CuCo ₂ O ₄ concave polyhedrons derived from metal–organic frameworks as anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 12038-12043.	10.3	115
28	Aptamer/Protein Proximity Binding-Triggered Molecular Machine for Amplified Electrochemical Sensing of Thrombin. Analytical Chemistry, 2017, 89, 5138-5143.	6.5	114
29	Novel Double-Potential Electrochemiluminescence Ratiometric Strategy in Enzyme-Based Inhibition Biosensing for Sensitive Detection of Organophosphorus Pesticides. Analytical Chemistry, 2017, 89, 2823-2829.	6.5	113
30	Trimetallic Hybrid Nanoflower-Decorated MoS ₂ Nanosheet Sensor for Direct in Situ Monitoring of H ₂ O ₂ Secreted from Live Cancer Cells. Analytical Chemistry, 2018, 90, 5945-5950.	6.5	113
31	Matrix Coordination-Induced Electrochemiluminescence Enhancement of Tetraphenylethylene-Based Hafnium Metal–Organic Framework: An Electrochemiluminescence Chromophore for Ultrasensitive Electrochemiluminescence Sensor Construction. Analytical Chemistry, 2020, 92, 3380-3387.	6.5	112
32	Electrochemiluminescence Biosensor Based on 3-D DNA Nanomachine Signal Probe Powered by Protein-Aptamer Binding Complex for Ultrasensitive Mucin 1 Detection. Analytical Chemistry, 2017, 89, 4280-4286.	6.5	110
33	Metal Organic Frameworks Combining CoFe ₂ O ₄ Magnetic Nanoparticles as Highly Efficient SERS Sensing Platform for Ultrasensitive Detection of N-Terminal Pro-Brain Natriuretic Peptide. ACS Applied Materials & Interfaces, 2016, 8, 7683-7690.	8.0	109
34	Switchable Target-Responsive 3D DNA Hydrogels As a Signal Amplification Strategy Combining with SERS Technique for Ultrasensitive Detection of miRNA 155. Analytical Chemistry, 2017, 89, 8538-8544.	6.5	107
35	Sensitive electrochemiluminescence detection for CA15-3 based on immobilizing luminol on dendrimer functionalized ZnO nanorods. Biosensors and Bioelectronics, 2015, 63, 33-38.	10.1	106
36	Functional Three-Dimensional Porous Conductive Polymer Hydrogels for Sensitive Electrochemiluminescence in Situ Detection of H ₂ O ₂ Released from Live Cells. Analytical Chemistry, 2018, 90, 8462-8469.	6.5	106

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37	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. Analytical Chemistry, 2018, 90, 8211-8216.	6.5	104
38	An Electrochemical Biosensor for Sensitive Detection of MicroRNA-155: Combining Target Recycling with Cascade Catalysis for Signal Amplification. ACS Applied Materials & Interfaces, 2015, 7, 713-720.	8.0	99
39	Ultrasensitive Lipopolysaccharides Detection Based on Doxorubicin Conjugated <i>N</i> -(Aminobutyl)- <i>N</i> -(ethylisoluminol) as Electrochemiluminescence Indicator and Self-Assembled Tetrahedron DNA Dendrimers as Nanocarriers. Analytical Chemistry, 2016, 88, 5218-5224.	6.5	99
40	Morphology-Controlled 9,10-Diphenylanthracene Nanoblocks as Electrochemiluminescence Emitters for MicroRNA Detection with One-Step DNA Walker Amplification. Analytical Chemistry, 2018, 90, 5298-5305.	6.5	98
41	Highly sensitive impedimetric immunosensor based on single-walled carbon nanohorns as labels and bienzyme biocatalyzed precipitation as enhancer for cancer biomarker detection. Biosensors and Bioelectronics, 2014, 55, 360-365.	10.1	97
42	Highly Efficient Electrochemiluminescent Silver Nanoclusters/Titanium Oxide Nanomaterials as a Signal Probe for Ferrocene-Driven Light Switch Bioanalysis. Analytical Chemistry, 2017, 89, 3732-3738.	6.5	97
43	Electrochemical Peptide Biosensor Based on in Situ Silver Deposition for Detection of Prostate Specific Antigen. ACS Applied Materials & Interfaces, 2015, 7, 13360-13366.	8.0	96
44	Self-Enhanced Electrochemiluminescence Nanorods of Tris(bipyridine) Ruthenium(II) Derivative and Its Sensing Application for Detection of <i>N</i> -Acetyl-β- <scp>d</scp> -glucosaminidase. Analytical Chemistry, 2016, 88, 2258-2265.	6.5	95
