

Chaoyong Yang

List of Publications by Year in descending order

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297
papers

20,786
citations

8181

76
h-index

12946

131
g-index

316
all docs

316
docs citations

316
times ranked

18891
citing authors

#	ARTICLE	IF	CITATIONS
1	Aptamers evolved from live cells as effective molecular probes for cancer study. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11838-11843.	7.1	1,344
2	Catalytic performance of Pt nanoparticles on reduced graphene oxide for methanol electro-oxidation. Carbon, 2010, 48, 1124-1130.	10.3	898
3	Molecular Engineering of DNA: Molecular Beacons. Angewandte Chemie - International Edition, 2009, 48, 856-870.	13.8	581
4	Pyrene-Excimer Probes Based on the Hybridization Chain Reaction for the Detection of Nucleic Acids in Complex Biological Fluids. Angewandte Chemie - International Edition, 2011, 50, 401-404.	13.8	486
5	Optimization of Dye-Doped Silica Nanoparticles Prepared Using a Reverse Microemulsion Method. Langmuir, 2004, 20, 8336-8342.	3.5	471
6	Selection of DNA Aptamers against Epithelial Cell Adhesion Molecule for Cancer Cell Imaging and Circulating Tumor Cell Capture. Analytical Chemistry, 2013, 85, 4141-4149.	6.5	399
7	Label-Free Surface-Enhanced Raman Spectroscopy Detection of DNA with Single-Base Sensitivity. Journal of the American Chemical Society, 2015, 137, 5149-5154.	13.7	360
8	Light-switching excimer probes for rapid protein monitoring in complex biological fluids. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17278-17283.	7.1	334
9	An Aptamer Cross-Linked Hydrogel as a Colorimetric Platform for Visual Detection. Angewandte Chemie - International Edition, 2010, 49, 1052-1056.	13.8	328
10	Dual-Luminophore-Doped Silica Nanoparticles for Multiplexed Signaling. Nano Letters, 2005, 5, 37-43.	9.1	311
11	Target-Responsive "Sweet" Hydrogel with Glucometer Readout for Portable and Quantitative Detection of Non-Glucose Targets. Journal of the American Chemical Society, 2013, 135, 3748-3751.	13.7	303
12	Discovery of Aptamers Targeting the Receptor-Binding Domain of the SARS-CoV-2 Spike Glycoprotein. Analytical Chemistry, 2020, 92, 9895-9900.	6.5	296
13	Aptamer-Based Detection of Circulating Targets for Precision Medicine. Chemical Reviews, 2021, 121, 12035-12105.	47.7	294
14	Pyrene Excimer Signaling Molecular Beacons for Probing Nucleic Acids. Journal of the American Chemical Society, 2008, 130, 336-342.	13.7	289
15	Au@Pt Nanoparticle Encapsulated Target-Responsive Hydrogel with Volumetric Bar-Chart Chip Readout for Quantitative Point-of-Care Testing. Angewandte Chemie - International Edition, 2014, 53, 12503-12507.	13.8	205
16	Locked Nucleic Acid Molecular Beacons. Journal of the American Chemical Society, 2005, 127, 15664-15665.	13.7	198
17	High-Throughput Single Copy DNA Amplification and Cell Analysis in Engineered Nanoliter Droplets. Analytical Chemistry, 2008, 80, 3522-3529.	6.5	196
18	Molecular aptamers for drug delivery. Trends in Biotechnology, 2011, 29, 634-640.	9.3	190

