

Xiaohai Yang

List of Publications by Citations

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229
papers

7,403
citations

43
h-index

74
g-index

233
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8,396
ext. citations

6.9
avg, IF

5.97
L-index

#	Paper	IF	Citations
229	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> , 2011 , 50, 401-4	16.4	458
228	Preparation and antibacterial activity of Fe ₃ O ₄ @Ag nanoparticles. <i>Nanotechnology</i> , 2007 , 18, 285604	3.4	401
227	Enzyme-free colorimetric detection of DNA by using gold nanoparticles and hybridization chain reaction amplification. <i>Analytical Chemistry</i> , 2013 , 85, 7689-95	7.8	264
226	Activatable aptamer probe for contrast-enhanced in vivo cancer imaging based on cell membrane protein-triggered conformation alteration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 3900-5	11.5	251
225	FRET Nanoflares for Intracellular mRNA Detection: Avoiding False Positive Signals and Minimizing Effects of System Fluctuations. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8340-3	16.4	225
224	Sensitive fluorescence detection of nucleic acids based on isothermal circular strand-displacement polymerization reaction. <i>Nucleic Acids Research</i> , 2009 , 37, e20	20.1	199
223	Functionalized silica nanoparticles: a platform for fluorescence imaging at the cell and small animal levels. <i>Accounts of Chemical Research</i> , 2013 , 46, 1367-76	24.3	146
222	One-step engineering of silver nanoclusters-aptamer assemblies as luminescent labels to target tumor cells. <i>Nanoscale</i> , 2012 , 4, 110-2	7.7	118
221	Surface plasmon resonance biosensor for sensitive detection of microRNA and cancer cell using multiple signal amplification strategy. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 433-438	11.8	115
220	Gold Nanoparticle Loaded Split-DNAzyme Probe for Amplified miRNA Detection in Living Cells. <i>Analytical Chemistry</i> , 2017 , 89, 8377-8383	7.8	105
219	Graphene oxide-gold nanoparticles hybrids-based surface plasmon resonance for sensitive detection of microRNA. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 1001-7	11.8	104
218	Ratiometric fluorescent sensing of pH values in living cells by dual-fluorophore-labeled i-motif nanopores. <i>Analytical Chemistry</i> , 2015 , 87, 8724-31	7.8	101
217	Direct quantification of cancerous exosomes via surface plasmon resonance with dual gold nanoparticle-assisted signal amplification. <i>Biosensors and Bioelectronics</i> , 2019 , 135, 129-136	11.8	94
216	Gold Nanoparticle Based Hairpin-Locked-DNAzyme Probe for Amplified miRNA Imaging in Living Cells. <i>Analytical Chemistry</i> , 2017 , 89, 5850-5856	7.8	92
215	A switchable fluorescent quantum dot probe based on aggregation/disaggregation mechanism. <i>Chemical Communications</i> , 2011 , 47, 935-7	5.8	88
214	A DNA nanowire based localized catalytic hairpin assembly reaction for microRNA imaging in live cells. <i>Chemical Science</i> , 2018 , 9, 7802-7808	9.4	85
213	Surface plasmon resonance biosensor for enzyme-free amplified microRNA detection based on gold nanoparticles and DNA supersandwich. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 613-620	8.5	84

