

# Xiaohai Yang

## List of Publications by Year in Descending Order

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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.

229  
papers

7,403  
citations

43  
h-index

74  
g-index

233  
ext. papers

8,396  
ext. citations

6.9  
avg, IF

5.97  
L-index

#	Paper	IF	Citations
229	Optical fiber amplifier and thermometer assisted point-of-care biosensor for detection of cancerous exosomes. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 351, 130893	8.5	0
228	Polymer-assisted Au@PDA nanoparticles lyophilized powder with high stability and low adsorption and its application in colorimetric biosensing. <i>Analytica Chimica Acta</i> , <b>2022</b> , 339995	6.6	0
227	Coacervate microdroplet protocell-mediated gene transfection for nitric oxide production and induction of cell apoptosis. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 9784-9793	7.3	1
226	Ratiometric Fluorescent DNA Nanostructure for Mitochondrial ATP Imaging in Living Cells Based on Hybridization Chain Reaction. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 6715-6722	7.8	17
225	Orderly Assembled, Self-Powered FRET Flares for MicroRNA Imaging in Live Cells. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 6270-6277	7.8	6
224	Photothermally Activated Coacervate Model Protocells as Signal Transducers Endow Mammalian Cells with Light Sensitivity. <i>Advanced Biology</i> , <b>2021</b> , 5, e2100695		1
223	Controlled dimerization of artificial membrane receptors for transmembrane signal transduction. <i>Chemical Science</i> , <b>2021</b> , 12, 8224-8230	9.4	3
222	An ion transport switch based on light-responsive conformation-dependent G-quadruplex transmembrane channels. <i>Chemical Communications</i> , <b>2021</b> , 57, 8214-8217	5.8	1
221	Giant Coacervate Vesicles As an Integrated Approach to Cytomimetic Modeling. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2866-2874	16.4	25
220	Microcapillary-based multicolor assay for quantitative and sensitive point-of-care testing of proteins. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 189, 113370	11.8	0
219	Self-immobilization of coacervate droplets by enzyme-mediated hydrogelation. <i>Chemical Communications</i> , <b>2021</b> , 57, 5438-5441	5.8	3
218	Invasion and Defense Interactions between Enzyme-Active Liquid Coacervate Protocells and Living Cells. <i>Small</i> , <b>2020</b> , 16, e2002073	11	8
217	Lipophilic G-Quadruplex Isomers as Biomimetic Ion Channels for Conformation-Dependent Selective Transmembrane Transport. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 10169-10176	7.8	5
216	A DNA tetrahedron-based molecular computation device for the logic sensing of dual microRNAs in living cells. <i>Chemical Communications</i> , <b>2020</b> , 56, 5303-5306	5.8	6
215	Surface plasmon resonance assay for exosomes based on aptamer recognition and polydopamine-functionalized gold nanoparticles for signal amplification. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 251	5.8	16
214	Selection of Affinity Reagents to Neutralize the Hemolytic Toxicity of Melittin Based on a Self-Assembled Nanoparticle Library. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 16040-16049	9.5	6
213	A lysosome specific, acidic-pH activated, near-infrared Bodipy fluorescent probe for noninvasive, long-term, in vivo tumor imaging. <i>Materials Science and Engineering C</i> , <b>2020</b> , 111, 110762	8.3	7