45	Biodegradable MnO ₂ Nanosheet-Mediated Signal Amplification in Living Cells Enables Sensitive Detection of Down-Regulated Intracellular MicroRNA. ACS Applied Materials & Interfaces, 2017, 9, 5717-5724.	8.0	95
46	Ultrasensitive Assay for Telomerase Activity via Self-Enhanced Electrochemiluminescent Ruthenium Complex Doped Metal–Organic Frameworks with High Emission Efficiency. Analytical Chemistry, 2017, 89, 3222-3227.	6.5	95
47	Development of an electrochemical method for Ochratoxin A detection based on aptamer and loop-mediated isothermal amplification. Biosensors and Bioelectronics, 2014, 55, 324-329.	10.1	94
48	Cu Nanoclusters: Novel Electrochemiluminescence Emitters for Bioanalysis. Analytical Chemistry, 2016, 88, 11527-11532.	6.5	94
49	MoS ₂ Quantum Dots as New Electrochemiluminescence Emitters for Ultrasensitive Bioanalysis of Lipopolysaccharide. Analytical Chemistry, 2017, 89, 8335-8342.	6.5	94
50	Signal-Switchable Electrochemiluminescence System Coupled with Target Recycling Amplification Strategy for Sensitive Mercury Ion and Mucin 1 Assay. Analytical Chemistry, 2016, 88, 9243-9250.	6.5	93
51	SnS ₂ Quantum Dots as New Emitters with Strong Electrochemiluminescence for Ultrasensitive Antibody Detection. Analytical Chemistry, 2018, 90, 12270-12277.	6.5	93
52	A target responsive aptamer machine for label-free and sensitive non-enzymatic recycling amplification detection of ATP. Chemical Communications, 2016, 52, 3673-3676.	4.1	92
53	Aptamer-Functionalized and Gold Nanoparticle Array-Decorated Magnetic Graphene Nanosheets Enable Multiplexed and Sensitive Electrochemical Detection of Rare Circulating Tumor Cells in Whole Blood. Analytical Chemistry, 2019, 91, 10792-10799.	6.5	92
54	A signal-on electrochemical aptasensor for ultrasensitive detection of endotoxin using three-way DNA junction-aided enzymatic recycling and graphene nanohybrid for amplification. Nanoscale, 2014, 6, 2902.	5.6	91

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55	A DNA-Fueled and Catalytic Molecule Machine Lights Up Trace Under-Expressed MicroRNAs in Living Cells. Analytical Chemistry, 2017, 89, 9934-9940.	6.5	91
56	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. Analytical Chemistry, 2018, 90, 6851-6858.	6.5	91
57	Versatile and Ultrasensitive Electrochemiluminescence Biosensor for Biomarker Detection Based on Nonenzymatic Amplification and Aptamer-Triggered Emitter Release. Analytical Chemistry, 2019, 91, 3452-3458.	6.5	91
58	Electrochemiluminescence of luminol enhanced by the synergetic catalysis of hemin and silver nanoparticles for sensitive protein detection. Biosensors and Bioelectronics, 2014, 54, 20-26.	10.1	90
59	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. Biosensors and Bioelectronics, 2015, 66, 356-362.	10.1	90
60	Ternary Electrochemiluminescence System Based on Rubrene Microrods as Luminophore and Pt Nanomaterials as Coreaction Accelerator for Ultrasensitive Detection of MicroRNA from Cancer Cells. Analytical Chemistry, 2017, 89, 9108-9115.	6.5	90
61	Electrochemiluminescence of peroxydisulfate enhanced by l-cysteine film for sensitive immunoassay. Biosensors and Bioelectronics, 2011, 26, 3175-3180.	10.1	88
62	Anodic Electrochemiluminescence of Carbon Dots Promoted by Nitrogen Doping and Application to Rapid Cancer Cell Detection. Analytical Chemistry, 2020, 92, 1379-1385.	6.5	88
63	A dual-potential electrochemiluminescence ratiometric sensor for sensitive detection of dopamine based on graphene-CdTe quantum dots and self-enhanced Ru(II) complex. Biosensors and Bioelectronics, 2017, 90, 61-68.	10.1	87
64	Click Chemistry Reaction-Triggered 3D DNA Walking Machine for Sensitive Electrochemical Detection of Copper Ion. Analytical Chemistry, 2018, 90, 11439-11445.	6.5	86