212	Detection of C-reactive protein using nanoparticle-enhanced surface plasmon resonance using an aptamer-antibody sandwich assay. <i>Chemical Communications</i> , 2016 , 52, 3568-71	5.8	84
211	Aptazyme-Gold Nanoparticle Sensor for Amplified Molecular Probing in Living Cells. <i>Analytical Chemistry</i> , 2016 , 88, 5981-7	7.8	83
210	A DNA tetrahedron-based molecular beacon for tumor-related mRNA detection in living cells. <i>Chemical Communications</i> , 2016 , 52, 2346-9	5.8	82
209	DNA tetrahedron nanostructures for biological applications: biosensors and drug delivery. <i>Analyst, The</i> , 2017 , 142, 3322-3332	5	81
208	Screening of DNA aptamers against myoglobin using a positive and negative selection units integrated microfluidic chip and its biosensing application. <i>Analytical Chemistry</i> , 2014 , 86, 6572-9	7.8	74
207	Different active biomolecules involved in biosynthesis of gold nanoparticles by three fungus species. <i>Journal of Biomedical Nanotechnology</i> , 2011 , 7, 245-54	4	73
206	Fluorescence resonance energy transfer-based hybridization chain reaction for visualization of tumor-related mRNA. <i>Chemical Science</i> , 2016 , 7, 3829-3835	9.4	70
205	High sensitivity surface plasmon resonance biosensor for detection of microRNA and small molecule based on graphene oxide-gold nanoparticles composites. <i>Talanta</i> , 2017 , 174, 521-526	6.2	63
204	Sensitive point-of-care monitoring of cardiac biomarker myoglobin using aptamer and ubiquitous personal glucose meter. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 161-4	11.8	61
203	MnO nanosheet mediated "DD-A" FRET binary probes for sensitive detection of intracellular mRNA. <i>Chemical Science</i> , 2017 , 8, 668-673	9.4	59
202	Enhanced surface plasmon resonance with the modified catalytic growth of Au nanoparticles. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1106-10	11.8	57
201	Recent advances in fluorescent nucleic acid probes for living cell studies. <i>Analyst, The</i> , 2013 , 138, 62-71	5	55
200	Real-time monitoring of uracil removal by uracil-DNA glycosylase using fluorescent resonance energy transfer probes. <i>Analytical Biochemistry</i> , 2007 , 366, 237-43	3.1	55
199	Self-Assembled DNA Nanocentipede as Multivalent Drug Carrier for Targeted Delivery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25733-25740	9.5	54
198	Aptamer-based analysis of angiogenin by fluorescence anisotropy. <i>Analyst, The</i> , 2007 , 132, 107-13	5	52
197	Low-Fouling Surface Plasmon Resonance Sensor for Highly Sensitive Detection of MicroRNA in a Complex Matrix Based on the DNA Tetrahedron. <i>Analytical Chemistry</i> , 2018 , 90, 12584-12591	7.8	52
196	Powerful Amplification Cascades of FRET-Based Two-Layer Nonenzymatic Nucleic Acid Circuits. <i>Analytical Chemistry</i> , 2016 , 88, 5857-64	7.8	51
195	Label-free and non-enzymatic detection of DNA based on hybridization chain reaction amplification and dsDNA-templated copper nanoparticles. <i>Analytica Chimica Acta</i> , 2014 , 827, 74-9	6.6	49

194	A novel kinase-based ATP assay using molecular beacon. <i>Analytical Biochemistry</i> , 2008 , 372, 131-3	3.1	48
193	High sensitivity surface plasmon resonance biosensor for detection of microRNA based on gold nanoparticles-decorated molybdenum sulfide. <i>Analytica Chimica Acta</i> , 2017 , 993, 55-62	6.6	47
192	A cell-surface-anchored ratiometric i-motif sensor for extracellular pH detection. <i>Chemical Communications</i> , 2016 , 52, 7818-21	5.8	47
191	Point-of-Care Assay of Alkaline Phosphatase Enzymatic Activity Using a Thermometer or Temperature Discoloration Sticker as Readout. <i>Analytical Chemistry</i> , 2019 , 91, 7943-7949	7.8	46
190	Exciton energy transfer-based fluorescent sensing through aptamer-programmed self-assembly of quantum dots. <i>Analytical Chemistry</i> , 2013 , 85, 11121-8	7.8	46
189	Aptamer-based FRET nanoflares for imaging potassium ions in living cells. <i>Chemical Communications</i> , 2016 , 52, 11386-11389	5.8	46
188	Competition-Mediated FRET-Switching DNA Tetrahedron Molecular Beacon for Intracellular Molecular Detection. <i>ACS Sensors</i> , 2016 , 1, 1445-1452	9.2	45
187	Real-time monitoring of restriction endonuclease activity using molecular beacon. <i>Analytical Biochemistry</i> , 2007 , 363, 294-6	3.1	44
186	Visual detection of myoglobin via G-quadruplex DNAzyme functionalized gold nanoparticles-based colorimetric biosensor. <i>Sensors and Actuators B: Chemical</i> , 2015 , 212, 440-445	8.5	43
185	Competitive host-guest interaction between β -cyclodextrin polymer and pyrene-labeled probes for fluorescence analyses. <i>Analytical Chemistry</i> , 2015 , 87, 2665-71	7.8	43
184	Amplified detection of cocaine based on strand-displacement polymerization and fluorescence resonance energy transfer. <i>Biosensors and Bioelectronics</i> , 2011 , 28, 450-3	11.8	43
183	An isothermal electrochemical biosensor for the sensitive detection of microRNA based on a catalytic hairpin assembly and supersandwich amplification. <i>Analyst, The</i> , 2017 , 142, 389-396	5	41
182	A signal-on split aptasensor for highly sensitive and specific detection of tumor cells based on FRET. <i>Chemical Communications</i> , 2016 , 52, 1590-3	5.8	40
181	Scallop-Inspired DNA Nanomachine: A Ratiometric Nanothermometer for Intracellular Temperature Sensing. <i>Analytical Chemistry</i> , 2017 , 89, 12115-12122	7.8	39
180	Surface plasmon resonance detection of small molecule using split aptamer fragments. <i>Sensors and Actuators B: Chemical</i> , 2011 , 156, 893-898	8.5	39
179	Electrical switching of DNA monolayers investigated by surface plasmon resonance. <i>Langmuir</i> , 2006 , 22, 5654-9	4	39
178	Dual-microRNA-controlled double-amplified cascaded logic DNA circuits for accurate discrimination of cell subtypes. <i>Chemical Science</i> , 2019 , 10, 1442-1449	9.4	38
177	A sensitive detection of T4 polynucleotide kinase activity based on β -cyclodextrin polymer enhanced fluorescence combined with an exonuclease reaction. <i>Chemical Communications</i> , 2015 , 51, 1815-8	5.8	38