212	Sensitive and specific detection of tumour cells based on a multivalent DNA nanocreeper and a multiplexed fluorescence supersandwich. <i>Chemical Communications</i> , <b>2020</b> , 56, 3693-3696	5.8	3
211	Aptamer-tethered self-assembled FRET-flares for microRNA imaging in living cancer cells. <i>Chemical Communications</i> , <b>2020</b> , 56, 2463-2466	5.8	9
210	Photocaged FRET nanoflares for intracellular microRNA imaging. <i>Chemical Communications</i> , <b>2020</b> , 56, 6126-6129	5.8	12
209	Contradictory effect of gold nanoparticle-decorated molybdenum sulfide nanocomposites on amyloid- $\beta$ 40 aggregation. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 3113-3116	8.1	5
208	Exploring Interactions of Aptamers with A $\beta$ Amyloid Aggregates and Its Application: Detection of Amyloid Aggregates. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 2853-2858	7.8	11
207	Engineering DNAzyme cascade for signal transduction and amplification. <i>Analyst, The</i> , <b>2020</b> , 145, 1925-1932		2
206	FRET-based nucleic acid probes: Basic designs and applications in bioimaging. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2020</b> , 124, 115784	14.6	15
205	Investigation of the interaction between split aptamer and vascular endothelial growth factor 165 using single molecule force spectroscopy. <i>Journal of Molecular Recognition</i> , <b>2020</b> , 33, e2829	2.6	4
204	Engineering and Application of a Myoglobin Binding Split Aptamer. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 14576-14581	7.1	14
203	A DNAzyme cascade for amplified detection of intracellular miRNA. <i>Chemical Communications</i> , <b>2020</b> , 56, 10163-10166	5.8	8
202	Enzyme-mediated nitric oxide production in vasoactive erythrocyte membrane-enclosed coacervate protocells. <i>Nature Chemistry</i> , <b>2020</b> , 12, 1165-1173	17.6	33
201	Development of DNA Aptamer as a $\beta$ Amyloid Aggregation Inhibitor.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 8611-8618	4.1	8
200	The mechanisms of HSA@PDA/Fe nanocomposites with enhanced nanozyme activity and their application in intracellular HO detection. <i>Nanoscale</i> , <b>2020</b> , 12, 24206-24213	7.7	3
199	Photothermal and fluorescent dual-mode assay based on the formation of polydopamine nanoparticles for accurate determination of organophosphate pesticides. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 652	5.8	8
198	Construction of coacervate-in-coacervate multi-compartment protocells for spatial organization of enzymatic reactions. <i>Chemical Science</i> , <b>2020</b> , 11, 8617-8625	9.4	30
197	DNA Hydrogelation-Enhanced Imaging Ellipsometry for Sensing Exosomal microRNAs with a Tunable Detection Range. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 11953-11959	7.8	11
196	Amplified FRET Nanoflares: An Endogenous mRNA-Powered Nanomachine for Intracellular MicroRNA Imaging. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 20279-20286	3.6	6
195	Amplified FRET Nanoflares: An Endogenous mRNA-Powered Nanomachine for Intracellular MicroRNA Imaging. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20104-20111	16.4	17

194	Amplified AND logic platform for cell identification. <i>Chemical Communications</i> , <b>2020</b> , 56, 11267-11270	5.8	8
193	Mutual Interaction Models: Invasion and Defense Interactions between Enzyme-Active Liquid Coacervate Protocells and Living Cells (Small 29/2020). <i>Small</i> , <b>2020</b> , 16, 2070162	11	
192	Near-infrared photothermal release of hydrogen sulfide from nanocomposite hydrogels for anti-inflammation applications. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 787-791	8.1	9
191	Single-stranded DNA designed lipophilic G-quadruplexes as transmembrane channels for switchable potassium transport. <i>Chemical Communications</i> , <b>2019</b> , 55, 12004-12007	5.8	8
190	Construction of Bio/Nanointerfaces: Stable Gold Nanoparticle Bioconjugates in Complex Systems. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 40817-40825	9.5	8
189	Dual-microRNA-controlled double-amplified cascaded logic DNA circuits for accurate discrimination of cell subtypes. <i>Chemical Science</i> , <b>2019</b> , 10, 1442-1449	9.4	38
188	Point-of-Care Assay of Alkaline Phosphatase Enzymatic Activity Using a Thermometer or Temperature Discoloration Sticker as Readout. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 7943-7949	7.8	46
187	DNA-Silver Nanocluster Binary Probes for Ratiometric Fluorescent Detection of HPV-related DNA. <i>Chemical Research in Chinese Universities</i> , <b>2019</b> , 35, 581-585	2.2	3
186	Biomimetic nanochannel membrane for cascade response of borate and cis-hydroxyl compounds: An IMP logic gate device. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 1397-1400	8.1	5
185	Direct quantification of cancerous exosomes via surface plasmon resonance with dual gold nanoparticle-assisted signal amplification. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 135, 129-136	11.8	94
184	Mitochondria targeted self-assembled ratiometric fluorescent nanoprobe for pH imaging in living cells. <i>Analytical Methods</i> , <b>2019</b> , 11, 2097-2104	3.2	6
183	DNA supersandwich assemblies as artificial receptors to mediate intracellular delivery of catalase for efficient ROS scavenging. <i>Chemical Communications</i> , <b>2019</b> , 55, 4242-4245	5.8	8
182	Three-Dimensional Molecular Transfer from DNA Nanocages to Inner Gold Nanoparticle Surfaces. <i>ACS Nano</i> , <b>2019</b> , 13, 4174-4182	16.7	25
181	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> , <b>2019</b> , 186, 613	5.8	14
180	Aptamer as a Tool for Investigating the Effects of Electric Field on A $\beta$ Monomer and Aggregates Using Single-Molecule Force Spectroscopy. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 1954-1961	7.8	10
179	Optical fiber amplifier for quantitative and sensitive point-of-care testing of myoglobin and miRNA-141. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 129, 87-92	11.8	22
178	Gold nanoparticle-based 2SO-methyl modified DNA probes for breast cancerous theranostics. <i>Talanta</i> , <b>2018</b> , 183, 11-17	6.2	11
177	Controlled formation of Ag <sub>2</sub> S/Ag Janus nanoparticles using alkylamine as reductant surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 544, 111-117	5.1	10