65	One DNA circle capture probe with multiple target recognition domains for simultaneous electrochemical detection of miRNA-21 and miRNA-155. Biosensors and Bioelectronics, 2020, 149, 111848.	10.1	86
66	New Type of Redox Nanoprobe: C ₆₀ -Based Nanomaterial and Its Application in Electrochemical Immunoassay for Doping Detection. Analytical Chemistry, 2015, 87, 1669-1675.	6.5	85
67	Electrochemiluminescence Peptide-Based Biosensor with Hetero-Nanostructures as Coreaction Accelerator for the Ultrasensitive Determination of Tryptase. Analytical Chemistry, 2018, 90, 2263-2270.	6.5	85
68	Novel 2D-DNA-Nanoprobe-Mediated Enzyme-Free-Target-Recycling Amplification for the Ultrasensitive Electrochemical Detection of MicroRNA. Analytical Chemistry, 2018, 90, 9538-9544.	6.5	83
69	Dual-color encoded DNAzyme nanostructures for multiplexed detection of intracellular metal ions in living cells. Biosensors and Bioelectronics, 2016, 85, 573-579.	10.1	81
70	Multicolor-Encoded Reconfigurable DNA Nanostructures Enable Multiplexed Sensing of Intracellular MicroRNAs in Living Cells. ACS Applied Materials & Interfaces, 2016, 8, 13303-13308.	8.0	81
71	Highly Efficient Electrochemiluminescence Resonance Energy Transfer System in One Nanostructure: Its Application for Ultrasensitive Detection of MicroRNA in Cancer Cells. Analytical Chemistry, 2017, 89, 6029-6035.	6.5	81
72	Cu/Mn Double-Doped CeO ₂ Nanocomposites as Signal Tags and Signal Amplifiers for Sensitive Electrochemical Detection of Procalcitonin. Analytical Chemistry, 2017, 89, 13349-13356.	6.5	81

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73	Ternary Electrochemiluminescence Nanostructure of Au Nanoclusters as a Highly Efficient Signal Label for Ultrasensitive Detection of Cancer Biomarkers. Analytical Chemistry, 2018, 90, 10024-10030.	6.5	81
74	A novel metal–organic framework loaded with abundant N-(aminobutyl)-N-(ethylisoluminol) as a high-efficiency electrochemiluminescence indicator for sensitive detection of mucin1 on cancer cells. Chemical Communications, 2017, 53, 9705-9708.	4.1	80
75	Metallo-Toehold-Activated Catalytic Hairpin Assembly Formation of Three-Way DNAzyme Junctions for Amplified Fluorescent Detection of Hg ²⁺ . ACS Applied Materials & Interfaces, 2017, 9, 5733-5738.	8.0	79
76	Universal Ratiometric Photoelectrochemical Bioassay with Target-Nucleotide Transduction-Amplification and Electron-Transfer Tunneling Distance Regulation Strategies for Ultrasensitive Determination of microRNA in Cells. Analytical Chemistry, 2017, 89, 9445-9451.	6.5	79
77	Ru(bpy)32+-doped silica nanoparticles labeling for a sandwich-type electrochemiluminescence immunosensor. Biosensors and Bioelectronics, 2010, 25, 1851-1855.	10.1	78
78	An amplified electrochemical immunosensor based on in situ-produced 1-naphthol as electroactive substance and graphene oxide and Pt nanoparticles functionalized CeO2 nanocomposites as signal enhancer. Biosensors and Bioelectronics, 2015, 69, 321-327.	10.1	78
79	Procalcitonin sensitive detection based on graphene–gold nanocomposite film sensor platform and single-walled carbon nanohorns/hollow Pt chains complex as signal tags. Biosensors and Bioelectronics, 2014, 60, 210-217.	10.1	77
80	DNA nanomachine-based regenerated sensing platform: a novel electrochemiluminescence resonance energy transfer strategy for ultra-high sensitive detection of microRNA from cancer cells. Nanoscale, 2017, 9, 2310-2316.	5.6	77
81	In Situ Formation of Multifunctional DNA Nanospheres for a Sensitive and Accurate Dual-Mode Biosensor for Photoelectrochemical and Electrochemical Assay. Analytical Chemistry, 2020, 92, 8364-8370.	6.5	77
82	In situ electro-polymerization of nitrogen doped carbon dots and their application in an electrochemiluminescence biosensor for the detection of intracellular lead ions. Chemical Communications, 2016, 52, 5589-5592.	4.1	76
