Zhi Zhu

List of Publications by Year in Descending Order

195 papers	11,700 citations	63 h-index	101 g-index
208 ext. papers	13,355 ext. citations	8.4 avg, IF	6.35 L-index

#	Paper	IF	Citations
195	Awake craniotomy for removal of gliomas in eloquent areas: an analysis of 21 cases.. *Brain Research Bulletin*, **2022**, 181, 30-30	3.9	1
194	Antibody-engineered red blood cell interface for high-performance capture and release of circulating tumor cells.. *Bioactive Materials*, **2022**, 11, 32-40	16.7	1
193	Well-Paired-Seq: A Size-Exclusion and Locally Quasi-Static Hydrodynamic Microwell Chip for Single-Cell RNA-Seq.. *Small Methods*, **2022**, e2200341	12.8	1
192	Suppressing high-dimensional crystallographic defects for ultra-scaled DNA arrays.. *Nature Communications*, **2022**, 13, 2707	17.4	1
191	Visualization of PD-L1-Specific Glycosylation on Tissue Sections. *Analytical Chemistry*, **2021**, 93, 15958-15963	7.8	2
190	Interfacing droplet microfluidics with antibody barcodes for multiplexed single-cell protein secretion profiling. *Lab on A Chip*, **2021**, 21, 4823-4830	7.2	2
189	Stimulus-Responsive Microfluidic Interface Enables Efficient Enrichment and Cytogenetic Profiling of Circulating Myeloma Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 14920-14927	9.5	1
188	HUNTER-Chip: Bioinspired Hierarchically Aptamer Structure-Based Circulating Fetal Cell Isolation for Non-Invasive Prenatal Testing. *Analytical Chemistry*, **2021**, 93, 7235-7241	7.8	8
187	In situ Raman enhancement strategy for highly sensitive and quantitative lateral flow assay. *Analytical and Bioanalytical Chemistry*, **2021**, 1	4.4	1
186	Aptamer Generated by Cell-SELEX for Specific Targeting of Human Glioma Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 9306-9315	9.5	10
185	Activation of Aptamers with Gain of Function by Small-Molecule-Clipping of Intramolecular Motifs. *Angewandte Chemie - International Edition*, **2021**, 60, 6021-6028	16.4	2
184	Activation of Aptamers with Gain of Function by Small-Molecule-Clipping of Intramolecular Motifs. *Angewandte Chemie*, **2021**, 133, 6086-6093	3.6	
183	A microfluidic-integrated lateral flow recombinase polymerase amplification (MI-IF-RPA) assay for rapid COVID-19 detection. *Lab on A Chip*, **2021**, 21, 2019-2026	7.2	33
182	Highly paralleled emulsion droplets for efficient isolation, amplification, and screening of cancer biomarker binding phages. *Lab on A Chip*, **2021**, 21, 1175-1184	7.2	2
181	Selection and applications of functional nucleic acids for infectious disease detection and prevention. *Analytical and Bioanalytical Chemistry*, **2021**, 413, 4563-4579	4.4	4
180	Sensitive, Rapid, and Automated Detection of DNA Methylation Based on Digital Microfluidics. *ACS Applied Materials & Interfaces*, **2021**, 13, 8042-8048	9.5	7
179	Tracing Tumor-Derived Exosomal PD-L1 by Dual-Aptamer Activated Proximity-Induced Droplet Digital PCR. *Angewandte Chemie - International Edition*, **2021**, 60, 7582-7586	16.4	35

178	Tracing Tumor-Derived Exosomal PD-L1 by Dual-Aptamer Activated Proximity-Induced Droplet Digital PCR. *Angewandte Chemie*, **2021**, 133, 7660-7664	3.6	1
177	Dispen-Seq: a single-microparticle dispenser based strategy towards flexible cell barcoding for single-cell RNA sequencing. *Science China Chemistry*, **2021**, 64, 650-659	7.9	1
176	Auto-Panning: a highly integrated and automated biopanning platform for peptide screening. *Lab on A Chip*, **2021**, 21, 2702-2710	7.2	2
