

# Chun-Yang Zhang

## List of Publications by Year in descending order

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215  
papers

9,537  
citations

34076

52  
h-index

49868

87  
g-index

222  
all docs

222  
docs citations

222  
times ranked

7890  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-quantum-dot-based DNA nanosensor. <i>Nature Materials</i> , 2005, 4, 826-831.	13.3	921
2	Toward Biocompatible Semiconductor Quantum Dots: From Biosynthesis and Bioconjugation to Biomedical Application. <i>Chemical Reviews</i> , 2015, 115, 11669-11717.	23.0	566
3	Site-Selective Growth of Crystalline Ceria with Oxygen Vacancies on Gold Nanocrystals for Near-Infrared Nitrogen Photofixation. <i>Journal of the American Chemical Society</i> , 2019, 141, 5083-5086.	6.6	222
4	Sensitive Detection of microRNA with Isothermal Amplification and a Single-Quantum-Dot-Based Nanosensor. <i>Analytical Chemistry</i> , 2012, 84, 224-231.	3.2	218
5	Fluorescent Biosensors Based on Single-Molecule Counting. <i>Accounts of Chemical Research</i> , 2016, 49, 1722-1730.	7.6	218
6	Single Quantum-Dot-Based Aptameric Nanosensor for Cocaine. <i>Analytical Chemistry</i> , 2009, 81, 3051-3055.	3.2	213
7	Single Quantum Dot-Based Nanosensor for Multiple DNA Detection. <i>Analytical Chemistry</i> , 2010, 82, 1921-1927.	3.2	162
8	Sensitive Detection of DNA Methyltransferase Using Hairpin Probe-Based Primer Generation Rolling Circle Amplification-Induced Chemiluminescence. <i>Analytical Chemistry</i> , 2013, 85, 6143-6150.	3.2	144
9	Liposome-Quantum Dot Complexes Enable Multiplexed Detection of Attomolar DNAs without Target Amplification. <i>Journal of the American Chemical Society</i> , 2013, 135, 2056-2059.	6.6	138
10	Highly Sensitive Detection of Protein with Aptamer-Based Target-Triggering Two-Stage Amplification. <i>Analytical Chemistry</i> , 2012, 84, 1623-1629.	3.2	136
11	Sensitive Detection of MicroRNAs with Hairpin Probe-Based Circular Exponential Amplification Assay. <i>Analytical Chemistry</i> , 2012, 84, 7037-7042.	3.2	126
12	Sensitive and Label-Free DNA Methylation Detection by Ligation-Mediated Hyperbranched Rolling Circle Amplification. <i>Analytical Chemistry</i> , 2012, 84, 6199-6205.	3.2	123
13	Development of quantum dot-based biosensors: principles and applications. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6173-6190.	2.9	119
14	Catalytic Self-Assembly of Quantum-Dot-Based MicroRNA Nanosensor Directed by Toehold-Mediated Strand Displacement Cascade. <i>Nano Letters</i> , 2019, 19, 6370-6376.	4.5	118
15	Sensitive Detection of Transcription Factors by Isothermal Exponential Amplification-Based Colorimetric Assay. <i>Analytical Chemistry</i> , 2012, 84, 9544-9549.	3.2	115
16	Excision Repair-Initiated Enzyme-Assisted Bicyclic Cascade Signal Amplification for Ultrasensitive Detection of Uracil-DNA Glycosylase. <i>Analytical Chemistry</i> , 2017, 89, 4488-4494.	3.2	109
17	Ultrasensitive Detection of Telomerase Activity at the Single-Cell Level. <i>Analytical Chemistry</i> , 2013, 85, 11509-11517.	3.2	107
18	Ultrasensitive Detection of Transcription Factors Using Transcription-Mediated Isothermally Exponential Amplification-Induced Chemiluminescence. <i>Analytical Chemistry</i> , 2014, 86, 6006-6011.	3.2	105