176	"Sense-and-Treat" DNA Nanodevice for Synergetic Destruction of Circulating Tumor Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26552-26558	9.5	38
175	Multiplex detection of nucleic acids using a low cost microfluidic chip and a personal glucose meter at the point-of-care. <i>Chemical Communications</i> , 2014 , 50, 3824-6	5.8	38
174	An electrochemical DNA biosensor based on the "Y" junction structure and restriction endonuclease-aided target recycling strategy. <i>Chemical Communications</i> , 2012 , 48, 2982-4	5.8	38
173	Self-assembled supramolecular nanoprobe for ratiometric fluorescence measurement of intracellular pH values. <i>Analytical Chemistry</i> , 2015 , 87, 2459-65	7.8	37
172	Fluorescent nanoparticles for chemical and biological sensing. <i>Science China Chemistry</i> , 2011 , 54, 1157-1176	11.7	37
171	An enzyme-free and amplified colorimetric detection strategy via target-aptamer binding triggered catalyzed hairpin assembly. <i>Chemical Communications</i> , 2015 , 51, 937-40	5.8	36
170	Exciton energy transfer-based quantum dot fluorescence sensing array: "chemical noses" for discrimination of different nucleobases. <i>Analytical Chemistry</i> , 2015 , 87, 876-83	7.8	36
169	Aggregation control of quantum dots through ion-mediated hydrogen bonding shielding. <i>ACS Nano</i> , 2012 , 6, 4973-83	16.7	36
168	Pyrene-Excimer Probes Based on the Hybridization Chain Reaction for the Detection of Nucleic Acids in Complex Biological Fluids. <i>Angewandte Chemie</i> , 2011 , 123, 421-424	3.6	36
167	Colorimetric detection of mercury ion based on unmodified gold nanoparticles and target-triggered hybridization chain reaction amplification. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 136 Pt B, 283-7	4.4	35
166	Programmable Self-Assembly of DNA-Protein Hybrid Hydrogel for Enzyme Encapsulation with Enhanced Biological Stability. <i>Biomacromolecules</i> , 2016 , 17, 1543-50	6.9	35
165	I-motif-based nano-flares for sensing pH changes in live cells. <i>Chemical Communications</i> , 2014 , 50, 15768-71	5.7	34
164	Proximity-dependent protein detection based on enzyme-assisted fluorescence signal amplification. <i>Biosensors and Bioelectronics</i> , 2014 , 51, 255-60	11.8	34
163	Molecular beacon based bioassay for highly sensitive and selective detection of nicotinamide adenine dinucleotide and the activity of alanine aminotransferase. <i>Analytical Chemistry</i> , 2011 , 83, 2505-10	7.8	34
162	Real-time imaging of protein internalization using aptamer conjugates. <i>Analytical Chemistry</i> , 2008 , 80, 5002-8	7.8	34
161	Enhanced surface plasmon resonance for detection of DNA hybridization based on layer-by-layer assembly films. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 227-232	8.5	34
160	Design and bioanalytical applications of DNA hairpin-based fluorescent probes. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 53, 11-20	14.6	33
159	Enzyme-mediated nitric oxide production in vasoactive erythrocyte membrane-enclosed coacervate protocells. <i>Nature Chemistry</i> , 2020 , 12, 1165-1173	17.6	33