175	An electrochemical method for a rapid and sensitive immunoassay on digital microfluidics with integrated indium tin oxide electrodes coated on a PET film. *Analyst, The*, **2021**, 146, 4473-4479	5	2
174	Digital-WGS: Automated, highly efficient whole-genome sequencing of single cells by digital microfluidics. *Science Advances*, **2020**, 6,	14.3	15
173	A Highly Sensitive, Accurate, and Automated Single-Cell RNA Sequencing Platform with Digital Microfluidics. *Analytical Chemistry*, **2020**, 92, 8599-8606	7.8	13
172	DNA-directed nanofabrication of high-performance carbon nanotube field-effect transistors. *Science*, **2020**, 368, 878-881	33.3	56
171	Discovery of Aptamers Targeting the Receptor-Binding Domain of the SARS-CoV-2 Spike Glycoprotein. *Analytical Chemistry*, **2020**, 92, 9895-9900	7.8	147
170	Effects of Molecular Crowding on G-Quadruplex-hemin Mediated Peroxidase Activity. *Chemical Research in Chinese Universities*, **2020**, 36, 247-253	2.2	2
169	Auto-affitech: an automated ligand binding affinity evaluation platform using digital microfluidics with a bidirectional magnetic separation method. *Lab on A Chip*, **2020**, 20, 1577-1585	7.2	9
168	Scaling Up DNA Self-Assembly.. *ACS Applied Bio Materials*, **2020**, 3, 2805-2815	4.1	7
167	Homogeneous, Low-volume, Efficient, and Sensitive Quantitation of Circulating Exosomal PD-L1 for Cancer Diagnosis and Immunotherapy Response Prediction. *Angewandte Chemie*, **2020**, 132, 4830-4835	3.6	22
166	Highly parallel and efficient single cell mRNA sequencing with paired picoliter chambers. *Nature Communications*, **2020**, 11, 2118	17.4	19
165	Highly Sensitive Minimal Residual Disease Detection by Biomimetic Multivalent Aptamer Nanoclimber Functionalized Microfluidic Chip. *Small*, **2020**, 16, e2000949	11	12
164	Stimuli-Responsive Microfluidic Interface Enables Highly Efficient Capture and Release of Circulating Fetal Cells for Non-Invasive Prenatal Testing. *Analytical Chemistry*, **2020**, 92, 9281-9286	7.8	6
163	Microfluidic Single-Cell Omics Analysis. *Small*, **2020**, 16, e1903905	11	33
162	Homogeneous, Low-volume, Efficient, and Sensitive Quantitation of Circulating Exosomal PD-L1 for Cancer Diagnosis and Immunotherapy Response Prediction. *Angewandte Chemie - International Edition*, **2020**, 59, 4800-4805	16.4	62
161	A Sequential Multidimensional Analysis Algorithm for Aptamer Identification based on Structure Analysis and Machine Learning. *Analytical Chemistry*, **2020**, 92, 3307-3314	7.8	20

160	Distance-based paper/PMMA integrated ELISA-chip for quantitative detection of immunoglobulin G. *Lab on A Chip*, **2020**, 20, 3625-3632	7.2	10
159	Efficient Isolation and Phenotypic Profiling of Circulating Hepatocellular Carcinoma Cells via a Combinatorial-Antibody-Functionalized Microfluidic Synergetic-Chip. *Analytical Chemistry*, **2020**, 92, 15229-15235	7.8	7
158	Crosstalk-free colloidosomes for high throughput single-molecule protein analysis. *Science China Chemistry*, **2020**, 63, 1507-1514	7.9	4
157	Trends in miniaturized biosensors for point-of-care testing. *TrAC - Trends in Analytical Chemistry*, **2020**, 122, 115701	14.6	58
156	Nucleic Acids Analysis. *Science China Chemistry*, **2020**, 64, 1-33	7.9	33
155	Control of CRISPR-Cas9 with small molecule-activated allosteric aptamer regulating sgRNAs. *Chemical Communications*, **2019**, 55, 12223-12226	5.8	16
154	Centrifugal-Driven Droplet Generation Method with Minimal Waste for Single-Cell Whole Genome Amplification. *Analytical Chemistry*, **2019**, 91, 13611-13619	7.8	13