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19	Integration of isothermal amplification with quantum dot-based fluorescence resonance energy transfer for simultaneous detection of multiple microRNAs. <i>Chemical Science</i> , 2018, 9, 4258-4267.	3.7	105
20	Rapid and Label-Free Monitoring of Exonuclease III-Assisted Target Recycling Amplification. <i>Analytical Chemistry</i> , 2012, 84, 10845-10851.	3.2	101
21	Homogeneous and Label-Free Detection of MicroRNAs Using Bifunctional Strand Displacement Amplification-Mediated Hyperbranched Rolling Circle Amplification. <i>Analytical Chemistry</i> , 2014, 86, 6703-6709.	3.2	97
22	Quantum-Dot-Based Nanosensor for RRE IIB RNA <sup>Δ</sup> ~Rev Peptide Interaction Assay. <i>Journal of the American Chemical Society</i> , 2006, 128, 5324-5325.	6.6	92
23	Isothermally Sensitive Detection of Serum Circulating miRNAs for Lung Cancer Diagnosis. <i>Analytical Chemistry</i> , 2013, 85, 11174-11179.	3.2	86
24	Surface-enhanced Raman spectroscopy for simultaneous sensitive detection of multiple microRNAs in lung cancer cells. <i>Chemical Communications</i> , 2014, 50, 11883-11886.	2.2	86
25	Sensitive Quantification of MicroRNAs by Isothermal Helicase-Dependent Amplification. <i>Analytical Chemistry</i> , 2017, 89, 6182-6187.	3.2	79
26	Quantum Dot-Based Fluorescence Resonance Energy Transfer with Improved FRET Efficiency in Capillary Flows. <i>Analytical Chemistry</i> , 2006, 78, 5532-5537.	3.2	78
27	An electrochemical biosensor based on the enhanced quasi-reversible redox signal of prussian blue generated by self-sacrificial label of iron metal-organic framework. <i>Biosensors and Bioelectronics</i> , 2018, 122, 168-174.	5.3	78
28	High-performance hierarchical ultrathin sheet-based CoOOH hollow nanospheres with rich oxygen vacancies for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7777-7783.	5.2	77
29	Simultaneous detection of mercury( <sup>ii</sup> ) and silver( <sup>i</sup> ) ions with picomolar sensitivity. <i>Chemical Communications</i> , 2014, 50, 572-574.	2.2	76
30	Single-Molecule Detection of Polynucleotide Kinase Based on Phosphorylation-Directed Recovery of Fluorescence Quenched by Au Nanoparticles. <i>Analytical Chemistry</i> , 2017, 89, 7255-7261.	3.2	74
31	Advances in single quantum dot-based nanosensors. <i>Chemical Communications</i> , 2017, 53, 13284-13295.	2.2	74
32	Mimic Peroxidase- and Bi <sub>2</sub> S <sub>3</sub> Nanorod-Based Photoelectrochemical Biosensor for Signal-On Detection of Polynucleotide Kinase. <i>Analytical Chemistry</i> , 2018, 90, 11478-11485.	3.2	72
33	Tetraphenylthene-Based Conjugated Microporous Polymer for Aggregation-Induced Electrochemiluminescence. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7966-7973.	4.0	70
34	Single quantum dot-based nanosensor for sensitive detection of 5-methylcytosine at both CpG and non-CpG sites. <i>Chemical Science</i> , 2018, 9, 1330-1338.	3.7	68
35	Construction of Tetrahedral DNA-Quantum Dot Nanostructure with the Integration of Multistep Förster Resonance Energy Transfer for Multiplex Enzymes Assay. <i>ACS Nano</i> , 2019, 13, 7191-7201.	7.3	68
36	Phosphorylation-Directed Assembly of a Single Quantum Dot Based Nanosensor for Protein Kinase Assay. <i>Analytical Chemistry</i> , 2015, 87, 4696-4703.	3.2	67

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37	Sensing telomerase: From in vitro detection to in vivo imaging. <i>Chemical Science</i> , 2017, 8, 2495-2502.	3.7	67
38	An ultrasensitive electrochemical biosensor for polynucleotide kinase assay based on gold nanoparticle-mediated lambda exonuclease cleavage-induced signal amplification. <i>Biosensors and Bioelectronics</i> , 2018, 99, 1-7.	5.3	66
39	Construction of a Robust Entropy-Driven DNA Nanomachine for Single-Molecule Detection of Rare Cancer Cells. <i>Analytical Chemistry</i> , 2019, 91, 7505-7509.	3.2	65
40	Simultaneous sensitive detection of multiple DNA glycosylases from lung cancer cells at the single-molecule level. <i>Chemical Science</i> , 2018, 9, 712-720.	3.7	64
41	Symmetry-Broken Au-Cu Heterostructures and their Tandem Catalysis Process in Electrochemical CO <sub>2</sub> Reduction. <i>Advanced Functional Materials</i> , 2021, 31, 2101255.	7.8	64
42	Base-Excision-Repair-Induced Construction of a Single Quantum-Dot-Based Sensor for Sensitive Detection of DNA Glycosylase Activity. <i>Analytical Chemistry</i> , 2016, 88, 7523-7529.	3.2	63
43	Multicolor Quantum Dot-Based Chemical Nose for Rapid and Array-Free Differentiation of Multiple Proteins. <i>Analytical Chemistry</i> , 2016, 88, 2051-2058.	3.2	62
44	Real-Time Detection of Transcription Factors Using Target-Converted Helicase-Dependent Amplification Assay with Zero-Background Signal. <i>Analytical Chemistry</i> , 2013, 85, 2543-2547.	3.2	61
45	Sensitive detection of microRNAs by duplex specific nuclease-assisted target recycling and pyrene excimer switching. <i>Chemical Communications</i> , 2017, 53, 10596-10599.	2.2	61
46	Quencher-Free Fluorescent Method for Homogeneously Sensitive Detection of MicroRNAs in Human Lung Tissues. <i>Analytical Chemistry</i> , 2014, 86, 11410-11416.	3.2	60
47	A reusable ratiometric electrochemical biosensor on the basis of the binding of methylene blue to DNA with alternating AT base sequence for sensitive detection of adenosine. <i>Biosensors and Bioelectronics</i> , 2018, 102, 87-93.	5.3	60
48	Homogeneous Bioluminescence Detection of Biomolecules Using Target-Triggered Hybridization Chain Reaction-Mediated Ligation without Luciferase Label. <i>Analytical Chemistry</i> , 2013, 85, 6915-6921.	3.2	58
49	Sensitive detection of alkaline phosphatase by dephosphorylation-initiated transcription reaction-mediated dual signal amplification. <i>Chemical Communications</i> , 2018, 54, 2413-2416.	2.2	58
50	A single quantum dot-based biosensor for telomerase assay. <i>Chemical Communications</i> , 2015, 51, 6808-6811.	2.2	57
51	Quantum dot-based electrochemical biosensor for stripping voltammetric detection of telomerase at the single-cell level. <i>Biosensors and Bioelectronics</i> , 2018, 122, 51-57.	5.3	56
52	Recent advances in biosensors for in vitro detection and in vivo imaging of DNA methylation. <i>Biosensors and Bioelectronics</i> , 2021, 171, 112712.	5.3	56
53	A single quantum dot-based nanosensor for the signal-on detection of DNA methyltransferase. <i>Chemical Communications</i> , 2017, 53, 6868-6871.	2.2	51
54	Quantifying RNA-Peptide Interaction by Single-quantum Dot-Based Nanosensor: An Approach for Drug Screening. <i>Analytical Chemistry</i> , 2007, 79, 7775-7781.	3.2	50