83	Programmed Dual-Functional DNA Tweezer for Simultaneous and Recognizable Fluorescence Detection of microRNA and Protein. Analytical Chemistry, 2019, 91, 7782-7789.	6.5	76
84	Using p-type PbS Quantum Dots to Quench Photocurrent of Fullerene–Au NP@MoS ₂ Composite Structure for Ultrasensitive Photoelectrochemical Detection of ATP. ACS Applied Materials & Interfaces, 2017, 9, 42111-42120.	8.0	75
85	Electrochemiluminescence Enhanced by Restriction of Intramolecular Motions (RIM): Tetraphenylethylene Microcrystals as a Novel Emitter for Mucin 1 Detection. Analytical Chemistry, 2019, 91, 3710-3716.	6.5	75
86	Highly Stable Covalent Organic Framework Nanosheets as a New Generation of Electrochemiluminescence Emitters for Ultrasensitive MicroRNA Detection. Analytical Chemistry, 2021, 93, 3258-3265.	6.5	75
87	In situ spontaneous reduction synthesis of spherical Pd@Cys-C ₆₀ nanoparticles and its application in nonenzymatic glucose biosensors. Chemical Communications, 2012, 48, 597-599.	4.1	74
88	Direct electrochemistry and electrocatalysis of a glucose oxidase-functionalized bioconjugate as a trace label for ultrasensitive detection of thrombin. Chemical Communications, 2012, 48, 10972.	4.1	74
89	In Situ Electrodeposited Synthesis of Electrochemiluminescent Ag Nanoclusters as Signal Probe for Ultrasensitive Detection of Cyclin-D1 from Cancer Cells. Analytical Chemistry, 2017, 89, 6787-6793.	6.5	74
90	A highly sensitive VEGF165 photoelectrochemical biosensor fabricated by assembly of aptamer bridged DNA networks. Biosensors and Bioelectronics, 2018, 101, 213-218.	10.1	74

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91	Cascaded signal amplification via target-triggered formation of aptazyme for sensitive electrochemical detection of ATP. Biosensors and Bioelectronics, 2018, 102, 296-300.	10.1	74
92	Coreactant-Free Dual Amplified Electrochemiluminescent Biosensor Based on Conjugated Polymer Dots for the Ultrasensitive Detection of MicroRNA. ACS Applied Materials & Interfaces, 2019, 11, 27363-27370.	8.0	74
93	A Sensitive Electrochemical Aptasensor for Thrombin Detection Based on Electroactive Co-Based Metal–Organic Frameworks with Target-Triggering NESA Strategy. Analytical Chemistry, 2017, 89, 11636-11640.	6.5	72
94	Dynamical Regulation of Enzyme Cascade Amplification by a Regenerated DNA Nanotweezer for Ultrasensitive Electrochemical DNA Detection. Analytical Chemistry, 2018, 90, 10701-10706.	6.5	72
95	An AlEgen-based 2D ultrathin metal–organic layer as an electrochemiluminescence platform for ultrasensitive biosensing of carcinoembryonic antigen. Nanoscale, 2020, 12, 5932-5941.	5.6	71
96	Coupling hybridization chain reaction with catalytic hairpin assembly enables non-enzymatic and sensitive fluorescent detection of microRNA cancer biomarkers. Biosensors and Bioelectronics, 2016, 77, 416-420.	10.1	70
97	Dual microRNAs-Fueled DNA Nanogears: A Case of Regenerated Strategy for Multiple Electrochemiluminescence Detection of microRNAs with Single Luminophore. Analytical Chemistry, 2017, 89, 1338-1345.	6.5	70
98	Luminescenceâ€Functionalized Metal–Organic Frameworks Based on a Ruthenium(II) Complex: A Signal Amplification Strategy for Electrogenerated Chemiluminescence Immunosensors. Chemistry - A European Journal, 2015, 21, 9825-9832.	3.3	69
99	Ferrocene covalently confined in porous MOF as signal tag for highly sensitive electrochemical immunoassay of amyloid-β. Journal of Materials Chemistry B, 2017, 5, 8330-8336.	5.8	69
100	Hollow Porous Polymeric Nanospheres of a Self-Enhanced Ruthenium Complex with Improved Electrochemiluminescent Efficiency for Ultrasensitive Aptasensor Construction. Analytical Chemistry, 2017, 89, 9232-9238.	6.5	69
