

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Carbon nanotube-quenched fluorescent oligonucleotides: probes that fluoresce upon hybridization. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 8351-8	16.4	508
194	Pyrene-excimer probes based on the hybridization chain reaction for the detection of nucleic acids in complex biological fluids. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 401-4	16.4	458
193	Selection of DNA aptamers against epithelial cell adhesion molecule for cancer cell imaging and circulating tumor cell capture. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 4141-9	7.8	305
192	An aptamer cross-linked hydrogel as a colorimetric platform for visual detection. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 1052-6	16.4	304
191	Assembly of aptamer switch probes and photosensitizer on gold nanorods for targeted photothermal and photodynamic cancer therapy. <i>ACS Nano</i> , <b>2012</b> , 6, 5070-7	16.7	297
190	Noncovalent assembly of carbon nanotubes and single-stranded DNA: an effective sensing platform for probing biomolecular interactions. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 7408-13	7.8	286
189	Target-responsive "sweet" hydrogel with glucometer readout for portable and quantitative detection of non-glucose targets. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 3748-51	16.4	265
188	Aptamer switch probe based on intramolecular displacement. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 11268-9	16.4	257
187	Regulation of singlet oxygen generation using single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 10856-7	16.4	239
186	A dual platform for selective analyte enrichment and ionization in mass spectrometry using aptamer-conjugated graphene oxide. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 17408-10	16.4	180
185	Graphene oxide-protected DNA probes for multiplex microRNA analysis in complex biological samples based on a cyclic enzymatic amplification method. <i>Chemical Communications</i> , <b>2012</b> , 48, 194-6	5.8	177
184	A multifunctional nanomicelle for real-time targeted imaging and precise near-infrared cancer therapy. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 9544-9	16.4	157
183	Using aptamer-conjugated fluorescence resonance energy transfer nanoparticles for multiplexed cancer cell monitoring. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 7009-14	7.8	151
182	Discovery of Aptamers Targeting the Receptor-Binding Domain of the SARS-CoV-2 Spike Glycoprotein. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 9895-9900	7.8	147
181	Microfluidic Distance Readout Sweet Hydrogel Integrated Paper-Based Analytical Device (DiSH-PAD) for Visual Quantitative Point-of-Care Testing. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 2345-52	7.8	146
180	L-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> , <b>2012</b> , 134, 18908-11	16.4	145
179	Engineering a unimolecular DNA-catalytic probe for single lead ion monitoring. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 8221-6	16.4	139

178	Photoresponsive DNA-cross-linked hydrogels for controllable release and cancer therapy. <i>Langmuir</i> , <b>2011</b> , 27, 399-408	4	137
177	DNA micelle flares for intracellular mRNA imaging and gene therapy. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 2012-6	16.4	133
176	Target-responsive DNAzyme cross-linked hydrogel for visual quantitative detection of lead. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11434-9	7.8	128
175	DNA-based micelles: synthesis, micellar properties and size-dependent cell permeability. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 3791-7	4.8	127
174	Translating Molecular Recognition into a Pressure Signal to enable Rapid, Sensitive, and Portable Biomedical Analysis. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 10448-53	16.4	125
173	Enrichment and single-cell analysis of circulating tumor cells. <i>Chemical Science</i> , <b>2017</b> , 8, 1736-1751	9.4	122
172	Hydrogel Droplet Microfluidics for High-Throughput Single Molecule/Cell Analysis. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 22-31	24.3	115
171	Design and synthesis of target-responsive aptamer-cross-linked hydrogel for visual quantitative detection of ochratoxin A. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 6982-90	9.5	115
170	Target-responsive DNA hydrogel mediated "stop-flow" microfluidic paper-based analytic device for rapid, portable and visual detection of multiple targets. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 4275-82	7.8	115
169	A controllable aptamer-based self-assembled DNA dendrimer for high affinity targeting, bioimaging and drug delivery. <i>Scientific Reports</i> , <b>2015</b> , 5, 10099	4.9	114
168	Distance-based microfluidic quantitative detection methods for point-of-care testing. <i>Lab on A Chip</i> , <b>2016</b> , 16, 1139-51	7.2	113
167	Bioinspired Engineering of a Multivalent Aptamer-Functionalized Nanointerface to Enhance the Capture and Release of Circulating Tumor Cells. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2236-2240	16.4	113
166	Insulin-binding aptamer-conjugated graphene oxide for insulin detection. <i>Analyst, The</i> , <b>2011</b> , 136, 4138-40	5	108
165	Massively parallel single-molecule and single-cell emulsion reverse transcription polymerase chain reaction using agarose droplet microfluidics. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 3599-606	7.8	104
164	Au@Pt nanoparticle encapsulated target-responsive hydrogel with volumetric bar-chart chip readout for quantitative point-of-care testing. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 12503-7	16.4	103
163	Mass amplifying probe for sensitive fluorescence anisotropy detection of small molecules in complex biological samples. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5535-41	7.8	101
162	Isolation, Detection, and Antigen-Based Profiling of Circulating Tumor Cells Using a Size-Dictated Immunocapture Chip. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 10681-10685	16.4	100
161	Semiquantification of ATP in live cells using nonspecific desorption of DNA from graphene oxide as the internal reference. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 8622-7	7.8	98