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55	Multiplex detection of histone-modifying enzymes by total internal reflection fluorescence-based single-molecule detection. <i>Chemical Communications</i> , 2016, 52, 1218-1221.	2.2	50
56	Microfluidic Control of Fluorescence Resonance Energy Transfer: Breaking the FRET Limit. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3482-3485.	7.2	49
57	Single-ribonucleotide repair-mediated ligation-dependent cycling signal amplification for sensitive and specific detection of DNA methyltransferase. <i>Chemical Science</i> , 2018, 9, 6053-6061.	3.7	49
58	Highly sensitive detection of telomerase using a telomere-triggered isothermal exponential amplification-based DNAzyme biosensor. <i>Chemical Communications</i> , 2014, 50, 1909.	2.2	48
59	Nucleic Acid Amplification-Free Bioluminescent Detection of MicroRNAs with High Sensitivity and Accuracy Based on Controlled Target Degradation. <i>Analytical Chemistry</i> , 2017, 89, 7077-7083.	3.2	48
60	Single quantum dot-based nanosensor for rapid and sensitive detection of terminal deoxynucleotidyl transferase. <i>Chemical Communications</i> , 2017, 53, 11016-11019.	2.2	46
61	Single Quantum Dot-Based Nanosensor for Sensitive Detection of O-GlcNAc Transferase Activity. <i>Analytical Chemistry</i> , 2017, 89, 12992-12999.	3.2	46
62	A quantum dot-based microRNA nanosensor for point mutation assays. <i>Chemical Communications</i> , 2014, 50, 7160.	2.2	45
63	Label-Free Sensitive Detection of DNA Methyltransferase by Target-Induced Hyperbranched Amplification with Zero Background Signal. <i>Analytical Chemistry</i> , 2017, 89, 12408-12415.	3.2	45
64	Comparative quantification of nucleic acids using single-molecule detection and molecular beacons. <i>Analyst, The</i> , 2005, 130, 483.	1.7	44
65	A Label-Free Bioluminescent Sensor for Real-Time Monitoring Polynucleotide Kinase Activity. <i>Analytical Chemistry</i> , 2014, 86, 8481-8488.	3.2	44
66	Homogeneously Sensitive Detection of Multiple DNA Glycosylases with Intrinsically Fluorescent Nucleotides. <i>Analytical Chemistry</i> , 2017, 89, 7684-7692.	3.2	44
67	A simple "mix-and-detect" method for the sensitive detection of telomerase from cancer cells under absolutely isothermal conditions. <i>Chemical Communications</i> , 2018, 54, 2483-2486.	2.2	41
68	A single quantum dot-based nanosensor with multilayer of multiple acceptors for ultrasensitive detection of human alkyladenine DNA glycosylase. <i>Chemical Science</i> , 2019, 10, 8675-8684.	3.7	41
69	Rolling circle amplification-driven encoding of different fluorescent molecules for simultaneous detection of multiple DNA repair enzymes at the single-molecule level. <i>Chemical Science</i> , 2020, 11, 5724-5734.	3.7	41
70	Identification of Specific 6-Methyladenosine RNA Demethylase FTO Inhibitors by Single-Quantum-Dot-Based FRET Nanosensors. <i>Analytical Chemistry</i> , 2020, 92, 13936-13944.	3.2	39
71	Homogenous rapid detection of nucleic acids using two-color quantum dots. <i>Analyst, The</i> , 2006, 131, 484.	1.7	38
72	Single Quantum Dot Based Nanosensor for Renin Assay. <i>Analytical Chemistry</i> , 2012, 84, 8846-8852.	3.2	38