153	Evolution of Nucleic Acid Aptamers Capable of Specifically Targeting Glioma Stem Cells via Cell-SELEX. *Analytical Chemistry*, **2019**, 91, 8070-8077	7.8	18
152	Catalase-linked immunosorbent pressure assay for portable quantitative analysis. *Analyst, The*, **2019**, 144, 4188-4193	5	2
151	Visual Quantitative Detection of Circulating Tumor Cells with Single-Cell Sensitivity Using a Portable Microfluidic Device. *Small*, **2019**, 15, e1804890	11	28
150	Stable Colloidosomes Formed by Self-Assembly of Colloidal Surfactant for Highly Robust Digital PCR. *Analytical Chemistry*, **2019**, 91, 6003-6011	7.8	13
149	Cancer Diagnostics: Visual Quantitative Detection of Circulating Tumor Cells with Single-Cell Sensitivity Using a Portable Microfluidic Device (Small 14/2019). *Small*, **2019**, 15, 1970075	11	
148	Innentitelbild: Bioinspired Engineering of a Multivalent Aptamer-Functionalized Nanointerface to Enhance the Capture and Release of Circulating Tumor Cells (Angew. Chem. 8/2019). *Angewandte Chemie*, **2019**, 131, 2180-2180	3.6	2
147	Molecular Crowding Evolution for Enabling Discovery of Enthalpy-Driven Aptamers for Robust Biomedical Applications. *Analytical Chemistry*, **2019**, 91, 10879-10886	7.8	19
146	Single cell transcriptomics: moving towards multi-omics. *Analyst, The*, **2019**, 144, 3172-3189	5	25
145	Staining Traditional Colloidal Gold Test Strips with Pt Nanoshell Enables Quantitative Point-of-Care Testing with Simple and Portable Pressure Meter Readout. *ACS Applied Materials & Interfaces*, **2019**, 11, 1800-1806	9.5	26
144	Recent Progress in Microfluidics-Based Biosensing. *Analytical Chemistry*, **2019**, 91, 388-404	7.8	54
143	Bioinspired Engineering of a Multivalent Aptamer-Functionalized Nanointerface to Enhance the Capture and Release of Circulating Tumor Cells. *Angewandte Chemie - International Edition*, **2019**, 58, 2236-2240	16.4	113

142	Rapid, real-time chemiluminescent detection of DNA mutation based on digital microfluidics and pyrosequencing. *Biosensors and Bioelectronics*, **2019**, 126, 551-557	11.8	18
141	Gas-generating reactions for point-of-care testing. *Analyst, The*, **2018**, 143, 1294-1304	5	31
140	DNA aptamers from whole-cell SELEX as new diagnostic agents against glioblastoma multiforme cells. *Analyst, The*, **2018**, 143, 2267-2275	5	13
139	Lateral flow assay with pressure meter readout for rapid point-of-care detection of disease-associated protein. *Lab on A Chip*, **2018**, 18, 965-970	7.2	40
138	Target-responsive DNA hydrogel for non-enzymatic and visual detection of glucose. *Analyst, The*, **2018**, 143, 1679-1684	5	40
137	Microwell Array Method for Rapid Generation of Uniform Agarose Droplets and Beads for Single Molecule Analysis. *Analytical Chemistry*, **2018**, 90, 2570-2577	7.8	26
136	Facile fabrication of microfluidic surface-enhanced Raman scattering devices via lift-up lithography. *Royal Society Open Science*, **2018**, 5, 172034	3.3	16
135	In Situ Pt Staining Method for Simple, Stable, and Sensitive Pressure-Based Bioassays. *ACS Applied Materials & Interfaces*, **2018**, 10, 13390-13396	9.5	22
134	Highly Sensitive and Automated Surface Enhanced Raman Scattering-based Immunoassay for H5N1 Detection with Digital Microfluidics. *Analytical Chemistry*, **2018**, 90, 5224-5231	7.8	74
133	A Synthetic Light-Driven Substrate Channeling System for Precise Regulation of Enzyme Cascade Activity Based on DNA Origami. *Journal of the American Chemical Society*, **2018**, 140, 8990-8996	16.4	67
132	Integrated paper-based microfluidic devices for point-of-care testing. *Analytical Methods*, **2018**, 10, 3567-3581	3.3	52