160	Aptamer-conjugated nanomaterials for bioanalysis and biotechnology applications. <i>Nanoscale</i> , <b>2011</b> , 3, 546-56	7.7	98
159	Single-walled carbon nanotube as an effective quencher. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 396, 73-83	4.4	98
158	Applications of aptamers in cancer cell biology. <i>Analytica Chimica Acta</i> , <b>2008</b> , 621, 101-8	6.6	98
157	Photosensitizer-gold nanorod composite for targeted multimodal therapy. <i>Small</i> , <b>2013</b> , 9, 3678-84	11	95
156	Backbone-modified molecular beacons for highly sensitive and selective detection of microRNAs based on duplex specific nuclease signal amplification. <i>Chemical Communications</i> , <b>2013</b> , 49, 7243-5	5.8	94
155	A logical molecular circuit for programmable and autonomous regulation of protein activity using DNA aptamer-protein interactions. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 20797-804	16.4	94
154	In vitro and in vivo studies on the transport of PEGylated silica nanoparticles across the blood-brain barrier. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 2131-6	9.5	91
153	Directional Regulation of Enzyme Pathways through the Control of Substrate Channeling on a DNA Origami Scaffold. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 7483-6	16.4	91
152	A cell-surface-anchored ratiometric fluorescent probe for extracellular pH sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 15329-34	9.5	87
151	In vitro selection of DNA aptamers for metastatic breast cancer cell recognition and tissue imaging. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 6596-603	7.8	85
150	Colorimetric logic gates based on aptamer-crosslinked hydrogels. <i>Chemical Communications</i> , <b>2012</b> , 48, 1248-50	5.8	82
149	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> , <b>2016</b> , 77, 537-42	11.8	80
148	Engineering a cell-surface aptamer circuit for targeted and amplified photodynamic cancer therapy. <i>ACS Nano</i> , <b>2013</b> , 7, 2312-9	16.7	78
147	Portable visual quantitative detection of aflatoxin B1 using a target-responsive hydrogel and a distance-readout microfluidic chip. <i>Lab on A Chip</i> , <b>2016</b> , 16, 3097-104	7.2	77
146	Mapping receptor density on live cells by using fluorescence correlation spectroscopy. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 5327-36	4.8	77
145	Self-assembly of a bifunctional DNA carrier for drug delivery. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 6098-101	16.4	76
144	Highly Sensitive and Automated Surface Enhanced Raman Scattering-based Immunoassay for H5N1 Detection with Digital Microfluidics. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5224-5231	7.8	74
143	Single-walled carbon nanotubes as optical materials for biosensing. <i>Nanoscale</i> , <b>2011</b> , 3, 1949-56	7.7	73