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73	Sensitive detection of methylated DNA using the short linear quencher-fluorophore probe and two-stage isothermal amplification assay. <i>Biosensors and Bioelectronics</i> , 2013, 49, 170-175.	5.3	38
74	Sensitive detection of polynucleotide kinase using rolling circle amplification-induced chemiluminescence. <i>Chemical Communications</i> , 2014, 50, 4733.	2.2	37
75	Advances in the integration of quantum dots with various nanomaterials for biomedical and environmental applications. <i>Analyst</i> , 2018, 143, 2469-2478.	1.7	37
76	Label-Free and Immobilization-Free Electrochemical Magnetobiosensor for Sensitive Detection of 5-Hydroxymethylcytosine in Genomic DNA. <i>Analytical Chemistry</i> , 2019, 91, 1232-1236.	3.2	37
77	Improved Sensitivity for the Electrochemical Biosensor with an Adjunct Probe. <i>Analytical Chemistry</i> , 2010, 82, 9500-9505.	3.2	36
78	Simple and Accurate Quantification of Quantum Yield at the Single-Molecule/Particle Level. <i>Analytical Chemistry</i> , 2013, 85, 2000-2004.	3.2	36
79	A Host-Guest Interaction-Based and Metal-Organic Gel-Based Biosensor with Aggregation-Induced Electrochemiluminescence Enhancement for Methyltransferase Assay. <i>Analytical Chemistry</i> , 2021, 93, 2974-2981.	3.2	35
80	Advances in quantum dot-based biosensors for DNA-modifying enzymes assay. <i>Coordination Chemistry Reviews</i> , 2022, 469, 214674.	9.5	35
81	Simple and Accurate Quantification of Quantum Dots via Single-Particle Counting. <i>Journal of the American Chemical Society</i> , 2008, 130, 3750-3751.	6.6	33
82	Ligase amplification reaction-catalyzed assembly of a single quantum dot-based nanosensor for sensitive detection of alkaline phosphatase. <i>Chemical Communications</i> , 2019, 55, 8963-8966.	2.2	33
83	Controllable fabrication of bio-bar codes for dendritically amplified sensing of human T-lymptropic viruses. <i>Chemical Science</i> , 2018, 9, 4942-4949.	3.7	32
84	A controlled T7 transcription-driven symmetric amplification cascade machinery for single-molecule detection of multiple repair glycosylases. <i>Chemical Science</i> , 2021, 12, 5544-5554.	3.7	32
85	Sensitive detection of DNA methyltransferase activity by transcription-mediated duplex-specific nuclease-assisted cyclic signal amplification. <i>Chemical Communications</i> , 2015, 51, 13968-13971.	2.2	30
86	Integration of nanomaterials with nucleic acid amplification approaches for biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 129, 115959.	5.8	30
87	Controllable Mismatched Ligation for Bioluminescence Screening of Known and Unknown Mutations. <i>Analytical Chemistry</i> , 2016, 88, 2431-2439.	3.2	29
88	Development of a Single Quantum Dot-Mediated FRET Nanosensor for Sensitive Detection of Single-Nucleotide Polymorphism in Cancer Cells. <i>Analytical Chemistry</i> , 2021, 93, 14568-14576.	3.2	29
89	Biosensors for epigenetic biomarkers detection: A review. <i>Biosensors and Bioelectronics</i> , 2019, 144, 111695.	5.3	28
90	In-situ synthesis of covalent organic polymer thin film integrates with palladium nanoparticles for the construction of a cathodic photoelectrochemical cytosensor. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112545.	5.3	28

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91	Sensitive Detection of Transcription Factor in Nuclear Extracts by Target-Actuated Isothermal Amplification-Mediated Fluorescence Enhancement. <i>Analytical Chemistry</i> , 2017, 89, 10439-10445.	3.2	27
92	Construction of a Universal and Label-Free Chemiluminescent Sensor for Accurate Quantification of Both Bacteria and Human Methyltransferases. <i>Analytical Chemistry</i> , 2020, 92, 13573-13580.	3.2	27
93	A copper-free and enzyme-free click chemistry-mediated single quantum dot nanosensor for accurate detection of microRNAs in cancer cells and tissues. <i>Chemical Science</i> , 2021, 12, 10426-10435.	3.7	27
94	Simultaneous Enzyme-Free Detection of Multiple Long Noncoding RNAs in Cancer Cells at Single-Molecule/Particle Level. <i>Nano Letters</i> , 2021, 21, 4193-4201.	4.5	27
95	Label-Free and Homogenous Detection of Caspase-3-Like Proteases by Disrupting Homodimerization-Directed Bipartite Tetracysteine Display. <i>Analytical Chemistry</i> , 2017, 89, 4055-4061.	3.2	26
96	Label-free and ultrasensitive detection of polynucleotide kinase activity at the single-cell level. <i>Chemical Communications</i> , 2018, 54, 1583-1586.	2.2	26
97	Construction of a Dye-Sensitized and Gold Plasmon-Enhanced Cathodic Photoelectrochemical Biosensor for Methyltransferase Activity Assay. <i>Analytical Chemistry</i> , 2021, 93, 10310-10316.	3.2	26
98	Histone modifying enzymes: novel disease biomarkers and assay development. <i>Expert Review of Molecular Diagnostics</i> , 2016, 16, 297-306.	1.5	25
99	Cyclic enzymatic repairing-mediated dual-signal amplification for real-time monitoring of thymine DNA glycosylase. <i>Chemical Communications</i> , 2017, 53, 3878-3881.	2.2	25
100	Catalytic hairpin assembly-based electrochemical biosensor with tandem signal amplification for sensitive microRNA assay. <i>Chemical Communications</i> , 2020, 56, 10191-10194.	2.2	25
101	Cytosine-5 methylation-directed construction of a Au nanoparticle-based nanosensor for simultaneous detection of multiple DNA methyltransferases at the single-molecule level. <i>Chemical Science</i> , 2020, 11, 9675-9684.	3.7	25
102	Development of a CRISPR-Cas-Based Biosensor for Rapid and Sensitive Detection of 8-Oxoguanine DNA Glycosylase. <i>Analytical Chemistry</i> , 2022, 94, 2119-2125.	3.2	25
103	A sensitive ratiometric electrochemical biosensor based on DNA four-way junction formation and enzyme-assisted recycling amplification. <i>Analyst</i> , The, 2017, 142, 1562-1568.	1.7	24
104	Sensitive and label-free discrimination of 5-hydroxymethylcytosine and 5-methylcytosine in DNA by ligation-mediated rolling circle amplification. <i>Chemical Communications</i> , 2018, 54, 8602-8605.	2.2	24
105	Substrate-free and label-free electrocatalysis-assisted biosensor for sensitive detection of microRNA in lung cancer cells. <i>Chemical Communications</i> , 2019, 55, 1172-1175.	2.2	24
106	Construction of a Quencher-Free Cascade Amplification System for Highly Specific and Sensitive Detection of Serum Circulating miRNAs. <i>Analytical Chemistry</i> , 2020, 92, 8546-8552.	3.2	24
107	Simple Mix-and-Read Assay with Multiple Cyclic Enzymatic Repairing Amplification for Rapid and Sensitive Detection of DNA Glycosylase. <i>Analytical Chemistry</i> , 2021, 93, 6913-6918.	3.2	24
108	Multicolor fluorescence encoding of different microRNAs in lung cancer tissues at the single-molecule level. <i>Chemical Science</i> , 2021, 12, 12407-12418.	3.7	24