101	In-situ carbonization for template-free synthesis of MoO2-Mo2C-C microspheres as high-performance lithium battery anode. Chemical Engineering Journal, 2018, 337, 74-81.	12.7	69
102	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. Analytical Chemistry, 2019, 91, 3681-3686.	6.5	69
103	An ultrasensitive electrochemiluminescence biosensor for detection of MicroRNA by in-situ electrochemically generated copper nanoclusters as luminophore and TiO2 as coreaction accelerator. Biosensors and Bioelectronics, 2018, 114, 10-14.	10.1	68
104	A Janus 3D DNA nanomachine for simultaneous and sensitive fluorescence detection and imaging of dual microRNAs in cancer cells. Chemical Science, 2020, 11, 8482-8488.	7.4	68
105	Novel electrochemical catalysis as signal amplified strategy for label-free detection of neuron-specific enolase. Biosensors and Bioelectronics, 2012, 31, 399-405.	10.1	67
106	A sensitive electrochemical aptasensor based on the co-catalysis of hemin/G-quadruplex, platinum nanoparticles and flower-like MnO ₂ nanosphere functionalized multi-walled carbon nanotubes. Chemical Communications, 2015, 51, 1472-1474.	4.1	67
107	Ce-based metal-organic frameworks and DNAzyme-assisted recycling as dual signal amplifiers for sensitive electrochemical detection of lipopolysaccharide. Biosensors and Bioelectronics, 2016, 83, 287-292.	10.1	67
108	An ultrasensitive electrochemiluminescence biosensor for MicroRNA detection based on luminol-functionalized Au NPs@ZnO nanomaterials as signal probe and dissolved O2 as coreactant. Biosensors and Bioelectronics, 2019, 135, 8-13.	10.1	66

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109	In Situ Controllable Generation of Copper Nanoclusters Confined in a Poly- <scp>l</scp> -Cysteine Porous Film with Enhanced Electrochemiluminescence for Alkaline Phosphatase Detection. Analytical Chemistry, 2020, 92, 13581-13587.	6.5	66
110	Au nanoparticles decorated C60 nanoparticle-based label-free electrochemiluminesence aptasensor via a novel "on-off-on―switch system. Biomaterials, 2015, 52, 476-483.	11.4	65
111	Highly sensitive electrochemiluminescenc assay of acetylcholinesterase activity based on dual biomarkers using Pd–Au nanowires as immobilization platform. Biosensors and Bioelectronics, 2016, 79, 34-40.	10.1	65
112	PtNPs as Scaffolds to Regulate Interenzyme Distance for Construction of Efficient Enzyme Cascade Amplification for Ultrasensitive Electrochemical Detection of MMP-2. Analytical Chemistry, 2017, 89, 9383-9387.	6.5	65
113	Programmable Modulation of Copper Nanoclusters Electrochemiluminescence via DNA Nanocranes for Ultrasensitive Detection of microRNA. Analytical Chemistry, 2018, 90, 3543-3549.	6.5	65
114	An electrogenerated chemiluminescence sensor based on gold nanoparticles@C60 hybrid for the determination of phenolic compounds. Biosensors and Bioelectronics, 2014, 60, 325-331.	10.1	64
115	Aptamer Pseudoknot-Functionalized Electronic Sensor for Reagentless and Single-Step Detection of Immunoglobulin E in Human Serum. Analytical Chemistry, 2015, 87, 3094-3098.	6.5	64
116	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. Electroanalysis, 2006, 18, 471-477.	2.9	63
117	A Novel Nonenzymatic Hydrogen Peroxide Sensor Based on a Polypyrrole Nanowire-Copper Nanocomposite Modified Gold Electrode. Sensors, 2008, 8, 5141-5152.	3.8	63
118	Target-induced structure switching of hairpin aptamers for label-free and sensitive fluorescent detection of ATP via exonuclease-catalyzed target recycling amplification. Biosensors and Bioelectronics, 2014, 51, 293-296.	10.1	63
119	MicroRNA-triggered, cascaded and catalytic self-assembly of functional "DNAzyme ferris wheel― nanostructures for highly sensitive colorimetric detection of cancer cells. Nanoscale, 2015, 7, 9055-9061.	5.6	63