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19	Graphene oxide-protected DNA probes for multiplex microRNA analysis in complex biological samples based on a cyclic enzymatic amplification method. <i>Chemical Communications</i> , 2012, 48, 194-196.	4.1	186
20	A Multifunctional Nanomicelle for Real-time Targeted Imaging and Precise Near-Infrared Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9544-9549.	13.8	177
21	Twist2 contributes to breast cancer progression by promoting an epithelial-mesenchymal transition and cancer stem-like cell self-renewal. <i>Oncogene</i> , 2011, 30, 4707-4720.	5.9	175
22	Microfluidic Distance Readout Sweet Hydrogel Integrated Paper-Based Analytical Device (1/4DiSH-PAD) for Visual Quantitative Point-of-Care Testing. <i>Analytical Chemistry</i> , 2016, 88, 2345-2352.	6.5	175
23	Bioinspired Engineering of a Multivalent Aptamer-Functionalized Nanointerface to Enhance the Capture and Release of Circulating Tumor Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2236-2240.	13.8	175
24	scp-DNA Molecular Beacon: A Safe, Stable, and Accurate Intracellular Nano-thermometer for Temperature Sensing in Living Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 18908-18911.	13.7	173
25	Homogeneous, Low-volume, Efficient, and Sensitive Quantitation of Circulating Exosomal PD-L1 for Cancer Diagnosis and Immunotherapy Response Prediction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4800-4805.	13.8	159
26	Hydrogel Droplet Microfluidics for High-Throughput Single Molecule/Cell Analysis. <i>Accounts of Chemical Research</i> , 2017, 50, 22-31.	15.6	158
27	Target-Responsive DNzyme Cross-Linked Hydrogel for Visual Quantitative Detection of Lead. <i>Analytical Chemistry</i> , 2014, 86, 11434-11439.	6.5	155
28	Molecular Assembly of Superquenchers in Signaling Molecular Interactions. <i>Journal of the American Chemical Society</i> , 2005, 127, 12772-12773.	13.7	152
29	PMMA/PDMS valves and pumps for disposable microfluidics. <i>Lab on A Chip</i> , 2009, 9, 3088.	6.0	150
30	Enrichment and single-cell analysis of circulating tumor cells. <i>Chemical Science</i> , 2017, 8, 1736-1751.	7.4	148
31	Translating Molecular Recognition into a Pressure Signal to enable Rapid, Sensitive, and Portable Biomedical Analysis. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10448-10453.	13.8	147
32	Aptamer Blocking Strategy Inhibits SARS-CoV-2 Virus Infection. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10266-10272.	13.8	144
33	A Controllable Aptamer-Based Self-Assembled DNA Dendrimer for High Affinity Targeting, Bioimaging and Drug Delivery. <i>Scientific Reports</i> , 2015, 5, 10099.	3.3	143
34	Distance-based microfluidic quantitative detection methods for point-of-care testing. <i>Lab on A Chip</i> , 2016, 16, 1139-1151.	6.0	143
35	Bioinspired Engineering of Multivalent Aptamer-Functionalized Nanointerface to Enhance Capture and Release of Circulating Tumor Cells. <i>Angewandte Chemie</i> , 2018, 131, 2258.	2.0	141
36	DNA Aptamer-Mediated Cell Targeting. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1472-1476.	13.8	137