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109	Peptide-templated gold nanoparticle nanosensor for simultaneous detection of multiple posttranslational modification enzymes. <i>Chemical Communications</i> , 2020, 56, 213-216.	2.2	23
110	SiRNA-directed self-assembled quantum dot biosensor for simultaneous detection of multiple microRNAs at the single-particle level. <i>Biosensors and Bioelectronics</i> , 2020, 157, 112177.	5.3	23
111	Bipolar Aggregation-Induced Electrochemiluminescence of Thiophene-Fused Conjugated Microporous Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 28782-28789.	4.0	23
112	Construction of a dual-functional dumbbell probe-based fluorescent biosensor for cascade amplification detection of miRNAs in lung cancer cells and tissues. <i>Chemical Communications</i> , 2022, 58, 5538-5541.	2.2	23
113	A triple-amplification strategy for sensitive detection of telomerase at the single-cell level. <i>Chemical Communications</i> , 2018, 54, 9317-9320.	2.2	22
114	Development of Oxidation Damage Base-Based Fluorescent Probe for Direct Detection of DNA Methylation. <i>Analytical Chemistry</i> , 2020, 92, 10223-10227.	3.2	22
115	Construction of a Structure-Switchable Toehold Dumbbell Probe for Sensitive and Label-Free Measurement of MicroRNA in Cancer Cells and Tissues. <i>Analytical Chemistry</i> , 2022, 94, 1882-1889.	3.2	22
116	Bifunctional nanoparticles with superparamagnetic and luminescence properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 4765.	6.7	21
117	A target-triggered exponential amplification-based DNAzyme biosensor for ultrasensitive detection of folate receptors. <i>Chemical Communications</i> , 2014, 50, 15393-15396.	2.2	21
118	Integration of single-molecule detection with magnetic separation for multiplexed detection of DNA glycosylases. <i>Chemical Communications</i> , 2018, 54, 5839-5842.	2.2	21
119	Single-molecule fluorescence resonance energy transfer and its biomedical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 122, 115753.	5.8	21
120	Construction of a self-directed replication system for label-free and real-time sensing of repair glycosylases with zero background. <i>Chemical Science</i> , 2020, 11, 587-595.	3.7	21
121	Nanomaterial-based biosensors for DNA methyltransferase assay. <i>Journal of Materials Chemistry B</i> , 2020, 8, 3488-3501.	2.9	21
122	Label-Free and Template-Free Chemiluminescent Biosensor for Sensitive Detection of 5-Hydroxymethylcytosine in Genomic DNA. <i>Analytical Chemistry</i> , 2021, 93, 1939-1943.	3.2	20
123	3'-Terminal Repair-Powered Dendritic Nanoassembly of Polyadenine Molecular Beacons for One-Step Quantification of Alkaline Phosphatase in Human Serum. <i>Analytical Chemistry</i> , 2021, 93, 10704-10711.	3.2	20
124	Simultaneous Measurement of SUMOylation using SNAP/CLIP-Tag-Mediated Translation at the Single-Molecule Level. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 691-694.	7.2	19
125	Recent advances in transcription factor assays in vitro. <i>Chemical Communications</i> , 2016, 52, 4739-4748.	2.2	19
126	Advances in single-molecule fluorescent nanosensors. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021, 13, e1716.	3.3	19