142	A simple but highly sensitive and selective colorimetric and fluorescent probe for Cu <sup>2+</sup> in aqueous media. <i>Analyst, The</i> , <b>2011</b> , 136, 1124-8	5	73
141	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> , <b>2014</b> , 50, 1576-8	5.8	68
140	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> , <b>2016</b> , 85, 496-502	11.8	68
139	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> , <b>2018</b> , 140, 8990-8996	16.4	67
138	Integrating Target-Responsive Hydrogel with Pressuremeter Readout Enables Simple, Sensitive, User-Friendly, Quantitative Point-of-Care Testing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 22252-22258	9.5	67
137	In vitro selection of highly efficient G-quadruplex-based DNAzymes. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 8383-90	7.9	66
136	Single-molecule emulsion PCR in microfluidic droplets. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 403, 2127-43	4.4	66
135	Competition-mediated pyrene-switching aptasensor: probing lysozyme in human serum with a monomer-excimer fluorescence switch. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 10158-63	7.8	66
134	Highly sensitive and selective detection of miRNA: DNase I-assisted target recycling using DNA probes protected by polydopamine nanospheres. <i>Chemical Communications</i> , <b>2015</b> , 51, 2156-8	5.8	65
133	A fully integrated distance readout ELISA-Chip for point-of-care testing with sample-in-answer-out capability. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 96, 332-338	11.8	64
132	Surface-Enhanced Raman Scattering Active Plasmonic Nanoparticles with Ultrasmall Interior Nanogap for Multiplex Quantitative Detection and Cancer Cell Imaging. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7828-36	7.8	63
131	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> , <b>2020</b> , 59, 4800-4805	16.4	62
130	Monoclonal surface display SELEX for simple, rapid, efficient, and cost-effective aptamer enrichment and identification. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 5881-8	7.8	61
129	Stabilization of ssRNA on graphene oxide surface: an effective way to design highly robust RNA probes. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 2269-75	7.8	61
128	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> , <b>2012</b> , 12, 3907-13	7.2	61
127	Enzyme-Encapsulated Liposome-Linked Immunosorbent Assay Enabling Sensitive Personal Glucose Meter Readout for Portable Detection of Disease Biomarkers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 6890-7	9.5	60
126	Aptamer-nanoparticle assembly for logic-based detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 3007-11	9.5	59
125	Highly parallel single-molecule amplification approach based on agarose droplet polymerase chain reaction for efficient and cost-effective aptamer selection. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 350-5	7.8	59

124	An electrochemical sensor based on label-free functional allosteric molecular beacons for detection target DNA/miRNA. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 41, 783-8	11.8	59
123	Integrated Distance-Based Origami Paper Analytical Device for One-Step Visualized Analysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 30480-30487	9.5	58
122	Trends in miniaturized biosensors for point-of-care testing. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2020</b> , 122, 115701	14.6	58
121	An exonuclease III and graphene oxide-aided assay for DNA detection. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 35, 475-478	11.8	57
120	DNA-directed nanofabrication of high-performance carbon nanotube field-effect transistors. <i>Science</i> , <b>2020</b> , 368, 878-881	33.3	56
119	Recent Progress in Microfluidics-Based Biosensing. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 388-404	7.8	54
118	An Aptamer Cross-Linked Hydrogel as a Colorimetric Platform for Visual Detection. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 1070-1074	3.6	53
117	Integrated paper-based microfluidic devices for point-of-care testing. <i>Analytical Methods</i> , <b>2018</b> , 10, 3567-3581	3.581	52
116	Chemical-Driven Reconfigurable Arithmetic Functionalities within a Fluorescent Tetrathiafulvalene Derivative. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 16973-16983	3.8	51
115	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> , <b>2015</b> , 87, 4941-8	7.8	50
114	Molecular engineering of photoresponsive three-dimensional DNA nanostructures. <i>Chemical Communications</i> , <b>2011</b> , 47, 4670-2	5.8	49
113	New TTF derivatives: several molecular logic gates based on their switchable fluorescent emissions. <i>New Journal of Chemistry</i> , <b>2007</b> , 31, 580	3.6	49
112	A portable visual detection method based on a target-responsive DNA hydrogel and color change of gold nanorods. <i>Chemical Communications</i> , <b>2017</b> , 53, 6375-6378	5.8	48
111	Advance in phage display technology for bioanalysis. <i>Biotechnology Journal</i> , <b>2016</b> , 11, 732-45	5.6	47
110	Aptamer-incorporated hydrogels for visual detection, controlled drug release, and targeted cancer therapy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 187-94	4.4	46
109	Selection of DNA aptamers against epidermal growth factor receptor with high affinity and specificity. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 453, 681-5	3.4	45
108	Stable DNA Nanomachine Based on Duplex-Triplex Transition for Ratiometric Imaging Instantaneous pH Changes in Living Cells. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 5854-9	7.8	45
107	A pressure-based bioassay for the rapid, portable and quantitative detection of C-reactive protein. <i>Chemical Communications</i> , <b>2016</b> , 52, 8452-4	5.8	43