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37	Design and Synthesis of Target-Responsive Aptamer-Cross-linked Hydrogel for Visual Quantitative Detection of Ochratoxin A. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6982-6990.	8.0	137
38	Sonochemical synthesis of highly fluorescent glutathione-stabilized Ag nanoclusters and S2â€² sensing. <i>Nanoscale</i> , 2012, 4, 4103.	5.6	134
39	Isolation, Detection, and Antigenâ€Based Profiling of Circulating Tumor Cells Using a Sizeâ€Dictated Immunocapture Chip. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10681-10685.	13.8	132
40	Target-Responsive DNA Hydrogel Mediated â€Stop-Flowâ€Microfluidic Paper-Based Analytic Device for Rapid, Portable and Visual Detection of Multiple Targets. <i>Analytical Chemistry</i> , 2015, 87, 4275-4282.	6.5	131
41	Facile synthesis of red-emitting lysozyme-stabilized Ag nanoclusters. <i>Nanoscale</i> , 2012, 4, 5312.	5.6	129
42	MicroRNA-33b Inhibits Breast Cancer Metastasis by Targeting HMGA2, SALL4 and Twist1. <i>Scientific Reports</i> , 2015, 5, 9995.	3.3	128
43	DNAzyme crosslinked hydrogel: a new platform for visual detection of metal ions. <i>Chemical Communications</i> , 2011, 47, 9312.	4.1	126
44	Engineering of Switchable Aptamer Micelle Flares for Molecular Imaging in Living Cells. <i>ACS Nano</i> , 2013, 7, 5724-5731.	14.6	124
45	Massively Parallel Single-Molecule and Single-Cell Emulsion Reverse Transcription Polymerase Chain Reaction Using Agarose Droplet Microfluidics. <i>Analytical Chemistry</i> , 2012, 84, 3599-3606.	6.5	123
46	Directional Regulation of Enzyme Pathways through the Control of Substrate Channeling on a DNA Origami Scaffold. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7483-7486.	13.8	122
47	A Surface Energy Transfer Nanoruler for Measuring Binding Site Distances on Live Cell Surfaces. <i>Journal of the American Chemical Society</i> , 2010, 132, 16559-16570.	13.7	119
48	Trends in miniaturized biosensors for point-of-care testing. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 122, 115701.	11.4	119
49	Tracing Tumorâ€Derived Exosomal PDâ€1 by Dualâ€Aptamer Activated Proximityâ€Induced Droplet Digital PCR. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7582-7586.	13.8	117
50	Direct Synthesis of an Oligonucleotideâ€Poly(phenylene ethynylene) Conjugate with a Precise One-to-One Molecular Ratio. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2572-2576.	13.8	114
51	Fluidic Multivalent Membrane Nanointerface Enables Synergetic Enrichment of Circulating Tumor Cells with High Efficiency and Viability. <i>Journal of the American Chemical Society</i> , 2020, 142, 4800-4806.	13.7	114
52	Agarose droplet microfluidics for highly parallel and efficient single molecule emulsion PCR. <i>Lab on A Chip</i> , 2010, 10, 2841.	6.0	111
53	Backbone-modified molecular beacons for highly sensitive and selective detection of microRNAs based on duplex specific nuclease signal amplification. <i>Chemical Communications</i> , 2013, 49, 7243.	4.1	110
54	In Vitro and in Vivo Studies on the Transport of PEGylated Silica Nanoparticles across the Bloodâ€Brain Barrier. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2131-2136.	8.0	109

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55	A Synthetic Light-Driven Substrate Channeling System for Precise Regulation of Enzyme Cascade Activity Based on DNA Origami. <i>Journal of the American Chemical Society</i> , 2018, 140, 8990-8996.	13.7	108
56	Highly Sensitive and Automated Surface Enhanced Raman Scattering-based Immunoassay for H5N1 Detection with Digital Microfluidics. <i>Analytical Chemistry</i> , 2018, 90, 5224-5231.	6.5	107
57	Mass Amplifying Probe for Sensitive Fluorescence Anisotropy Detection of Small Molecules in Complex Biological Samples. <i>Analytical Chemistry</i> , 2012, 84, 5535-5541.	6.5	105
58	<i>In Vitro</i> Selection of DNA Aptamers for Metastatic Breast Cancer Cell Recognition and Tissue Imaging. <i>Analytical Chemistry</i> , 2014, 86, 6596-6603.	6.5	102
59	Portable visual quantitative detection of aflatoxin B ₁ using a target-responsive hydrogel and a distance-readout microfluidic chip. <i>Lab on A Chip</i> , 2016, 16, 3097-3104.	6.0	102
60	A microfluidic-integrated lateral flow recombinase polymerase amplification (MI-IF-RPA) assay for rapid COVID-19 detection. <i>Lab on A Chip</i> , 2021, 21, 2019-2026.	6.0	101
61	A Cell-Surface-Anchored Ratiometric Fluorescent Probe for Extracellular pH Sensing. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15329-15334.	8.0	99
62	DNA-directed nanofabrication of high-performance carbon nanotube field-effect transistors. <i>Science</i> , 2020, 368, 878-881.	12.6	99
63	Integration of target responsive hydrogel with cascaded enzymatic reactions and microfluidic paper-based analytic devices (µPADs) for point-of-care testing (POCT). <i>Biosensors and Bioelectronics</i> , 2016, 77, 537-542.	10.1	96
64	Superior structure stability and selectivity of hairpin nucleic acid probes with an L-DNA stem. <i>Nucleic Acids Research</i> , 2007, 35, 7279-7287.	14.5	89
65	Recent Progress in Microfluidics-Based Biosensing. <i>Analytical Chemistry</i> , 2019, 91, 388-404.	6.5	89
66	Molecular signaling of the epithelial to mesenchymal transition in generating and maintaining cancer stem cells. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 2605-2618.	5.4	88
67	A fully integrated distance readout ELISA-Chip for point-of-care testing with sample-in-answer-out capability. <i>Biosensors and Bioelectronics</i> , 2017, 96, 332-338.	10.1	88
68	Integrating Target-Responsive Hydrogel with Pressuremeter Readout Enables Simple, Sensitive, User-Friendly, Quantitative Point-of-Care Testing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22252-22258.	8.0	88
69	Nucleic Acids Analysis. <i>Science China Chemistry</i> , 2021, 64, 171-203.	8.2	88
70	A general excimer signaling approach for aptamer sensors. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2232-2237.	10.1	87
71	Surface-Enhanced Raman Scattering Active Plasmonic Nanoparticles with Ultrasmall Interior Nanogap for Multiplex Quantitative Detection and Cancer Cell Imaging. <i>Analytical Chemistry</i> , 2016, 88, 7828-7836.	6.5	84
72	Design and synthesis of target-responsive hydrogel for portable visual quantitative detection of uranium with a microfluidic distance-based readout device. <i>Biosensors and Bioelectronics</i> , 2016, 85, 496-502.	10.1	83