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127	Highly sensitive detection of epidermal growth factor receptor in lung cancer cells by aptamer-based target-/probe-mediated cyclic signal amplification. <i>Chemical Communications</i> , 2017, 53, 11496-11499.	2.2	18
128	Label-free and high-throughput bioluminescence detection of uracil-DNA glycosylase in cancer cells through tricyclic cascade signal amplification. <i>Chemical Communications</i> , 2018, 54, 6991-6994.	2.2	18
129	Single-color multiplexing by the integration of high-resolution melting pattern recognition with loop-mediated isothermal amplification. <i>Chemical Communications</i> , 2019, 55, 2457-2460.	2.2	18
130	Construction of a sensitive protease sensor with DNA-peptide conjugates for single-molecule detection of multiple matrix metalloproteinases. <i>Biosensors and Bioelectronics</i> , 2020, 169, 112647.	5.3	18
131	Aptamer-mediated rolling circle amplification for label-free and sensitive detection of histone acetyltransferase activity. <i>Chemical Communications</i> , 2021, 57, 2041-2044.	2.2	18
132	Nucleic acid amplification-integrated single-molecule fluorescence imaging for <i>in vitro</i> and <i>in vivo</i> biosensing. <i>Chemical Communications</i> , 2021, 57, 13415-13428.	2.2	18
133	Primer dephosphorylation-initiated circular exponential amplification for ultrasensitive detection of alkaline phosphatase. <i>Analyst</i> , 2018, 143, 4606-4613.	1.7	17
134	Target-initiated synthesis of fluorescent copper nanoparticles for the sensitive and label-free detection of bleomycin. <i>Nanoscale</i> , 2018, 10, 11134-11142.	2.8	17
135	Ultrasensitive detection of long non-coding RNAs based on duplex-specific nuclease-actuated cyclic enzymatic repairing-mediated signal amplification. <i>Chemical Communications</i> , 2019, 55, 6827-6830.	2.2	17
136	Cooperative In Situ Assembly of G-Quadruplex DNAzyme Nanowires for One-Step Sensing of CpG Methylation in Human Genomes. <i>Nano Letters</i> , 2022, 22, 347-354.	4.5	17
137	Transition-Metal-Complex-Directed Synthesis of Hybrid Iodoargentates with Single-Crystal to Single-Crystal Structural Transformation and Photocatalytic Properties. <i>Inorganic Chemistry</i> , 2020, 59, 13962-13971.	1.9	16
138	Integration of Enzymatic Labeling with Single-Molecule Detection for Sensitive Quantification of Diverse DNA Damages. <i>Analytical Chemistry</i> , 2020, 92, 4700-4706.	3.2	16
139	Integration of exonuclease III-powered three-dimensional DNA walker with single-molecule detection for multiple initiator caspases assay. <i>Chemical Science</i> , 2021, 12, 15645-15654.	3.7	16
140	Construction of an APE1-Mediated Cascade Signal Amplification Platform for Homogeneously Sensitive and Rapid Measurement of DNA Methyltransferase in <i>Escherichia coli</i> Cells. <i>Analytical Chemistry</i> , 2022, 94, 5980-5986.	3.2	16
141	Development of fluorescent methods for DNA methyltransferase assay. <i>Methods and Applications in Fluorescence</i> , 2017, 5, 012002.	1.1	15
142	Recent advances in histone modification and histone modifying enzyme assays. <i>Expert Review of Molecular Diagnostics</i> , 2019, 19, 27-36.	1.5	15
143	5-Hydroxymethylcytosine Glucosylation-Triggered Helicase-Dependent Amplification-Based Fluorescent Biosensor for Sensitive Detection of $\beta$ -Glucosyltransferase with Zero Background Signal. <i>Analytical Chemistry</i> , 2020, 92, 16307-16313.	3.2	15
144	Combination of bidirectional strand displacement amplification with single-molecule detection for multiplexed DNA glycosylases assay. <i>Talanta</i> , 2021, 235, 122805.	2.9	15

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145	Integration of single-molecule detection with endonuclease IV-assisted signal amplification for sensitive DNA methylation assay. <i>Chemical Communications</i> , 2021, 57, 2073-2076.	2.2	15
146	Self-Assembly of Superquenched Gold Nanoparticle Nanosensors for Lighting up BACE-1 in Live Cells. <i>Analytical Chemistry</i> , 2021, 93, 15124-15132.	3.2	15
147	Single-Molecule Biosensing of Alkaline Phosphatase in Cells and Serum Based on Dephosphorylation-Triggered Catalytic Assembly and Disassembly of the Fluorescent DNA Chain. <i>Analytical Chemistry</i> , 2022, 94, 6004-6010.	3.2	15
148	Catalytic single-molecule Förster resonance energy transfer biosensor for uracil-DNA glycosylase detection and cellular imaging. <i>Biosensors and Bioelectronics</i> , 2022, 213, 114447.	5.3	15
149	Ultrasensitive detection of telomerase activity in lung cancer cells with quencher-free molecular beacon-assisted quadratic signal amplification. <i>Analytica Chimica Acta</i> , 2019, 1053, 122-130.	2.6	14
150	Metabolomic profiling of fatty acid biomarkers for intracerebral hemorrhage stroke. <i>Talanta</i> , 2021, 222, 121679.	2.9	14
151	Multiplex detection of lung cancer cells at the single-molecule level. <i>Chemical Communications</i> , 2014, 50, 13581-13584.	2.2	13
152	Controllable Autocatalytic Cleavage-Mediated Fluorescence Recovery for Homogeneous Sensing of Alkyladenine DNA Glycosylase from Human Cancer Cells. <i>Theranostics</i> , 2019, 9, 4450-4460.	4.6	13
153	Facile synthesis of porous carbon/Ni <sub>1</sub> 2P <sub>5</sub> composites for electrocatalytic hydrogen evolution. <i>New Journal of Chemistry</i> , 2019, 43, 4160-4167.	1.4	13
154	Synthesis of ultrathin porous C <sub>3</sub> N <sub>4</sub> -modified Co <sub>3</sub> O <sub>4</sub> nanosheets for enhanced oxygen evolution reaction. <i>Electrochimica Acta</i> , 2021, 367, 137537.	2.6	13
155	Target-Initiated Cascade Signal Amplification Lights up a G-Quadruplex for a Label-Free Detection of Circular Ribonucleic Acids. <i>Analytical Chemistry</i> , 2022, 94, 9193-9200.	3.2	13
156	Sensitive Detection of Intracellular Sumoylation via SNAP Tag-Mediated Translation and RNA Polymerase-Based Amplification. <i>Analytical Chemistry</i> , 2012, 84, 1229-1234.	3.2	12
157	A single quantum dot-based biosensor for DNA point mutation assay. <i>Analyst</i> , 2015, 140, 5936-5943.	1.7	12
158	Advances in single-particle detection for DNA sensing. <i>Science China Chemistry</i> , 2017, 60, 1285-1292.	4.2	12
159	Visualization and Quantification of Sortase Activity at the Single-Molecule Level via Transpeptidation-Directed Intramolecular Förster Resonance Energy Transfer. <i>Analytical Chemistry</i> , 2018, 90, 13007-13012.	3.2	12
160	Development of a cascade isothermal amplification approach for the sensitive detection of DNA methyltransferase. <i>Journal of Materials Chemistry B</i> , 2019, 7, 157-162.	2.9	12
161	Iron and Iodine Co-doped Triazine-Based Frameworks with Efficient Oxygen Reduction Reaction in Alkaline and Acidic Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11787-11794.	3.2	12
162	Low-background electrochemical biosensor for one-step detection of base excision repair enzyme. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111865.	5.3	12