158	Detection of Nucleic Acids in Complex Samples via Magnetic Microbead-Assisted Catalyzed Hairpin Assembly and "DD-A" FRET. <i>Analytical Chemistry</i> , 2018 , 90, 7164-7170	7.8	33
157	A sensitive one-step method for quantitative detection of α -amylase in serum and urine using a personal glucose meter. <i>Analyst, The</i> , 2015 , 140, 1161-5	5	32
156	FRET-based aptamer probe for rapid angiogenin detection. <i>Talanta</i> , 2008 , 75, 770-4	6.2	32
155	DNA aptamer-based surface plasmon resonance sensing of human C-reactive protein. <i>RSC Advances</i> , 2014 , 4, 30934-30937	3.7	31
154	Construction of coacervate-in-coacervate multi-compartment protocells for spatial organization of enzymatic reactions. <i>Chemical Science</i> , 2020 , 11, 8617-8625	9.4	30
153	Novel separation and preconcentration of trace amounts of copper(II) in water samples based on neocuproine modified magnetic microparticles. <i>Analytica Chimica Acta</i> , 2005 , 550, 18-23	6.6	29
152	Self-assembled DNA nanocentipedes as multivalent vehicles for enhanced delivery of CpG oligonucleotides. <i>Chemical Communications</i> , 2017 , 53, 5565-5568	5.8	28
151	Inorganic fluorescent nanoprobe for cellular and subcellular imaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 58, 120-129	14.6	28
150	Real-time monitoring of DNA polymerase activity using molecular beacon. <i>Analytical Biochemistry</i> , 2006 , 353, 141-3	3.1	28
149	Photostable luminescent nanoparticles as biological label for cell recognition of system lupus erythematosus patients. <i>Journal of Nanoscience and Nanotechnology</i> , 2002 , 2, 317-20	1.3	28
148	Nucleic acids detection using cationic fluorescent polymer based on one-dimensional microfluidic beads array. <i>Talanta</i> , 2009 , 77, 1027-31	6.2	27
147	Enhanced Imaging of Specific Cell-Surface Glycosylation Based on Multi-FRET. <i>Analytical Chemistry</i> , 2018 , 90, 6131-6137	7.8	26
146	Hairpin-fuelled catalytic nanobeacons for amplified microRNA imaging in live cells. <i>Chemical Communications</i> , 2018 , 54, 10336-10339	5.8	26
145	Use of mercaptophenylboronic acid functionalized gold nanoparticles in a sensitive and selective dynamic light scattering assay for glucose detection in serum. <i>Analyst, The</i> , 2013 , 138, 5146-50	5	26
144	Three-Dimensional Molecular Transfer from DNA Nanocages to Inner Gold Nanoparticle Surfaces. <i>ACS Nano</i> , 2019 , 13, 4174-4182	16.7	25
143	Giant Coacervate Vesicles As an Integrated Approach to Cytomimetic Modeling. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2866-2874	16.4	25
142	A novel fluorescent detection for PDGF-BB based on dsDNA-templated copper nanoparticles. <i>Chinese Chemical Letters</i> , 2014 , 25, 9-14	8.1	24
141	A novel sensitive and selective ligation-based ATP assay using a molecular beacon. <i>Analyst, The</i> , 2013 , 138, 3013-7	5	23