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73	Self-Assembly of a Bifunctional DNA Carrier for Drug Delivery. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6098-6101.	13.8	82
74	Single-molecule emulsion PCR in microfluidic droplets. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2127-2143.	3.7	81
75	Microfluidic-Based Exosome Analysis for Liquid Biopsy. <i>Small Methods</i> , 2021, 5, e2001131.	8.6	81
76	Microfluidic Single-Cell Omics Analysis. <i>Small</i> , 2020, 16, e1903905.	10.0	80
77	Integrated Distance-Based Origami Paper Analytical Device for One-Step Visualized Analysis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30480-30487.	8.0	79
78	Synthesis and investigation of deoxyribonucleic acid/locked nucleic acid chimeric molecular beacons. <i>Nucleic Acids Research</i> , 2007, 35, 4030-4041.	14.5	77
79	Nucleic Acid Beacons for Long-Term Real-Time Intracellular Monitoring. <i>Analytical Chemistry</i> , 2008, 80, 3025-3028.	6.5	76
80	In Vitro Selection of Highly Efficient G-Quadruplex-Based DNAzymes. <i>Analytical Chemistry</i> , 2012, 84, 8383-8390.	6.5	76
81	A T7 exonuclease-assisted cyclic enzymatic amplification method coupled with rolling circle amplification: a dual-amplification strategy for sensitive and selective microRNA detection. <i>Chemical Communications</i> , 2014, 50, 1576-1578.	4.1	76
82	Platinum nanoflowers supported on graphene oxide nanosheets: their green synthesis, growth mechanism, and advanced electrocatalytic properties for methanol oxidation. <i>Journal of Materials Chemistry</i> , 2012, 22, 11284.	6.7	75
83	DNA Nanolithography Enables a Highly Ordered Recognition Interface in a Microfluidic Chip for the Efficient Capture and Release of Circulating Tumor Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14115-14119.	13.8	74
84	Highly sensitive and quantitative detection of rare pathogens through agarose droplet microfluidic emulsion PCR at the single-cell level. <i>Lab on A Chip</i> , 2012, 12, 3907.	6.0	71
85	ICP-MS-Based Multiplex and Ultrasensitive Assay of Viruses with Lanthanide-Coded Biospecific Tagging and Amplification Strategies. <i>Analytical Chemistry</i> , 2013, 85, 9428-9432.	6.5	71
86	Enzyme-Encapsulated Liposome-Linked Immunosorbent Assay Enabling Sensitive Personal Glucose Meter Readout for Portable Detection of Disease Biomarkers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6890-6897.	8.0	71
87	Metabolic Labeling of Peptidoglycan with NIR-Fluorescent Dye Enables In Vivo Imaging of Gut Microbiota. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2628-2633.	13.8	71
88	Stabilization of ssRNA on Graphene Oxide Surface: An Effective Way to Design Highly Robust RNA Probes. <i>Analytical Chemistry</i> , 2013, 85, 2269-2275.	6.5	70
89	Monoclonal Surface Display SELEX for Simple, Rapid, Efficient, and Cost-Effective Aptamer Enrichment and Identification. <i>Analytical Chemistry</i> , 2014, 86, 5881-5888.	6.5	70
90	Molecular beacons for bioanalytical applications. <i>Analyst</i> , 2005, 130, 1002.	3.5	69