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163	Label-free and amplified detection of apoptosis-associated caspase activity using branched rolling circle amplification. <i>Chemical Communications</i> , 2020, 56, 5243-5246.	2.2	12
164	Label-free and sensitive detection of RNA demethylase FTO with primer generation rolling circle amplification. <i>Chemical Communications</i> , 2022, 58, 1565-1568.	2.2	12
165	A triple-color fluorescent probe for multiple nuclease assays. <i>Chemical Communications</i> , 2015, 51, 9121-9124.	2.2	11
166	A dual signal amplification-assisted DNAzyme biosensor for ultrasensitive detection of Argonaute 2 activity. <i>Chemical Communications</i> , 2018, 54, 13678-13681.	2.2	11
167	Host-guest recognition coupled with triple signal amplification endows an electrochemiluminescent biosensor with enhanced sensitivity. <i>Chemical Communications</i> , 2020, 56, 2971-2974.	2.2	11
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170	Exonuclease III-assisted multiple cycle amplification for the sensitive detection of DNA with zero background signal. <i>Analyst</i> , 2018, 143, 5461-5466.	1.7	10
171	Analysis of the Isolated and the Clustered DNA Damages by Single-Molecule Counting. <i>Analytical Chemistry</i> , 2019, 91, 10381-10385.	3.2	10
172	Dephosphorylation-directed tricyclic DNA amplification cascades for sensitive detection of protein tyrosine phosphatase. <i>Chemical Communications</i> , 2020, 56, 11581-11584.	2.2	10
173	Construction of a single quantum dot nanosensor with the capability of sensing methylcytosine sites for sensitive quantification of methyltransferase. <i>Nanoscale</i> , 2020, 12, 4519-4526.	2.8	10
174	Construction of a target-triggered DNAzyme motor for electrochemical detection of multiple DNA glycosylases. <i>Sensors and Actuators B: Chemical</i> , 2022, 361, 131726.	4.0	10
175	A universal sensing platform based on the repair ligation-mediated light-producing DNA machine. <i>Chemical Communications</i> , 2015, 51, 5652-5655.	2.2	9
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177	A trifunctional split dumbbell probe coupled with ligation-triggered isothermal rolling circle amplification for label-free and sensitive detection of nicotinamide adenine dinucleotide. <i>Talanta</i> , 2021, 224, 121962.	2.9	9
178	Label-free detection of LncRNA in cancer cells with human telomere G-quadruplex DNA-thioflavin T binding-induced fluorescence. <i>Sensors and Actuators B: Chemical</i> , 2022, 358, 131521.	4.0	9
179	Label-free and homogeneous detection of flap endonuclease 1 by ligation-promoted hyperbranched rolling circle amplification platform. <i>Talanta</i> , 2022, 243, 123342.	2.9	9
180	A simple and isothermal ligase-based amplification approach based on a ligation-activated cleavage reaction. <i>Chemical Communications</i> , 2018, 54, 12638-12641.	2.2	8