140	Atomic force microscopy investigation of the characteristic effects of silver ions on Escherichia coli and Staphylococcus epidermidis. <i>Talanta</i> , 2010 , 81, 1508-12	6.2	23
139	Two-Color-Based Nanoflares for Multiplexed MicroRNAs Imaging in Live Cells. <i>Nanotheranostics</i> , 2018 , 2, 96-105	5.6	23
138	A supersandwich fluorescence in situ hybridization strategy for highly sensitive and selective mRNA imaging in tumor cells. <i>Chemical Communications</i> , 2016 , 52, 370-3	5.8	22
137	Single-walled carbon nanotubes (SWCNTs)-assisted cell-systematic evolution of ligands by exponential enrichment (cell-SELEX) for improving screening efficiency. <i>Analytical Chemistry</i> , 2014 , 86, 9466-72	7.8	22
136	High Signal-to-Background Ratio Detection of Cancer Cells with Activatable Strategy Based on Target-Induced Self-Assembly of Split Aptamers. <i>Analytical Chemistry</i> , 2017 , 89, 9347-9353	7.8	22
135	Evaluation of medicine effects on the interaction of myoglobin and its aptamer or antibody using atomic force microscopy. <i>Analytical Chemistry</i> , 2015 , 87, 2242-8	7.8	22
134	Combining physical embedding and covalent bonding for stable encapsulation of quantum dots into agarose hydrogels. <i>Journal of Materials Chemistry</i> , 2012 , 22, 495-501		22
133	On-chip oligonucleotide ligation assay using one-dimensional microfluidic beads array for the detection of low-abundant DNA point mutations. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 945-51	11.8	22
132	Optical fiber amplifier for quantitative and sensitive point-of-care testing of myoglobin and miRNA-141. <i>Biosensors and Bioelectronics</i> , 2019 , 129, 87-92	11.8	22
131	Quantum dot/methylene blue FRET mediated NIR fluorescent nanomicelles with large Stokes shift for bioimaging. <i>Chemical Communications</i> , 2015 , 51, 14357-60	5.8	21
130	An enzyme-free and amplified colorimetric detection strategy: assembly of gold nanoparticles through target-catalytic circuits. <i>Analyst, The</i> , 2015 , 140, 1004-7	5	21
129	A new strategy for designing a graphene oxide-based DNA hairpin probe: fluorescence upon switching the orientation of the sticky end. <i>Chemical Communications</i> , 2013 , 49, 9827-9	5.8	20
128	Self-assembled DNA nanowires as quantitative dual-drug nanocarriers for antitumor chemophotodynamic combination therapy. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 7529-7537	7.3	20
127	Single nanoparticle imaging and characterization of different phospholipid-encapsulated quantum dot micelles. <i>Langmuir</i> , 2012 , 28, 10602-9	4	20
126	A one-step sensitive dynamic light scattering method for detection using split aptamer fragments. <i>Analytical Methods</i> , 2011 , 3, 59-61	3.2	20
125	G-quadruplex fluorescence quenching ability: a simple and efficient strategy to design a single-labeled DNA probe. <i>Analytical Methods</i> , 2012 , 4, 895	3.2	19
124	Chemical etching with tetrafluoroborate: a facile method for resizing of CdTe nanocrystals under mild conditions. <i>Chemical Communications</i> , 2009 , 6080-2	5.8	19
123	Development of Dual-Aptamers for Constructing Sandwich-Type Pancreatic Polypeptide Assay. <i>ACS Sensors</i> , 2017 , 2, 308-315	9.2	18