176	Enhanced Imaging of Specific Cell-Surface Glycosylation Based on Multi-FRET. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 6131-6137	7.8	26
175	A simple and sensitive assay for apurinic/aprimidinic endonuclease 1 activity based on host-guest interaction of $\beta$ -cyclodextrin polymer and pyrene. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 973-976	8.1	3
174	Selection of Aptamers for Hydrophobic Drug Docetaxel To Improve Its Solubility. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 168-174	4.1	3
173	Flexible Assembly of an Enzyme Cascade on a DNA Triangle Prism Nanostructure for the Controlled Biomimetic Generation of Nitric Oxide. <i>ChemBioChem</i> , <b>2018</b> , 19, 2099-2106	3.8	7
172	Self-Assembled Supramolecular Nanoparticles for Targeted Delivery and Combination Chemotherapy. <i>ChemMedChem</i> , <b>2018</b> , 13, 2037-2044	3.7	14
171	A DNA nanowire based localized catalytic hairpin assembly reaction for microRNA imaging in live cells. <i>Chemical Science</i> , <b>2018</b> , 9, 7802-7808	9.4	85
170	Hairpin-fuelled catalytic nanobeacons for amplified microRNA imaging in live cells. <i>Chemical Communications</i> , <b>2018</b> , 54, 10336-10339	5.8	26
169	Live-Cell MicroRNA Imaging through MnO Nanosheet-Mediated DD-A Hybridization Chain Reaction. <i>ChemBioChem</i> , <b>2018</b> , 19, 147-152	3.8	18
168	Investigation of the interactions between aptamer and misfolded proteins: From monomer and oligomer to fibril by single-molecule force spectroscopy. <i>Journal of Molecular Recognition</i> , <b>2018</b> , 31, e2686	3.6	4
167	Two-Color-Based Nanoflares for Multiplexed MicroRNAs Imaging in Live Cells. <i>Nanotheranostics</i> , <b>2018</b> , 2, 96-105	5.6	23
166	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> , <b>2018</b> , 90, 12584-12591	7.8	52
165	Integration of cell-free protein synthesis and purification in one microfluidic chip for on-demand production of recombinant protein. <i>Biomicrofluidics</i> , <b>2018</b> , 12, 054102	3.2	6
164	Detection of Nucleic Acids in Complex Samples via Magnetic Microbead-Assisted Catalyzed Hairpin Assembly and "DD-A" FRET. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 7164-7170	7.8	33
163	Protein- driven disassembly of surfactant- polyelectrolyte nanomicelles: Modulation of quantum dot/fluorochrome FRET for pattern sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 272, 393-399	8.5	5
162	A light-up fluorescence assay for tumor cell detection based on bifunctional split aptamers. <i>Analyst</i> , <b>2018</b> , 143, 3579-3585	5	15
161	Development of Dual-Aptamers for Constructing Sandwich-Type Pancreatic Polypeptide Assay. <i>ACS Sensors</i> , <b>2017</b> , 2, 308-315	9.2	18
160	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> , <b>2017</b> , 89, 3370-3377	7.8	13
159	Design of a Modular DNA Triangular-Prism Sensor Enabling Ratiometric and Multiplexed Biomolecule Detection on a Single Microbead. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 3590-3596	7.8	13