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91	Highly sensitive and selective detection of miRNA: DNase I-assisted target recycling using DNA probes protected by polydopamine nanospheres. <i>Chemical Communications</i> , 2015, 51, 2156-2158.	4.1	69
92	Assessing the viability of transplanted gut microbiota by sequential tagging with D-amino acid-based metabolic probes. <i>Nature Communications</i> , 2019, 10, 1317.	12.8	68
93	Coupling Aptamer-based Protein Tagging with Metabolic Glycan Labeling for In Situ Visualization and Biological Function Study of Exosomal Protein-specific Glycosylation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18111-18115.	13.8	66
94	An electrochemical sensor based on label-free functional allosteric molecular beacons for detection target DNA/miRNA. <i>Biosensors and Bioelectronics</i> , 2013, 41, 783-788.	10.1	65
95	Biostable L-DNAzyme for Sensing of Metal Ions in Biological Systems. <i>Analytical Chemistry</i> , 2016, 88, 1850-1855.	6.5	65
96	Integrated paper-based microfluidic devices for point-of-care testing. <i>Analytical Methods</i> , 2018, 10, 3567-3581.	2.7	65
97	Control of capillary behavior through target-responsive hydrogel permeability alteration for sensitive visual quantitative detection. <i>Nature Communications</i> , 2019, 10, 1036.	12.8	65
98	Highly Parallel Single-Molecule Amplification Approach Based on Agarose Droplet Polymerase Chain Reaction for Efficient and Cost-Effective Aptamer Selection. <i>Analytical Chemistry</i> , 2012, 84, 350-355.	6.5	64
99	A portable visual detection method based on a target-responsive DNA hydrogel and color change of gold nanorods. <i>Chemical Communications</i> , 2017, 53, 6375-6378.	4.1	64
100	Point-of-Care Assay of Telomerase Activity at Single-Cell Level via Gas Pressure Readout. <i>Analytical Chemistry</i> , 2017, 89, 8311-8318.	6.5	63
101	A universal platform for sensitive and selective colorimetric DNA detection based on Exo III assisted signal amplification. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2796-2800.	10.1	61
102	Aptamer-based microfluidics for isolation, release and analysis of circulating tumor cells. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 117, 69-77.	11.4	61
103	Target-responsive DNA hydrogel for non-enzymatic and visual detection of glucose. <i>Analyst, The</i> , 2018, 143, 1679-1684.	3.5	58
104	Selection of DNA aptamers against epidermal growth factor receptor with high affinity and specificity. <i>Biochemical and Biophysical Research Communications</i> , 2014, 453, 681-685.	2.1	57
105	Ultrasensitive and Facile Detection of MicroRNA via a Portable Pressure Meter. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12526-12533.	8.0	57
106	Spherical Neutralizing Aptamer Inhibits SARS-CoV-2 Infection and Suppresses Mutational Escape. <i>Journal of the American Chemical Society</i> , 2021, 143, 21541-21548.	13.7	56
107	Evolution of DNA Aptamers through in Vitro Metastatic-Cell-Based Systematic Evolution of Ligands by Exponential Enrichment for Metastatic Cancer Recognition and Imaging. <i>Analytical Chemistry</i> , 2015, 87, 4941-4948.	6.5	55
108	A pressure-based bioassay for the rapid, portable and quantitative detection of C-reactive protein. <i>Chemical Communications</i> , 2016, 52, 8452-8454.	4.1	55