131	Design and synthesis of ortho-phthalaldehyde phosphoramidite for single-step, rapid, efficient and chemoselective coupling of DNA with proteins under physiological conditions. *Chemical Communications*, **2018**, 54, 9434-9437	5.8	12
130	Frequency-enhanced transferrin receptor antibody-labelled microfluidic chip (FETAL-Chip) enables efficient enrichment of circulating nucleated red blood cells for non-invasive prenatal diagnosis. *Lab on A Chip*, **2018**, 18, 2749-2756	7.2	25
129	Selection and identification of transferrin receptor-specific peptides as recognition probes for cancer cells. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 1071-1077	4.4	10
128	Bioinspired Engineering of a Multivalent Aptamer-Functionalized Nanointerface to Enhance the Capture and Release of Circulating Tumor Cells. *Angewandte Chemie*, **2018**, 131, 2258	3.6	8
127	An Allosteric-Probe for Detection of Alkaline Phosphatase Activity and Its Application in Immunoassay. *Frontiers in Chemistry*, **2018**, 6, 618	5	6
126	A fully integrated distance readout ELISA-Chip for point-of-care testing with sample-in-answer-out capability. *Biosensors and Bioelectronics*, **2017**, 96, 332-338	11.8	64
125	A portable visual detection method based on a target-responsive DNA hydrogel and color change of gold nanorods. *Chemical Communications*, **2017**, 53, 6375-6378	5.8	48

124	Enrichment and single-cell analysis of circulating tumor cells. *Chemical Science*, **2017**, 8, 1736-1751	9.4	122
123	Hydrogel Droplet Microfluidics for High-Throughput Single Molecule/Cell Analysis. *Accounts of Chemical Research*, **2017**, 50, 22-31	24.3	115
122	Target-responsive DNAzyme hydrogel for portable colorimetric detection of lanthanide(III) ions. *Science China Chemistry*, **2017**, 60, 293-298	7.9	21
121	Centrifugal micropipette-tip with pressure signal readout for portable quantitative detection of myoglobin. *Chemical Communications*, **2017**, 53, 11774-11777	5.8	15
120	Detection of T4 Polynucleotide Kinase via Allosteric Aptamer Probe Platform. *ACS Applied Materials & Interfaces*, **2017**, 9, 38356-38363	9.5	25
119	Isolation, Detection, and Antigen-Based Profiling of Circulating Tumor Cells Using a Size-Dictated Immunocapture Chip. *Angewandte Chemie*, **2017**, 129, 10821-10825	3.6	18
118	Isolation, Detection, and Antigen-Based Profiling of Circulating Tumor Cells Using a Size-Dictated Immunocapture Chip. *Angewandte Chemie - International Edition*, **2017**, 56, 10681-10685	16.4	100
117	Integrated Distance-Based Origami Paper Analytical Device for One-Step Visualized Analysis. *ACS Applied Materials & Interfaces*, **2017**, 9, 30480-30487	9.5	58
116	Integrating Target-Responsive Hydrogel with Pressuremeter Readout Enables Simple, Sensitive, User-Friendly, Quantitative Point-of-Care Testing. *ACS Applied Materials & Interfaces*, **2017**, 9, 22252-22258	9.5	67
115	Detection of DNA methyltransferase activity using allosteric molecular beacons. *Analyst, The*, **2016**, 141, 579-84	5	10
114	DNA-Mediated Morphological Control of Silver Nanoparticles. *Small*, **2016**, 12, 5449-5487	11	25
113	A Shake&Read distance-based microfluidic chip as a portable quantitative readout device for highly sensitive point-of-care testing. *Chemical Communications*, **2016**, 52, 13377-13380	5.8	20
112	A pressure-based bioassay for the rapid, portable and quantitative detection of C-reactive protein. *Chemical Communications*, **2016**, 52, 8452-4	5.8	43