122	A recognition-before-labeling strategy for sensitive detection of lung cancer cells with a quantum dot-aptamer complex. <i>Analyst, The</i> , 2015 , 140, 6100-7	5	18
121	Red blood cell membrane-mediated fusion of hydrophobic quantum dots with living cell membranes for cell imaging. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4191-4197	7.3	18
120	Amplified fluorescence detection of adenosine via catalyzed hairpin assembly and host-guest interactions between β -cyclodextrin polymer and pyrene. <i>Analyst, The</i> , 2016 , 141, 2502-7	5	18
119	One-dimensional microfluidic beads array for multiple mRNAs expression detection. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2759-62	11.8	18
118	Proof of concept for inhibiting metastasis: circulating tumor cell-triggered localized release of anticancer agent via a structure-switching aptamer. <i>Chemical Communications</i> , 2016 , 52, 6789-92	5.8	18
117	Live-Cell MicroRNA Imaging through MnO Nanosheet-Mediated DD-A Hybridization Chain Reaction. <i>ChemBioChem</i> , 2018 , 19, 147-152	3.8	18
116	Use of β -cyclodextrin-tethered cationic polymer based fluorescence enhancement of pyrene and hybridization chain reaction for the enzyme-free amplified detection of DNA. <i>Analyst, The</i> , 2016 , 142, 224-228	5	17
115	Electrochemical biosensors for detection of point mutation based on surface ligation reaction and oligonucleotides modified gold nanoparticles. <i>Analytica Chimica Acta</i> , 2011 , 688, 163-7	6.6	17
114	Amplified FRET Nanoflares: An Endogenous mRNA-Powered Nanomachine for Intracellular MicroRNA Imaging. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20104-20111	16.4	17
113	Ratiometric Fluorescent DNA Nanostructure for Mitochondrial ATP Imaging in Living Cells Based on Hybridization Chain Reaction. <i>Analytical Chemistry</i> , 2021 , 93, 6715-6722	7.8	17
112	A simple label-free aptamer-based method for C-reactive protein detection. <i>Analytical Methods</i> , 2016 , 8, 4177-4180	3.2	17
111	Surface plasmon resonance assay for exosomes based on aptamer recognition and polydopamine-functionalized gold nanoparticles for signal amplification. <i>Mikrochimica Acta</i> , 2020 , 187, 251	5.8	16
110	Split aptazyme-based catalytic molecular beacons for amplified detection of adenosine. <i>Analyst, The</i> , 2014 , 139, 2994-7	5	16
109	Amplified electrochemical DNA sensor using peroxidase-like DNAzyme. <i>Talanta</i> , 2010 , 83, 500-4	6.2	16
108	Preconcentration and separation of ultra-trace beryllium using quinalizarine-modified magnetic microparticles. <i>Analytica Chimica Acta</i> , 2009 , 646, 123-7	6.6	16
107	Real-time monitoring of double-stranded DNA cleavage using molecular beacons. <i>Talanta</i> , 2008 , 76, 458-61	6.2	16
106	Real-time monitoring of nucleic acid dephosphorylation by using molecular beacons. <i>ChemBioChem</i> , 2007 , 8, 1487-90	3.8	16
105	An enzyme-free colorimetric assay using hybridization chain reaction amplification and split aptamers. <i>Analyst, The</i> , 2015 , 140, 7657-62	5	15

104	Sensitive detection of DNA methyltransferase activity based on rolling circle amplification technology. <i>Chinese Chemical Letters</i> , 2014 , 25, 1047-1051	8.1	15
103	A multiple amplification strategy for nucleic acid detection based on host-guest interaction between the Cyclodextrin polymer and pyrene. <i>Analyst, The</i> , 2015 , 140, 2016-22	5	15
102	FRET-based nucleic acid probes: Basic designs and applications in bioimaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 124, 115784	14.6	15
101	A light-up fluorescence assay for tumor cell detection based on bifunctional split aptamers. <i>Analyst, The</i> , 2018 , 143, 3579-3585	5	15
100	Discrimination of hemoglobins with subtle differences using an aptamer based sensing array. <i>Chemical Communications</i> , 2015 , 51, 8304-6	5.8	14
99	P(VPBA-DMAEA) as a pH-sensitive nanovalve for mesoporous silica nanoparticles based controlled release. <i>Chinese Chemical Letters</i> , 2015 , 26, 1203-1208	8.1	14
98	Self-Assembled Supramolecular Nanoparticles for Targeted Delivery and Combination Chemotherapy. <i>ChemMedChem</i> , 2018 , 13, 2037-2044	3.7	14
97	Ratiometric determination of human papillomavirus-16 DNA by using fluorescent DNA-templated silver nanoclusters and hairpin-blocked DNAzyme-assisted cascade amplification. <i>Mikrochimica Acta</i> , 2019 , 186, 613	5.8	14
96	Solid-phase single molecule biosensing using dual-color colocalization of fluorescent quantum dot nanoprobe. <i>Nanoscale</i> , 2013 , 5, 11257-64	7.7	14
95	Evaluating the Effect of Lidocaine on the Interactions of C-reactive Protein with Its Aptamer and Antibody by Dynamic Force Spectroscopy. <i>Analytical Chemistry</i> , 2017 , 89, 3370-3377	7.8	13
94	Design of a Modular DNA Triangular-Prism Sensor Enabling Ratiometric and Multiplexed Biomolecule Detection on a Single Microbead. <i>Analytical Chemistry</i> , 2017 , 89, 3590-3596	7.8	13
93	Tuning transport selectivity of ionic species by phosphoric acid gradient in positively charged nanochannel membranes. <i>Analytical Chemistry</i> , 2015 , 87, 1544-51	7.8	13
92	Improving the performance of immobilized molecular beacons through cleavage. <i>Analytica Chimica Acta</i> , 2006 , 567, 173-178	6.6	13
91	Cell-SELEX based selection and optimization of DNA aptamers for specific recognition of human cholangiocarcinoma QBC-939 cells. <i>Analyst, The</i> , 2015 , 140, 5992-7	5	12
90	Photocaged FRET nanoflares for intracellular microRNA imaging. <i>Chemical Communications</i> , 2020 , 56, 6126-6129	5.8	12
89	Aptamer-mediated indirect quantum dot labeling and fluorescent imaging of target proteins in living cells. <i>Nanotechnology</i> , 2014 , 25, 505502	3.4	12
88	A label-free and sensitive supersandwich electrochemical biosensor for small molecule detection based on target-induced aptamer displacement. <i>Analytical Methods</i> , 2012 , 4, 2221	3.2	12
87	Angiogenin-mediated photosensitizer-aptamer conjugate for photodynamic therapy. <i>ChemMedChem</i> , 2011 , 6, 1778-80	3.7	12