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109	Light-Switching Excimer Beacon Assays For Ribonuclease H Kinetic Study. <i>ChemBioChem</i> , 2008, 9, 355-359.	2.6	54
110	Digital-WGS: Automated, highly efficient whole-genome sequencing of single cells by digital microfluidics. <i>Science Advances</i> , 2020, 6, .	10.3	54
111	Selection of DNA Aptamers against Glioblastoma Cells with High Affinity and Specificity. <i>PLoS ONE</i> , 2012, 7, e42731.	2.5	52
112	Recent Progress in Aptamer-Based Functional Probes for Bioanalysis and Biomedicine. <i>Chemistry - A European Journal</i> , 2016, 22, 9886-9900.	3.3	52
113	SuperCT: a supervised-learning framework for enhanced characterization of single-cell transcriptomic profiles. <i>Nucleic Acids Research</i> , 2019, 47, e48-e48.	14.5	52
114	Hybrid Molecular Probe for Nucleic Acid Analysis in Biological Samples. <i>Journal of the American Chemical Society</i> , 2006, 128, 9986-9987.	13.7	51
115	Synthesis of Uniform-Size Hollow Silica Microspheres through Interfacial Polymerization in Monodisperse Water-in-Oil Droplets. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2711-2714.	8.0	50
116	Lateral flow assay with pressure meter readout for rapid point-of-care detection of disease-associated protein. <i>Lab on A Chip</i> , 2018, 18, 965-970.	6.0	50
117	Highly parallel and efficient single cell mRNA sequencing with paired picoliter chambers. <i>Nature Communications</i> , 2020, 11, 2118.	12.8	50
118	A highly parallel microfluidic droplet method enabling single-molecule counting for digital enzyme detection. <i>Biomicrofluidics</i> , 2014, 8, 014110.	2.4	49
119	Simple and Rapid Functionalization of Gold Nanorods with Oligonucleotides Using an mPEG-SH/Tween 20-Assisted Approach. <i>Langmuir</i> , 2015, 31, 7869-7876.	3.5	48
120	Microfluidic-Integrated Multicolor Immunosensor for Visual Detection of HIV-1 p24 Antigen with the Naked Eye. <i>Analytical Chemistry</i> , 2020, 92, 11826-11833.	6.5	48
121	Synergetic Approach for Simple and Rapid Conjugation of Gold Nanoparticles with Oligonucleotides. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16800-16807.	8.0	47
122	Monitoring Nucleic Acids Using Molecular Beacons. <i>Current Pharmaceutical Biotechnology</i> , 2005, 6, 445-452.	1.6	46
123	A cyclic enzymatic amplification method for sensitive and selective detection of nucleic acids. <i>Analyst</i> , 2010, 135, 2069.	3.5	46
124	Identification, Characterization and Application of a G-Quadruplex Structured DNA Aptamer against Cancer Biomarker Protein Anterior Gradient Homolog 2. <i>PLoS ONE</i> , 2012, 7, e46393.	2.5	46
125	A Sequential Multidimensional Analysis Algorithm for Aptamer Identification based on Structure Analysis and Machine Learning. <i>Analytical Chemistry</i> , 2020, 92, 3307-3314.	6.5	45
126	Using DNA Aptamer Probe for Immunostaining of Cancer Frozen Tissues. <i>Analytical Chemistry</i> , 2015, 87, 1919-1924.	6.5	44