158	Self-assembled DNA nanocentipedes as multivalent vehicles for enhanced delivery of CpG oligonucleotides. <i>Chemical Communications</i> , <b>2017</b> , 53, 5565-5568	5.8	28
157	Gold Nanoparticle Based Hairpin-Locked-DNAzyme Probe for Amplified miRNA Imaging in Living Cells. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 5850-5856	7.8	92
156	Acceleration of Hen Egg White Lysozyme Amyloid Fibrillation by Single- or Few-Layer Molybdenum Disulfide Nanosheets. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 2892-2898	1.3	4
155	Pattern recognition of enrichment levels of SELEX-based candidate aptamers for human C-reactive protein. <i>Biomedizinische Technik</i> , <b>2017</b> , 62, 333-338	1.3	
154	An isothermal electrochemical biosensor for the sensitive detection of microRNA based on a catalytic hairpin assembly and supersandwich amplification. <i>Analyst, The</i> , <b>2017</b> , 142, 389-396	5	41
153	Scallop-Inspired DNA Nanomachine: A Ratiometric Nanothermometer for Intracellular Temperature Sensing. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 12115-12122	7.8	39
152	High sensitivity surface plasmon resonance biosensor for detection of microRNA based on gold nanoparticles-decorated molybdenum sulfide. <i>Analytica Chimica Acta</i> , <b>2017</b> , 993, 55-62	6.6	47
151	Gold Nanoparticle Loaded Split-DNAzyme Probe for Amplified miRNA Detection in Living Cells. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 8377-8383	7.8	105
150	Self-assembled DNA nanowires as quantitative dual-drug nanocarriers for antitumor chemophotodynamic combination therapy. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 7529-7537	7.3	20
149	DNA tetrahedron nanostructures for biological applications: biosensors and drug delivery. <i>Analyst, The</i> , <b>2017</b> , 142, 3322-3332	5	81
148	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> , <b>2017</b> , 89, 9347-9353	7.8	22
147	High sensitivity surface plasmon resonance biosensor for detection of microRNA and small molecule based on graphene oxide-gold nanoparticles composites. <i>Talanta</i> , <b>2017</b> , 174, 521-526	6.2	63
146	Surface plasmon resonance biosensor for sensitive detection of microRNA and cancer cell using multiple signal amplification strategy. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 87, 433-438	11.8	115
145	MnO nanosheet mediated "DD-A" FRET binary probes for sensitive detection of intracellular mRNA. <i>Chemical Science</i> , <b>2017</b> , 8, 668-673	9.4	59
144	Application of Nucleic Acid Aptamers in Polypeptides Researches. <i>Chinese Journal of Analytical Chemistry</i> , <b>2017</b> , 45, 1795-1803	1.6	1
143	Surface plasmon resonance biosensor for enzyme-free amplified microRNA detection based on gold nanoparticles and DNA supersandwich. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 223, 613-620	8.5	84
142	Use of 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> , <b>2016</b> , 142, 224-228	5	17
141	Self-Assembled DNA Nanocentipede as Multivalent Drug Carrier for Targeted Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 25733-25740	9.5	54