111	Portable visual quantitative detection of aflatoxin B1 using a target-responsive hydrogel and a distance-readout microfluidic chip. *Lab on A Chip*, **2016**, 16, 3097-104	7.2	77
110	Microfluidic Distance Readout Sweet Hydrogel Integrated Paper-Based Analytical Device (DiSH-PAD) for Visual Quantitative Point-of-Care Testing. *Analytical Chemistry*, **2016**, 88, 2345-52	7.8	146
109	Evolution of DNA aptamers for malignant brain tumor gliosarcoma cell recognition and clinical tissue imaging. *Biosensors and Bioelectronics*, **2016**, 80, 1-8	11.8	29
108	Distance-based microfluidic quantitative detection methods for point-of-care testing. *Lab on A Chip* , **2016**, 16, 1139-51	7.2	113
107	Enzyme-Encapsulated Liposome-Linked Immunosorbent Assay Enabling Sensitive Personal Glucose Meter Readout for Portable Detection of Disease Biomarkers. *ACS Applied Materials & Interfaces*, **2016**, 8, 6890-7	9.5	60

106	Integration of target responsive hydrogel with cascaded enzymatic reactions and microfluidic paper-based analytic devices (μPADs) for point-of-care testing (POCT). *Biosensors and Bioelectronics*, **2016**, 77, 537-42	11.8	80
105	Directional Regulation of Enzyme Pathways through the Control of Substrate Channeling on a DNA Origami Scaffold. *Angewandte Chemie*, **2016**, 128, 7609-7612	3.6	17
104	Recent Progress in Aptamer-Based Functional Probes for Bioanalysis and Biomedicine. *Chemistry - A European Journal*, **2016**, 22, 9886-900	4.8	43
103	Advance in phage display technology for bioanalysis. *Biotechnology Journal*, **2016**, 11, 732-45	5.6	47
102	Surface-Enhanced Raman Scattering Active Plasmonic Nanoparticles with Ultrasmall Interior Nanogap for Multiplex Quantitative Detection and Cancer Cell Imaging. *Analytical Chemistry*, **2016**, 88, 7828-36	7.8	63
101	Directional Regulation of Enzyme Pathways through the Control of Substrate Channeling on a DNA Origami Scaffold. *Angewandte Chemie - International Edition*, **2016**, 55, 7483-6	16.4	91
100	Design and synthesis of target-responsive hydrogel for portable visual quantitative detection of uranium with a microfluidic distance-based readout device. *Biosensors and Bioelectronics*, **2016**, 85, 496-502	11.8	68
99	Afi-Chip: An Equipment-Free, Low-Cost, and Universal Binding Ligand Affinity Evaluation Platform. *Analytical Chemistry*, **2016**, 88, 8294-301	7.8	16
98	Simple and Rapid Functionalization of Gold Nanorods with Oligonucleotides Using an mPEG-SH/Tween 20-Assisted Approach. *Langmuir*, **2015**, 31, 7869-76	4	40
97	The Clinical Application of Aptamers: Future Challenges and Prospects **2015**, 339-352		1
96	Design and synthesis of target-responsive aptamer-cross-linked hydrogel for visual quantitative detection of ochratoxin A. *ACS Applied Materials & Interfaces*, **2015**, 7, 6982-90	9.5	115
95	Evolution of DNA aptamers through in vitro metastatic-cell-based systematic evolution of ligands by exponential enrichment for metastatic cancer recognition and imaging. *Analytical Chemistry*, **2015**, 87, 4941-8	7.8	50
94	A controllable aptamer-based self-assembled DNA dendrimer for high affinity targeting, bioimaging and drug delivery. *Scientific Reports*, **2015**, 5, 10099	4.9	114
93	Target-responsive DNA hydrogel mediated "stop-flow" microfluidic paper-based analytic device for rapid, portable and visual detection of multiple targets. *Analytical Chemistry*, **2015**, 87, 4275-82	7.8	115
92	Selection and Application of DNA Aptamer Against Oncogene Amplified in Breast Cancer 1. *Journal of Molecular Evolution*, **2015**, 81, 179-85	3.1	3
