

Ruo Yuan

List of Publications by Year in descending order

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633
papers

25,086
citations

8755

77
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35168

102
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634
all docs

634
docs citations

634
times ranked

14557
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical sensing of hydrogen peroxide using metal nanoparticles: a review. <i>Mikrochimica Acta</i> , 2013, 180, 15-32.	2.5	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.	3.2	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.	6.6	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.	3.2	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.	3.2	174
6	A multifunctional hemin-organic framework and its application to construct an electrochemical aptasensor for thrombin detection. <i>Nanoscale</i> , 2015, 7, 18232-18238.	2.8	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.	3.2	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.	3.2	152
9	Strong Electrochemiluminescence from MOF Accelerator Enriched Quantum Dots for Enhanced Sensing of Trace cTnI. <i>Analytical Chemistry</i> , 2018, 90, 3995-4002.	3.2	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.	3.7	148
11	Simultaneous electrochemical detection of multiple analytes based on dual signal amplification of single-walled carbon nanotubes and multi-labeled graphene sheets. <i>Biomaterials</i> , 2012, 33, 1090-1096.	5.7	147
12	Electrochemiluminescence Resonance Energy Transfer System: Mechanism and Application in Ratiometric Aptasensor for Lead Ion. <i>Analytical Chemistry</i> , 2015, 87, 7787-7794.	3.2	147
13	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.	4.0	143
14	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.	4.0	142
15	Ultrasensitive Potentiometric Immunosensor Based on SA and OCA Techniques for Immobilization of HBsAb with Colloidal Au and Polyvinyl Butyral as Matrixes. <i>Langmuir</i> , 2004, 20, 7240-7245.	1.6	138
16	New Signal Amplification Strategy Using Semicarbazide as Co-reaction Accelerator for Highly Sensitive Electrochemiluminescent Aptasensor Construction. <i>Analytical Chemistry</i> , 2015, 87, 11389-11397.	3.2	135
17	Proximity Binding and Metal Ion-Dependent DNAzyme Cyclic Amplification-Integrated Aptasensor for Label-Free and Sensitive Electrochemical Detection of Thrombin. <i>Analytical Chemistry</i> , 2016, 88, 8218-8223.	3.2	129
18	Highly Stable Mesoporous Luminescence-Functionalized MOF with Excellent Electrochemiluminescence Property for Ultrasensitive Immunosensor Construction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15913-15919.	4.0	125