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181	A dumbbell probe-based dual signal amplification strategy for sensitive detection of multiple DNA methyltransferases. <i>Chemical Communications</i> , 2020, 56, 13627-13630.	2.2	8
182	(Plasmonic gold core)@(ultrathin ruthenium shell) nanostructures as antenna-reactor photocatalysts toward nitrogen photofixation. <i>Chemical Communications</i> , 2022, 58, 1013-1016.	2.2	8
183	A simple and rapid mix-and-read assay for sensitive detection of O <sup>6</sup> -methylguanine DNA methyltransferase. <i>Chemical Communications</i> , 2022, 58, 8662-8665.	2.2	8
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186	Single-molecule counting of oxidative DNA damage in telomeres from cancer cells. <i>Chemical Communications</i> , 2019, 55, 7627-7630.	2.2	7
187	A multifunctional DNA nanostructure based on multicolor FRET for nuclease activity assay. <i>Analyst</i> , 2020, 145, 6054-6060.	1.7	7
188	Integration of ultra-high-pressure liquid chromatography-tandem mass spectrometry with machine learning for identifying fatty acid metabolite biomarkers of ischemic stroke. <i>Chemical Communications</i> , 2020, 56, 6656-6659.	2.2	7
189	Development of a bidirectional isothermal amplification strategy for the sensitive detection of transcription factors in cancer cells. <i>Chemical Communications</i> , 2020, 56, 8952-8955.	2.2	7
190	Fano-like chiroptical response in plasmonic heterodimer nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3604-3610.	1.3	7
191	A single quantum dot-based fluorescence resonance energy transfer biosensor for antibody-free detection of ten-eleven translocation 1. <i>Chemical Communications</i> , 2021, 57, 3543-3546.	2.2	7
192	Zirconium ion-mediated assembly of a single quantum dot-based nanosensor for kinase assay. <i>Chemical Communications</i> , 2021, 57, 6376-6379.	2.2	7
193	Mismatched fluorescent probes with an enhanced strand displacement reaction rate for intracellular long noncoding RNA imaging. <i>Chemical Communications</i> , 2022, 58, 1760-1763.	2.2	7
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195	A universal DNAzyme-based bioluminescent sensor for label-free detection of biomolecules. <i>Analytica Chimica Acta</i> , 2018, 1043, 81-88.	2.6	6
196	Transpeptidation-directed intramolecular bipartite tetracysteine display for sortase activity assay. <i>Chemical Communications</i> , 2018, 54, 8116-8119.	2.2	6
197	Structurally Defined Ru(II) Metallointercalators for Real-Time Monitoring of DNA Amplification Reactions. <i>Analytical Chemistry</i> , 2019, 91, 8777-8782.	3.2	6
198	Metal-Free B, N Co-Doped Hierarchical Porous Carbon Electrocatalyst with an Excellent O <sub>2</sub> Reduction Performance. <i>ChemistryOpen</i> , 2021, 10, 713-719.	0.9	6

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199	Construction of a damage site-specific fluorescent biosensor for single-molecule detection of DNA damage. <i>Talanta</i> , 2021, 235, 122809.	2.9	6
200	Construction of a gold nanoparticle-based single-molecule biosensor for simple and sensitive detection of Argonaute 2 activity. <i>Journal of Materials Chemistry B</i> , 2022, 10, 5594-5601.	2.9	6
201	Deacetylation-activated construction of single quantum dot-based nanosensor for sirtuin 1 assay. <i>Talanta</i> , 2021, 224, 121918.	2.9	5
202	Discovery of a New CDK4/6 and PI3K/AKT Multiple Kinase Inhibitor Aminoquinol for the Treatment of Hepatocellular Carcinoma. <i>Frontiers in Pharmacology</i> , 2021, 12, 691769.	1.6	5
203	Janus silver/ternary silver halide nanostructures as plasmonic photocatalysts boost the conversion of CO <sub>2</sub> to acetaldehyde. <i>Nanoscale</i> , 2021, 13, 20289-20298.	2.8	5
204	Enzymatic DNA repair cascade-driven fluorophore encoding for sensitively sensing telomerase activity in cancer cells. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131603.	4.0	5
205	Characterization of the effect of physiological cations on quantum dots by using single-particle detection. <i>Analyst</i> , 2010, 135, 2355.	1.7	4
206	Integration of a peptide-DNA conjugate with multiple cyclic signal amplification for the ultrasensitive detection of cathepsin B activity. <i>Chemical Communications</i> , 2020, 56, 2119-2122.	2.2	4
207	Development of a single quantum dot-mediated FRET biosensor for amplification-free detection of ten-eleven translocation 2. <i>Talanta</i> , 2022, 239, 123135.	2.9	4
208	Mechanistic insight into photocrosslinking reaction between triplet state 4-thiopyrimidine and thymine. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21305-21316.	1.3	3
209	Development of a phos-tag-based fluorescent biosensor for sensitive detection of protein kinase in cancer cells. <i>Journal of Materials Chemistry B</i> , 2022, 10, 3260-3267.	2.9	3
210	Flower-like Ag <sub>2</sub> WO <sub>4</sub> /CeO <sub>2</sub> heterojunctions with oxygen vacancies and expedited charge carrier separation boost the photocatalytic degradation of dyes and drugs. <i>Dalton Transactions</i> , 2022, 51, 10179-10185.	1.6	3
211	Advances in Detection of Epigenetic Modification—5-Hydroxymethylcytosine. <i>Acta Chimica Sinica</i> , 2021, 79, 614.	0.5	2
212	Simultaneous single-molecule detection of the acetyltransferase and crotonyltransferase activities of histone acetylation writer p300. <i>Chemical Communications</i> , 2021, 57, 11709-11712.	2.2	2
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214	Bsu polymerase-mediated fluorescence coding for rapid and sensitive detection of 8-oxo-7,8-dihydroguanine in telomeres of cancer cells. <i>Talanta</i> , 2022, 243, 123340.	2.9	1
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