120	Perylene Derivative/Luminol Nanocomposite as a Strong Electrochemiluminescence Emitter for Construction of an Ultrasensitive MicroRNA Biosensor. Analytical Chemistry, 2019, 91, 1516-1523.	6.5	63
121	Sensitive detection of copper(II) by a commercial glucometer using click chemistry. Biosensors and Bioelectronics, 2013, 45, 219-222.	10.1	62
122	Ultrasensitive Cytosensor Based on Self-Enhanced Electrochemiluminescent Ruthenium-Silica Composite Nanoparticles for Efficient Drug Screening with Cell Apoptosis Monitoring. Analytical Chemistry, 2015, 87, 12363-12371.	6.5	62
123	A sensitive electrochemical aptasensor based on palladium nanoparticles decorated graphene–molybdenum disulfide flower-like nanocomposites and enzymatic signal amplification. Analytica Chimica Acta, 2015, 853, 234-241.	5.4	62
124	Target-triggered catalytic hairpin assembly and TdT-catalyzed DNA polymerization for amplified electronic detection of thrombin in human serums. Biosensors and Bioelectronics, 2017, 87, 495-500.	10.1	62
125	Self-Enhanced Ultrasensitive Photoelectrochemical Biosensor Based on Nanocapsule Packaging Both Donor–Acceptor-Type Photoactive Material and Its Sensitizer. Analytical Chemistry, 2016, 88, 8698-8705.	6.5	61
126	An ultrasensitive "on–off–on―photoelectrochemical aptasensor based on signal amplification of a fullerene/CdTe quantum dots sensitized structure and efficient quenching by manganese porphyrin. Chemical Communications, 2016, 52, 8138-8141.	4.1	61

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127	A highly sensitive electrochemiluminescence biosensor for the detection of organophosphate pesticides based on cyclodextrin functionalized graphitic carbon nitride and enzyme inhibition. Chemical Communications, 2016, 52, 5049-5052.	4.1	61
128	Enzyme-free Target Recycling and Double-Output Amplification System for Electrochemiluminescent Assay of Mucin 1 with MoS ₂ Nanoflowers as Co-reaction Accelerator. ACS Applied Materials & Interfaces, 2018, 10, 14483-14490.	8.0	61
129	An enzyme-free electrochemical biosensor combining target recycling with Fe3O4/CeO2@Au nanocatalysts for microRNA-21 detection. Biosensors and Bioelectronics, 2018, 119, 170-175.	10.1	61
130	Dendrimer functionalized reduced graphene oxide as nanocarrier for sensitive pseudobienzyme electrochemicalaptasensor. Biosensors and Bioelectronics, 2013, 42, 474-480.	10.1	60
131	Tracing Phosphate Ions Generated during Loop-Mediated Isothermal Amplification for Electrochemical Detection of <i>Nosema bombycis</i> Genomic DNA PTP1. Analytical Chemistry, 2015, 87, 10268-10274.	6.5	60
132	Hemin as electrochemically regenerable co-reaction accelerator for construction of an ultrasensitive PTCA-based electrochemiluminescent aptasensor. Biosensors and Bioelectronics, 2018, 100, 490-496.	10.1	60
133	Ultrasensitive Electrochemiluminescence Biosensor for Speedy Detection of microRNA Based on a DNA Rolling Machine and Target Recycling. Analytical Chemistry, 2019, 91, 4883-4888.	6.5	60
134	Highly Sensitive Photoelectrochemical Biosensor Based on Quantum Dots Sensitizing Bi ₂ Te ₃ Nanosheets and DNA-Amplifying Strategies. ACS Applied Materials & Interfaces, 2020, 12, 22624-22629.	8.0	60
135	Electrochemical aptasensor based on the dual-amplification of C-quadruplex horseradish peroxidase-mimicking DNAzyme and blocking reagent-horseradish peroxidase. Biosensors and Bioelectronics, 2011, 26, 4236-4240.	10.1	59
136	Dual amplified and ultrasensitive electrochemical detection of mutant DNA Biomarkers based on nuclease-assisted target recycling and rolling circle amplifications. Biosensors and Bioelectronics, 2014, 55, 266-271.	10.1	59
137	Toehold strand displacement-driven assembly of C-quadruplex DNA for enzyme-free and non-label sensitive fluorescent detection of thrombin. Biosensors and Bioelectronics, 2015, 64, 306-310.	10.1	59
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