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19	Multiplexed and Amplified Electronic Sensor for the Detection of MicroRNAs from Cancer Cells. <i>Analytical Chemistry</i> , 2014, 86, 11913-11918.	3.2	123
20	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.	3.2	123
21	Ultrasensitive Apurinic/Apyrimidinic Endonuclease 1 Immunosensing Based on Self-Enhanced Electrochemiluminescence of a Ru(II) Complex. <i>Analytical Chemistry</i> , 2014, 86, 1053-1060.	3.2	121
22	Electrochemiluminescent Graphene Quantum Dots as a Sensing Platform: A Dual Amplification for MicroRNA Assay. <i>Analytical Chemistry</i> , 2015, 87, 10385-10391.	3.2	121
23	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.	5.3	119
24	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.	3.2	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. <i>Analytical Chemistry</i> , 2015, 87, 8578-8583.	3.2	117
26	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.	3.2	117
27	Porous carbon-coated CuCo ₂ O 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.	5.2	115
28	Aptamer/Protein Proximity Binding-Triggered Molecular Machine for Amplified Electrochemical Sensing of Thrombin. <i>Analytical Chemistry</i> , 2017, 89, 5138-5143.	3.2	114
29	Novel Double-Potential Electrochemiluminescence Ratiometric Strategy in Enzyme-Based Inhibition Biosensing for Sensitive Detection of Organophosphorus Pesticides. <i>Analytical Chemistry</i> , 2017, 89, 2823-2829.	3.2	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. <i>Analytical Chemistry</i> , 2018, 90, 5945-5950.	3.2	113
31	Matrix Coordination-Induced Electrochemiluminescence Enhancement of Tetraphenylethylene-Based Hafnium Metal-Organic Framework: An Electrochemiluminescence Chromophore for Ultrasensitive Electrochemiluminescence Sensor Construction. <i>Analytical Chemistry</i> , 2020, 92, 3380-3387.	3.2	112
32	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.	3.2	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. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7683-7690.	4.0	109
34	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.	3.2	107
35	Sensitive electrochemiluminescence detection for CA15-3 based on immobilizing luminol on dendrimer functionalized ZnO nanorods. <i>Biosensors and Bioelectronics</i> , 2015, 63, 33-38.	5.3	106
36	Functional Three-Dimensional Porous Conductive Polymer Hydrogels for Sensitive Electrochemiluminescence in Situ Detection of H ₂ O ₂ Released from Live Cells. <i>Analytical Chemistry</i> , 2018, 90, 8462-8469.	3.2	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. <i>Analytical Chemistry</i> , 2018, 90, 8211-8216.	3.2	104
38	An Electrochemical Biosensor for Sensitive Detection of MicroRNA-155: Combining Target Recycling with Cascade Catalysis for Signal Amplification. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 713-720.	4.0	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. <i>Analytical Chemistry</i> , 2016, 88, 5218-5224.	3.2	99
40	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.	3.2	98
41	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.	5.3	97
42	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.	3.2	97
43	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.	4.0	96
44	Self-Enhanced Electrochemiluminescence Nanorods of Tris(bipyridine) Ruthenium(II) Derivative and Its Sensing Application for Detection of <i>N</i> -Acetyl- β -D-glucosaminidase. <i>Analytical Chemistry</i> , 2016, 88, 2258-2265.	3.2	95
45	Biodegradable MnO ₂ Nanosheet-Mediated Signal Amplification in Living Cells Enables Sensitive Detection of Down-Regulated Intracellular MicroRNA. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5717-5724.	4.0	95
46	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.	3.2	95
47	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.	5.3	94
48	Cu Nanoclusters: Novel Electrochemiluminescence Emitters for Bioanalysis. <i>Analytical Chemistry</i> , 2016, 88, 11527-11532.	3.2	94
49	MoS ₂ Quantum Dots as New Electrochemiluminescence Emitters for Ultrasensitive Bioanalysis of Lipopolysaccharide. <i>Analytical Chemistry</i> , 2017, 89, 8335-8342.	3.2	94
50	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.	3.2	93
51	SnS ₂ Quantum Dots as New Emitters with Strong Electrochemiluminescence for Ultrasensitive Antibody Detection. <i>Analytical Chemistry</i> , 2018, 90, 12270-12277.	3.2	93
52	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.	2.2	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. <i>Analytical Chemistry</i> , 2019, 91, 10792-10799.	3.2	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. <i>Nanoscale</i> , 2014, 6, 2902.	2.8	91

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55	A DNA-Fueled and Catalytic Molecule Machine Lights Up Trace Under-Expressed MicroRNAs in Living Cells. <i>Analytical Chemistry</i> , 2017, 89, 9934-9940.	3.2	91
56	Silver Ions as Novel Coreaction Accelerator for Remarkably Enhanced Electrochemiluminescence in a PtCAâ€“S ₂ O ₈ ²⁻ System and Its Application in an Ultrasensitive Assay for Mercury Ions. <i>Analytical Chemistry</i> , 2018, 90, 6851-6858.	3.2	91
57	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.	3.2	91
58	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.	5.3	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. <i>Biosensors and Bioelectronics</i> , 2015, 66, 356-362.	5.3	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. <i>Analytical Chemistry</i> , 2017, 89, 9108-9115.	3.2	90
61	Electrochemiluminescence of peroxydisulfate enhanced by l-cysteine film for sensitive immunoassay. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3175-3180.	5.3	88
62	Anodic Electrochemiluminescence of Carbon Dots Promoted by Nitrogen Doping and Application to Rapid Cancer Cell Detection. <i>Analytical Chemistry</i> , 2020, 92, 1379-1385.	3.2	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. <i>Biosensors and Bioelectronics</i> , 2017, 90, 61-68.	5.3	87
64	Click Chemistry Reaction-Triggered 3D DNA Walking Machine for Sensitive Electrochemical Detection of Copper Ion. <i>Analytical Chemistry</i> , 2018, 90, 11439-11445.	3.2	86
65	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.	5.3	86
66	New Type of Redox Nanoprobe: C ₆₀ -Based Nanomaterial and Its Application in Electrochemical Immunoassay for Doping Detection. <i>Analytical Chemistry</i> , 2015, 87, 1669-1675.	3.2	85
67	Electrochemiluminescence Peptide-Based Biosensor with Hetero-Nanostructures as Coreaction Accelerator for the Ultrasensitive Determination of Tryptase. <i>Analytical Chemistry</i> , 2018, 90, 2263-2270.	3.2	85
68	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.	3.2	83
69	Dual-color encoded DNAzyme nanostructures for multiplexed detection of intracellular metal ions in living cells. <i>Biosensors and Bioelectronics</i> , 2016, 85, 573-579.	5.3	81
70	Multicolor-Encoded Reconfigurable DNA Nanostructures Enable Multiplexed Sensing of Intracellular MicroRNAs in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13303-13308.	4.0	81
71	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.	3.2	81
72	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.	3.2	81