91	Translating Molecular Recognition into a Pressure Signal to enable Rapid, Sensitive, and Portable Biomedical Analysis. *Angewandte Chemie - International Edition*, **2015**, 54, 10448-53	16.4	125
90	Translating Molecular Recognition into a Pressure Signal to enable Rapid, Sensitive, and Portable Biomedical Analysis. *Angewandte Chemie*, **2015**, 127, 10594-10599	3.6	11
89	Highly sensitive and selective detection of miRNA: DNase I-assisted target recycling using DNA probes protected by polydopamine nanospheres. *Chemical Communications*, **2015**, 51, 2156-8	5.8	65

88	Stable DNA Nanomachine Based on Duplex-Triplex Transition for Ratiometric Imaging Instantaneous pH Changes in Living Cells. *Analytical Chemistry*, **2015**, 87, 5854-9	7.8	45
87	A label-free fluorescence strategy for sensitive detection of ATP based on the ligation-triggered super-sandwich. *Biosensors and Bioelectronics*, **2015**, 63, 562-565	11.8	23
86	Using Cell-Specific Aptamer-Nanomaterial Conjugates for Cancer Cell Detection **2015**, 215-237		
85	A highly parallel microfluidic droplet method enabling single-molecule counting for digital enzyme detection. *Biomicrofluidics*, **2014**, 8, 014110	3.2	40
84	A T7 exonuclease-assisted cyclic enzymatic amplification method coupled with rolling circle amplification: a dual-amplification strategy for sensitive and selective microRNA detection. *Chemical Communications*, **2014**, 50, 1576-8	5.8	68
83	In vitro and in vivo studies on the transport of PEGylated silica nanoparticles across the blood-brain barrier. *ACS Applied Materials & Interfaces*, **2014**, 6, 2131-6	9.5	91
82	Selection of DNA aptamers against epidermal growth factor receptor with high affinity and specificity. *Biochemical and Biophysical Research Communications*, **2014**, 453, 681-5	3.4	45
81	Target-responsive DNAzyme cross-linked hydrogel for visual quantitative detection of lead. *Analytical Chemistry*, **2014**, 86, 11434-9	7.8	128
80	A diazirine-based photoaffinity probe for facile and efficient aptamer-protein covalent conjugation. *Chemical Communications*, **2014**, 50, 4891-4	5.8	18
79	Carbon nanoparticle-protected aptamers for highly sensitive and selective detection of biomolecules based on nuclease-assisted target recycling signal amplification. *Chemical Communications*, **2014**, 50, 7646-8	5.8	35
78	Label-free fluorescence strategy for sensitive detection of adenosine triphosphate using a loop DNA probe with low background noise. *Analytical Chemistry*, **2014**, 86, 6758-62	7.8	35
77	Microfluidic approaches to rapid and efficient aptamer selection. *Biomicrofluidics*, **2014**, 8, 041501	3.2	30
76	Trifluoromethylated Nucleic Acid Analogues Capable of Self-Assembly through Hydrophobic Interactions. *Chemical Science*, **2014**, 5, 4076-4081	9.4	12
75	A cell-surface-anchored ratiometric fluorescent probe for extracellular pH sensing. *ACS Applied Materials & Interfaces*, **2014**, 6, 15329-34	9.5	87
74	Synergetic approach for simple and rapid conjugation of gold nanoparticles with oligonucleotides. *ACS Applied Materials & Interfaces*, **2014**, 6, 16800-7	9.5	39
73	Monoclonal surface display SELEX for simple, rapid, efficient, and cost-effective aptamer enrichment and identification. *Analytical Chemistry*, **2014**, 86, 5881-8	7.8	61
72	Facile and rapid generation of large-scale microcollagen gel array for long-term single-cell 3D culture and cell proliferation heterogeneity analysis. *Analytical Chemistry*, **2014**, 86, 2789-97	7.8	34
71	A multifunctional nanomicelle for real-time targeted imaging and precise near-infrared cancer therapy. *Angewandte Chemie - International Edition*, **2014**, 53, 9544-9	16.4	157