106	Amplified detection of cocaine based on strand-displacement polymerization and fluorescence resonance energy transfer. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 28, 450-3	11.8	43
105	Recent Progress in Aptamer-Based Functional Probes for Bioanalysis and Biomedicine. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 9886-900	4.8	43
104	Selection of DNA aptamers against glioblastoma cells with high affinity and specificity. <i>PLoS ONE</i> , <b>2012</b> , 7, e42731	3.7	42
103	Simple and Rapid Functionalization of Gold Nanorods with Oligonucleotides Using an mPEG-SH/Tween 20-Assisted Approach. <i>Langmuir</i> , <b>2015</b> , 31, 7869-76	4	40
102	Lateral flow assay with pressure meter readout for rapid point-of-care detection of disease-associated protein. <i>Lab on A Chip</i> , <b>2018</b> , 18, 965-970	7.2	40
101	Target-responsive DNA hydrogel for non-enzymatic and visual detection of glucose. <i>Analyst, The</i> , <b>2018</b> , 143, 1679-1684	5	40
100	A highly parallel microfluidic droplet method enabling single-molecule counting for digital enzyme detection. <i>Biomicrofluidics</i> , <b>2014</b> , 8, 014110	3.2	40
99	Identification, characterization and application of a G-quadruplex structured DNA aptamer against cancer biomarker protein anterior gradient homolog 2. <i>PLoS ONE</i> , <b>2012</b> , 7, e46393	3.7	40
98	Synergetic approach for simple and rapid conjugation of gold nanoparticles with oligonucleotides. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 16800-7	9.5	39
97	Using aptamers to visualize and capture cancer cells. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 397, 3225-33	4.4	39
96	Graphene oxide protected nucleic acid probes for bioanalysis and biomedicine. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 10442-51	4.8	36
95	DNA Micelle Flares for Intracellular mRNA Imaging and Gene Therapy. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 2066-2070	3.6	36
94	Pyrene-Excimer Probes Based on the Hybridization Chain Reaction for the Detection of Nucleic Acids in Complex Biological Fluids. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 421-424	3.6	36
93	Carbon nanoparticle-protected aptamers for highly sensitive and selective detection of biomolecules based on nuclease-assisted target recycling signal amplification. <i>Chemical Communications</i> , <b>2014</b> , 50, 7646-8	5.8	35
92	Label-free fluorescence strategy for sensitive detection of adenosine triphosphate using a loop DNA probe with low background noise. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 6758-62	7.8	35
91	Tracing Tumor-Derived Exosomal PD-L1 by Dual-Aptamer Activated Proximity-Induced Droplet Digital PCR. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7582-7586	16.4	35
90	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> , <b>2014</b> , 86, 2789-97	7.8	34
89	Microfluidic Single-Cell Omics Analysis. <i>Small</i> , <b>2020</b> , 16, e1903905	11	33

88	Nucleic Acids Analysis. <i>Science China Chemistry</i> , <b>2020</b> , 64, 1-33	7.9	33
87	A microfluidic-integrated lateral flow recombinase polymerase amplification (MI-IF-RPA) assay for rapid COVID-19 detection. <i>Lab on A Chip</i> , <b>2021</b> , 21, 2019-2026	7.2	33
86	Caged molecular beacons: controlling nucleic acid hybridization with light. <i>Chemical Communications</i> , <b>2011</b> , 47, 5708-10	5.8	32
85	Gas-generating reactions for point-of-care testing. <i>Analyst, The</i> , <b>2018</b> , 143, 1294-1304	5	31
84	Microfluidic approaches to rapid and efficient aptamer selection. <i>Biomicrofluidics</i> , <b>2014</b> , 8, 041501	3.2	30
83	Backbone modification promotes peroxidase activity of G-quadruplex-based DNAzyme. <i>Chemical Communications</i> , <b>2012</b> , 48, 8347-9	5.8	30
82	Evolution of DNA aptamers for malignant brain tumor gliosarcoma cell recognition and clinical tissue imaging. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 80, 1-8	11.8	29
81	Visual Quantitative Detection of Circulating Tumor Cells with Single-Cell Sensitivity Using a Portable Microfluidic Device. <i>Small</i> , <b>2019</b> , 15, e1804890	11	28
80	Au@Pt Nanoparticle Encapsulated Target-Responsive Hydrogel with Volumetric Bar-Chart Chip Readout for Quantitative Point-of-Care Testing. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 12711-12715	3.6	27
79	Microwell Array Method for Rapid Generation of Uniform Agarose Droplets and Beads for Single Molecule Analysis. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 2570-2577	7.8	26
78	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 &amp; Interfaces</i> , <b>2019</b> , 11, 1800-1806	9.5	26
77	Detection of T4 Polynucleotide Kinase via Allosteric Aptamer Probe Platform. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38356-38363	9.5	25
76	DNA-Mediated Morphological Control of Silver Nanoparticles. <i>Small</i> , <b>2016</b> , 12, 5449-5487	11	25
75	Frequency-enhanced transferrin receptor antibody-labelled microfluidic chip (FETAL-Chip) enables efficient enrichment of circulating nucleated red blood cells for non-invasive prenatal diagnosis. <i>Lab on A Chip</i> , <b>2018</b> , 18, 2749-2756	7.2	25
74	Single cell transcriptomics: moving towards multi-omics. <i>Analyst, The</i> , <b>2019</b> , 144, 3172-3189	5	25
73	Aptamer-target binding triggered molecular mediation of singlet oxygen generation. <i>Chemistry - an Asian Journal</i> , <b>2010</b> , 5, 783-6	4.5	24
72	A label-free fluorescence strategy for sensitive detection of ATP based on the ligation-triggered super-sandwich. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 63, 562-565	11.8	23
71	Molecular beacon aptamers for direct and universal quantitation of recombinant proteins from cell lysates. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 8272-6	7.8	23