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73	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.	3.2	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. <i>Chemical Communications</i> , 2017, 53, 9705-9708.	2.2	80
75	Metallo-Toehold-Activated Catalytic Hairpin Assembly Formation of Three-Way DNAzyme Junctions for Amplified Fluorescent Detection of Hg ²⁺ . <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5733-5738.	4.0	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. <i>Analytical Chemistry</i> , 2017, 89, 9445-9451.	3.2	79
77	Ru(bpy) ₃ ²⁺ -doped silica nanoparticles labeling for a sandwich-type electrochemiluminescence immunosensor. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1851-1855.	5.3	78
78	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.	5.3	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. <i>Biosensors and Bioelectronics</i> , 2014, 60, 210-217.	5.3	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. <i>Nanoscale</i> , 2017, 9, 2310-2316.	2.8	77
81	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.	3.2	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. <i>Chemical Communications</i> , 2016, 52, 5589-5592.	2.2	76
83	Programmed Dual-Functional DNA Tweezer for Simultaneous and Recognizable Fluorescence Detection of microRNA and Protein. <i>Analytical Chemistry</i> , 2019, 91, 7782-7789.	3.2	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. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42111-42120.	4.0	75
85	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.	3.2	75
86	Highly Stable Covalent Organic Framework Nanosheets as a New Generation of Electrochemiluminescence Emitters for Ultrasensitive MicroRNA Detection. <i>Analytical Chemistry</i> , 2021, 93, 3258-3265.	3.2	75
87	In situ spontaneous reduction synthesis of spherical Pd@Cys-C ₆₀ nanoparticles and its application in nonenzymatic glucose biosensors. <i>Chemical Communications</i> , 2012, 48, 597-599.	2.2	74
88	Direct electrochemistry and electrocatalysis of a glucose oxidase-functionalized bioconjugate as a trace label for ultrasensitive detection of thrombin. <i>Chemical Communications</i> , 2012, 48, 10972.	2.2	74
89	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.	3.2	74
90	A highly sensitive VEGF165 photoelectrochemical biosensor fabricated by assembly of aptamer bridged DNA networks. <i>Biosensors and Bioelectronics</i> , 2018, 101, 213-218.	5.3	74