70	In vitro selection of DNA aptamers for metastatic breast cancer cell recognition and tissue imaging. *Analytical Chemistry*, **2014**, 86, 6596-603	7.8	85
69	Au@Pt Nanoparticle Encapsulated Target-Responsive Hydrogel with Volumetric Bar-Chart Chip Readout for Quantitative Point-of-Care Testing. *Angewandte Chemie*, **2014**, 126, 12711-12715	3.6	27
68	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, 12503-7	16.4	103
67	A Multifunctional Nanomicelle for Real-Time Targeted Imaging and Precise Near-Infrared Cancer Therapy. *Angewandte Chemie*, **2014**, 126, 9698-9703	3.6	15
66	Stabilization of ssRNA on graphene oxide surface: an effective way to design highly robust RNA probes. *Analytical Chemistry*, **2013**, 85, 2269-75	7.8	61
65	Graphene oxide protected nucleic acid probes for bioanalysis and biomedicine. *Chemistry - A European Journal*, **2013**, 19, 10442-51	4.8	36
64	Single-molecule photon-fueled DNA nanoscissors for DNA cleavage based on the regulation of substrate binding affinity by azobenzene. *Chemical Communications*, **2013**, 49, 8716-8	5.8	22
63	Backbone-modified molecular beacons for highly sensitive and selective detection of microRNAs based on duplex specific nuclease signal amplification. *Chemical Communications*, **2013**, 49, 7243-5	5.8	94
62	Cyclic enzymatic amplification method (CEAM) based on exonuclease III for highly sensitive bioanalysis. *Methods*, **2013**, 63, 202-11	4.6	13
61	Selection of DNA aptamers against epithelial cell adhesion molecule for cancer cell imaging and circulating tumor cell capture. *Analytical Chemistry*, **2013**, 85, 4141-9	7.8	305
60	Engineering a cell-surface aptamer circuit for targeted and amplified photodynamic cancer therapy. *ACS Nano*, **2013**, 7, 2312-9	16.7	78
59	Target-responsive "sweet" hydrogel with glucometer readout for portable and quantitative detection of non-glucose targets. *Journal of the American Chemical Society*, **2013**, 135, 3748-51	16.4	265
58	Photosensitizer-gold nanorod composite for targeted multimodal therapy. *Small*, **2013**, 9, 3678-84	11	95
57	An electrochemical sensor based on label-free functional allosteric molecular beacons for detection target DNA/miRNA. *Biosensors and Bioelectronics*, **2013**, 41, 783-8	11.8	59
56	DNA micelle flares for intracellular mRNA imaging and gene therapy. *Angewandte Chemie - International Edition*, **2013**, 52, 2012-6	16.4	133
55	DNA Micelle Flares for Intracellular mRNA Imaging and Gene Therapy. *Angewandte Chemie*, **2013**, 125, 2066-2070	3.6	36
54	An exonuclease III and graphene oxide-aided assay for DNA detection. *Biosensors and Bioelectronics* , **2012**, 35, 475-478	11.8	57
53	Aptamer-incorporated hydrogels for visual detection, controlled drug release, and targeted cancer therapy. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 187-94	4.4	46

52	Semiquantification of ATP in live cells using nonspecific desorption of DNA from graphene oxide as the internal reference. *Analytical Chemistry*, **2012**, 84, 8622-7	7.8	98
51	Highly sensitive and quantitative detection of rare pathogens through agarose droplet microfluidic emulsion PCR at the single-cell level. *Lab on A Chip*, **2012**, 12, 3907-13	7.2	61
50	Massively parallel single-molecule and single-cell emulsion reverse transcription polymerase chain reaction using agarose droplet microfluidics. *Analytical Chemistry*, **2012**, 84, 3599-606	7.8	104