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127	Pyrene Excimer Nucleic Acid Probes for Biomolecule Signaling. <i>Journal of Biomedical Nanotechnology</i> , 2009, 5, 495-504.	1.1	42
128	Facile and Rapid Generation of Large-Scale Microcollagen Gel Array for Long-Term Single-Cell 3D Culture and Cell Proliferation Heterogeneity Analysis. <i>Analytical Chemistry</i> , 2014, 86, 2789-2797.	6.5	42
129	Positive carbon dots with dual roles of nanoquencher and reference signal for the ratiometric fluorescence sensing of DNA. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 193-201.	7.8	42
130	Visual Quantitative Detection of Circulating Tumor Cells with Single-Cell Sensitivity Using a Portable Microfluidic Device. <i>Small</i> , 2019, 15, 1804890.	10.0	42
131	Beyond Capture: Circulating Tumor Cell Release and Single-Cell Analysis. <i>Small Methods</i> , 2019, 3, 1800544.	8.6	41
132	Linear molecular beacons for highly sensitive bioanalysis based on cyclic Exo III enzymatic amplification. <i>Biosensors and Bioelectronics</i> , 2011, 27, 119-124.	10.1	40
133	Preparation of Reversible Colorimetric Temperature Nanosensors and Their Application in Quantitative Two-Dimensional Thermo-Imaging. <i>Analytical Chemistry</i> , 2011, 83, 2434-2437.	6.5	40
134	Graphene Oxide Protected Nucleic Acid Probes for Bioanalysis and Biomedicine. <i>Chemistry - A European Journal</i> , 2013, 19, 10442-10451.	3.3	39
135	Label-Free Fluorescence Strategy for Sensitive Detection of Adenosine Triphosphate Using a Loop DNA Probe with Low Background Noise. <i>Analytical Chemistry</i> , 2014, 86, 6758-6762.	6.5	39
136	Preparation and electro-optical properties of polymer dispersed liquid crystal films with relatively low liquid crystal content. <i>Polymers for Advanced Technologies</i> , 2013, 24, 453-459.	3.2	38
137	Staining Traditional Colloidal Gold Test Strips with Pt Nanoshell Enables Quantitative Point-of-Care Testing with Simple and Portable Pressure Meter Readout. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1800-1806.	8.0	38
138	Aptamer-Based Liquid Biopsy. <i>ACS Applied Bio Materials</i> , 2020, 3, 2743-2764.	4.6	38
139	A G-Quadruplex Aptamer Inhibits the Phosphatase Activity of Oncogenic Protein Shp2 in vitro. <i>ChemBioChem</i> , 2011, 12, 424-430.	2.6	37
140	Carbon nanoparticle-protected aptamers for highly sensitive and selective detection of biomolecules based on nuclease-assisted target recycling signal amplification. <i>Chemical Communications</i> , 2014, 50, 7646-7648.	4.1	37
141	Imaging Commensal Microbiota and Pathogenic Bacteria in the Gut. <i>Accounts of Chemical Research</i> , 2021, 54, 2076-2087.	15.6	37
142	Microfluidic approaches to rapid and efficient aptamer selection. <i>Biomicrofluidics</i> , 2014, 8, 041501.	2.4	36
143	Evolution of DNA aptamers for malignant brain tumor gliosarcoma cell recognition and clinical tissue imaging. <i>Biosensors and Bioelectronics</i> , 2016, 80, 1-8.	10.1	36
144	Gas-generating reactions for point-of-care testing. <i>Analyst</i> , 2018, 143, 1294-1304.	3.5	36

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145	Homogeneous, Low-volume, Efficient, and Sensitive Quantitation of Circulating Exosomal PD-L1 for Cancer Diagnosis and Immunotherapy Response Prediction. <i>Angewandte Chemie</i> , 2020, 132, 4830-4835.	2.0	36
146	Backbone modification promotes peroxidase activity of G-quadruplex-based DNAzyme. <i>Chemical Communications</i> , 2012, 48, 8347.	4.1	34
147	Microfluidic fabrication of cholesteric liquid crystal core-shell structures toward magnetically transportable microlasers. <i>Lab on A Chip</i> , 2016, 16, 1206-1213.	6.0	34
148	Microwell Array Method for Rapid Generation of Uniform Agarose Droplets and Beads for Single Molecule Analysis. <i>Analytical Chemistry</i> , 2018, 90, 2570-2577.	6.5	34
149	Molecular Crowding Evolution for Enabling Discovery of Enthalpy-Driven Aptamers for Robust Biomedical Applications. <i>Analytical Chemistry</i> , 2019, 91, 10879-10886.	6.5	34
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