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91	Cascaded signal amplification via target-triggered formation of aptazyme for sensitive electrochemical detection of ATP. <i>Biosensors and Bioelectronics</i> , 2018, 102, 296-300.	5.3	74
92	Coreactant-Free Dual Amplified Electrochemiluminescent Biosensor Based on Conjugated Polymer Dots for the Ultrasensitive Detection of MicroRNA. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27363-27370.	4.0	74
93	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.	3.2	72
94	Dynamical Regulation of Enzyme Cascade Amplification by a Regenerated DNA Nanotweezer for Ultrasensitive Electrochemical DNA Detection. <i>Analytical Chemistry</i> , 2018, 90, 10701-10706.	3.2	72
95	An AIEgen-based 2D ultrathin metal-organic layer as an electrochemiluminescence platform for ultrasensitive biosensing of carcinoembryonic antigen. <i>Nanoscale</i> , 2020, 12, 5932-5941.	2.8	71
96	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.	5.3	70
97	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.	3.2	70
98	Luminescence-Functionalized Metal-Organic Frameworks Based on a Ruthenium(II) Complex: A Signal Amplification Strategy for Electrogenerated Chemiluminescence Immunosensors. <i>Chemistry - A European Journal</i> , 2015, 21, 9825-9832.	1.7	69
99	Ferrocene covalently confined in porous MOF as signal tag for highly sensitive electrochemical immunoassay of amyloid- β . <i>Journal of Materials Chemistry B</i> , 2017, 5, 8330-8336.	2.9	69
100	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.	3.2	69
101	In-situ carbonization for template-free synthesis of MoO ₂ -Mo ₂ C-C microspheres as high-performance lithium battery anode. <i>Chemical Engineering Journal</i> , 2018, 337, 74-81.	6.6	69
102	Novel Ru(bpy) ₂ (cpaphen) ₂ /TPPrA/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.	3.2	69
103	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.	5.3	68
104	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.	3.7	68
105	Novel electrochemical catalysis as signal amplified strategy for label-free detection of neuron-specific enolase. <i>Biosensors and Bioelectronics</i> , 2012, 31, 399-405.	5.3	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. <i>Chemical Communications</i> , 2015, 51, 1472-1474.	2.2	67
107	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.	5.3	67
108	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.	5.3	66

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109	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.	3.2	66
110	Au nanoparticles decorated C60 nanoparticle-based label-free electrochemiluminescence aptasensor via a novel "on-off" switch system. <i>Biomaterials</i> , 2015, 52, 476-483.	5.7	65
111	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.	5.3	65
112	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.	3.2	65
113	Programmable Modulation of Copper Nanoclusters Electrochemiluminescence via DNA Nanocranes for Ultrasensitive Detection of microRNA. <i>Analytical Chemistry</i> , 2018, 90, 3543-3549.	3.2	65
114	An electrogenerated chemiluminescence sensor based on gold nanoparticles@C60 hybrid for the determination of phenolic compounds. <i>Biosensors and Bioelectronics</i> , 2014, 60, 325-331.	5.3	64
115	Aptamer Pseudoknot-Functionalized Electronic Sensor for Reagentless and Single-Step Detection of Immunoglobulin E in Human Serum. <i>Analytical Chemistry</i> , 2015, 87, 3094-3098.	3.2	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. <i>Electroanalysis</i> , 2006, 18, 471-477.	1.5	63
117	A Novel Nonenzymatic Hydrogen Peroxide Sensor Based on a Polypyrrole Nanowire-Copper Nanocomposite Modified Gold Electrode. <i>Sensors</i> , 2008, 8, 5141-5152.	2.1	63
118	Target-induced structure switching of hairpin aptamers for label-free and sensitive fluorescent detection of ATP via exonuclease-catalyzed target recycling amplification. <i>Biosensors and Bioelectronics</i> , 2014, 51, 293-296.	5.3	63
119	MicroRNA-triggered, cascaded and catalytic self-assembly of functional "DNAzyme ferris wheel" nanostructures for highly sensitive colorimetric detection of cancer cells. <i>Nanoscale</i> , 2015, 7, 9055-9061.	2.8	63
120	Perylene Derivative/Luminol Nanocomposite as a Strong Electrochemiluminescence Emitter for Construction of an Ultrasensitive MicroRNA Biosensor. <i>Analytical Chemistry</i> , 2019, 91, 1516-1523.	3.2	63
121	Sensitive detection of copper(II) by a commercial glucometer using click chemistry. <i>Biosensors and Bioelectronics</i> , 2013, 45, 219-222.	5.3	62
122	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.	3.2	62
123	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.	2.6	62
124	Target-triggered catalytic hairpin assembly and TdT-catalyzed DNA polymerization for amplified electronic detection of thrombin in human serums. <i>Biosensors and Bioelectronics</i> , 2017, 87, 495-500.	5.3	62
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