49	Colorimetric logic gates based on aptamer-crosslinked hydrogels. *Chemical Communications*, **2012**, 48, 1248-50	5.8	82
48	Backbone modification promotes peroxidase activity of G-quadruplex-based DNAzyme. *Chemical Communications*, **2012**, 48, 8347-9	5.8	30
47	Label-free visual detection of nucleic acids in biological samples with single-base mismatch detection capability. *Chemical Communications*, **2012**, 48, 576-8	5.8	17
46	L-DNA molecular beacon: a safe, stable, and accurate intracellular nano-thermometer for temperature sensing in living cells. *Journal of the American Chemical Society*, **2012**, 134, 18908-11	16.4	145
45	In vitro selection of highly efficient G-quadruplex-based DNAzymes. *Analytical Chemistry*, **2012**, 84, 8383-90	7.8	66
44	Single-molecule force spectroscopic studies on intra- and intermolecular interactions of G-quadruplex aptamer with target Shp2 protein. *Journal of Physical Chemistry B*, **2012**, 116, 11397-404	3.4	12
43	Molecular beacon aptamers for direct and universal quantitation of recombinant proteins from cell lysates. *Analytical Chemistry*, **2012**, 84, 8272-6	7.8	23
42	Aptamer-nanoparticle assembly for logic-based detection. *ACS Applied Materials & Interfaces*, **2012**, 4, 3007-11	9.5	59
41	A logical molecular circuit for programmable and autonomous regulation of protein activity using DNA aptamer-protein interactions. *Journal of the American Chemical Society*, **2012**, 134, 20797-804	16.4	94
40	Highly parallel single-molecule amplification approach based on agarose droplet polymerase chain reaction for efficient and cost-effective aptamer selection. *Analytical Chemistry*, **2012**, 84, 350-5	7.8	59
39	Mass amplifying probe for sensitive fluorescence anisotropy detection of small molecules in complex biological samples. *Analytical Chemistry*, **2012**, 84, 5535-41	7.8	101
38	Graphene oxide-protected DNA probes for multiplex microRNA analysis in complex biological samples based on a cyclic enzymatic amplification method. *Chemical Communications*, **2012**, 48, 194-6	5.8	177
37	Selection of DNA aptamers against glioblastoma cells with high affinity and specificity. *PLoS ONE*, **2012**, 7, e42731	3.7	42
36	Identification, characterization and application of a G-quadruplex structured DNA aptamer against cancer biomarker protein anterior gradient homolog 2. *PLoS ONE*, **2012**, 7, e46393	3.7	40
35	Single-molecule emulsion PCR in microfluidic droplets. *Analytical and Bioanalytical Chemistry*, **2012**, 403, 2127-43	4.4	66

34	Assembly of aptamer switch probes and photosensitizer on gold nanorods for targeted photothermal and photodynamic cancer therapy. *ACS Nano*, **2012**, 6, 5070-7	16.7	297
33	Insulin-binding aptamer-conjugated graphene oxide for insulin detection. *Analyst, The*, **2011**, 136, 4138-40	4	108
32	Single-walled carbon nanotubes as optical materials for biosensing. *Nanoscale*, **2011**, 3, 1949-56	7.7	73
31	Molecular engineering of photoresponsive three-dimensional DNA nanostructures. *Chemical Communications*, **2011**, 47, 4670-2	5.8	49
30	Caged molecular beacons: controlling nucleic acid hybridization with light. *Chemical Communications*, **2011**, 47, 5708-10	5.8	32
29	Aptamer-conjugated nanomaterials for bioanalysis and biotechnology applications. *Nanoscale*, **2011**, 3, 546-56	7.7	98
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27	Amplified detection of cocaine based on strand-displacement polymerization and fluorescence resonance energy transfer. *Biosensors and Bioelectronics*, **2011**, 28, 450-3	11.8	43
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