86	Detection of single-base mutations using 1-D microfluidic beads array. <i>Electrophoresis</i> , 2007 , 28, 4668-78,6		12
85	Amplified fluorescence detection of DNA based on catalyzed dynamic assembly and host-guest interaction between β -cyclodextrin polymer and pyrene. <i>Talanta</i> , 2015 , 144, 529-34	6.2	11
84	Gold nanoparticle-based 2SO-methyl modified DNA probes for breast cancerous theranostics. <i>Talanta</i> , 2018 , 183, 11-17	6.2	11
83	Anomalous effects of water flow through charged nanochannel membranes. <i>RSC Advances</i> , 2014 , 4, 26729-26737	3.7	11
82	pH and ion strength modulated ionic species loading in mesoporous silica nanoparticles. <i>Nanotechnology</i> , 2013 , 24, 415501	3.4	11
81	A novel fluorescent label based on biological fluorescent nanoparticles and its application in cell recognition. <i>Science Bulletin</i> , 2001 , 46, 1962-1965		11
80	Exploring Interactions of Aptamers with A β Amyloid Aggregates and Its Application: Detection of Amyloid Aggregates. <i>Analytical Chemistry</i> , 2020 , 92, 2853-2858	7.8	11
79	DNA Hydrogelation-Enhanced Imaging Ellipsometry for Sensing Exosomal microRNAs with a Tunable Detection Range. <i>Analytical Chemistry</i> , 2020 , 92, 11953-11959	7.8	11
78	Controlled formation of Ag ₂ S/Ag Janus nanoparticles using alkylamine as reductant surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 544, 111-117	5.1	10
77	Steric hindrance regulated supramolecular assembly between β -cyclodextrin polymer and pyrene for alkaline phosphatase fluorescent sensing. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 156, 131-7	4.4	10
76	Whole cell-SELEX aptamers for fluorescence staining of frozen hepatocellular carcinoma tissues. <i>Analytical Methods</i> , 2014 , 6, 3506-3509	3.2	10
75	Recognition of single-base mismatch DNA by Au nanoparticle-assisted electroelution. <i>Analyst, The</i> , 2008 , 133, 1274-9	5	10
74	Aptamer as a Tool for Investigating the Effects of Electric Field on A β Monomer and Aggregates Using Single-Molecule Force Spectroscopy. <i>Analytical Chemistry</i> , 2019 , 91, 1954-1961	7.8	10
73	Aptamer-tethered self-assembled FRET-flares for microRNA imaging in living cancer cells. <i>Chemical Communications</i> , 2020 , 56, 2463-2466	5.8	9
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