70	Homogeneous, Low-volume, Efficient, and Sensitive Quantitation of Circulating Exosomal PD-L1 for Cancer Diagnosis and Immunotherapy Response Prediction. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 4830-4835	3.6	22
69	In Situ Pt Staining Method for Simple, Stable, and Sensitive Pressure-Based Bioassays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 13390-13396	9.5	22
68	Single-molecule photon-fueled DNA nanoscissors for DNA cleavage based on the regulation of substrate binding affinity by azobenzene. <i>Chemical Communications</i> , <b>2013</b> , 49, 8716-8	5.8	22
67	Target-responsive DNAzyme hydrogel for portable colorimetric detection of lanthanide(III) ions. <i>Science China Chemistry</i> , <b>2017</b> , 60, 293-298	7.9	21
66	A Shake&Read distance-based microfluidic chip as a portable quantitative readout device for highly sensitive point-of-care testing. <i>Chemical Communications</i> , <b>2016</b> , 52, 13377-13380	5.8	20
65	A Sequential Multidimensional Analysis Algorithm for Aptamer Identification based on Structure Analysis and Machine Learning. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 3307-3314	7.8	20
64	Highly parallel and efficient single cell mRNA sequencing with paired picoliter chambers. <i>Nature Communications</i> , <b>2020</b> , 11, 2118	17.4	19
63	Molecular Crowding Evolution for Enabling Discovery of Enthalpy-Driven Aptamers for Robust Biomedical Applications. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 10879-10886	7.8	19
62	Evolution of Nucleic Acid Aptamers Capable of Specifically Targeting Glioma Stem Cells via Cell-SELEX. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 8070-8077	7.8	18
61	A diazirine-based photoaffinity probe for facile and efficient aptamer-protein covalent conjugation. <i>Chemical Communications</i> , <b>2014</b> , 50, 4891-4	5.8	18
60	Isolation, Detection, and Antigen-Based Profiling of Circulating Tumor Cells Using a Size-Dictated Immunocapture Chip. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 10821-10825	3.6	18
59	Rapid, real-time chemiluminescent detection of DNA mutation based on digital microfluidics and pyrosequencing. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 126, 551-557	11.8	18
58	Label-free visual detection of nucleic acids in biological samples with single-base mismatch detection capability. <i>Chemical Communications</i> , <b>2012</b> , 48, 576-8	5.8	17
57	Directional Regulation of Enzyme Pathways through the Control of Substrate Channeling on a DNA Origami Scaffold. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 7609-7612	3.6	17
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38	Detection of DNA methyltransferase activity using allosteric molecular beacons. <i>Analyst, The</i> , <b>2016</b> , 141, 579-84	5	10
37	Distance-based paper/PMMA integrated ELISA-chip for quantitative detection of immunoglobulin G. <i>Lab on A Chip</i> , <b>2020</b> , 20, 3625-3632	7.2	10
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35	Selection and identification of transferrin receptor-specific peptides as recognition probes for cancer cells. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 1071-1077	4.4	10

34	Auto-affitech: an automated ligand binding affinity evaluation platform using digital microfluidics with a bidirectional magnetic separation method. <i>Lab on A Chip</i> , <b>2020</b> , 20, 1577-1585	7.2	9
33	HUNTER-Chip: Bioinspired Hierarchically Aptamer Structure-Based Circulating Fetal Cell Isolation for Non-Invasive Prenatal Testing. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 7235-7241	7.8	8
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31	Scaling Up DNA Self-Assembly.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 2805-2815	4.1	7
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