140	"Sense-and-Treat" DNA Nanodevice for Synergetic Destruction of Circulating Tumor Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 26552-26558	9.5	38
139	Red blood cell membrane-mediated fusion of hydrophobic quantum dots with living cell membranes for cell imaging. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 4191-4197	7.3	18
138	Programmable Self-Assembly of DNA-Protein Hybrid Hydrogel for Enzyme Encapsulation with Enhanced Biological Stability. <i>Biomacromolecules</i> , <b>2016</b> , 17, 1543-50	6.9	35
137	Intelligent Nucleic Acid Functionalized Dual-Responsive Gold Nanoflare: Logic-Gate Nanodevice Visualized by Single-Nanoparticle Imaging. <i>ChemistrySelect</i> , <b>2016</b> , 1, 347-353	1.8	8
136	Detection of C-reactive protein using nanoparticle-enhanced surface plasmon resonance using an aptamer-antibody sandwich assay. <i>Chemical Communications</i> , <b>2016</b> , 52, 3568-71	5.8	84
135	Fluorescence resonance energy transfer-based hybridization chain reaction for visualization of tumor-related mRNA. <i>Chemical Science</i> , <b>2016</b> , 7, 3829-3835	9.4	70
134	Dopamine modulated ionic permeability in mesoporous silica sphere based biomimetic compartment. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 142, 266-271	6	1
133	Amplified fluorescence detection of adenosine via catalyzed hairpin assembly and host-guest interactions between $\beta$ -cyclodextrin polymer and pyrene. <i>Analyst, The</i> , <b>2016</b> , 141, 2502-7	5	18
132	A DNA tetrahedron-based molecular beacon for tumor-related mRNA detection in living cells. <i>Chemical Communications</i> , <b>2016</b> , 52, 2346-9	5.8	82
131	Steric hindrance regulated supramolecular assembly between $\beta$ -cyclodextrin polymer and pyrene for alkaline phosphatase fluorescent sensing. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2016</b> , 156, 131-7	4.4	10
130	A signal-on split aptasensor for highly sensitive and specific detection of tumor cells based on FRET. <i>Chemical Communications</i> , <b>2016</b> , 52, 1590-3	5.8	40
129	Graphene oxide-gold nanoparticles hybrids-based surface plasmon resonance for sensitive detection of microRNA. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 77, 1001-7	11.8	104
128	A supersandwich fluorescence in situ hybridization strategy for highly sensitive and selective mRNA imaging in tumor cells. <i>Chemical Communications</i> , <b>2016</b> , 52, 370-3	5.8	22
127	Elucidation of the effect of aptamer immobilization strategies on the interaction between cell and its aptamer using atomic force spectroscopy. <i>Journal of Molecular Recognition</i> , <b>2016</b> , 29, 151-8	2.6	7
126	Competition-Mediated FRET-Switching DNA Tetrahedron Molecular Beacon for Intracellular Molecular Detection. <i>ACS Sensors</i> , <b>2016</b> , 1, 1445-1452	9.2	45
125	Metallurgical leaching of metal powder for facile and generalized synthesis of metal sulfide nanocrystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2016</b> , 497, 344-351	5.1	5
124	A cell-surface-anchored ratiometric i-motif sensor for extracellular pH detection. <i>Chemical Communications</i> , <b>2016</b> , 52, 7818-21	5.8	47
123	Biomimetic synthesis of highly biocompatible gold nanoparticles with amino acid-dithiocarbamate as a precursor for SERS imaging. <i>Nanotechnology</i> , <b>2016</b> , 27, 105603	3.4	7

122	Proof of concept for inhibiting metastasis: circulating tumor cell-triggered localized release of anticancer agent via a structure-switching aptamer. <i>Chemical Communications</i> , <b>2016</b> , 52, 6789-92	5.8	18
121	A simple label-free aptamer-based method for C-reactive protein detection. <i>Analytical Methods</i> , <b>2016</b> , 8, 4177-4180	3.2	17
120	Powerful Amplification Cascades of FRET-Based Two-Layer Nonenzymatic Nucleic Acid Circuits. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 5857-64	7.8	51
119	Investigation of newly identified G-quadruplexes and their application to DNA detection. <i>Analyst, The</i> , <b>2016</b> , 141, 4463-9	5	8
118	Aptazyme-Gold Nanoparticle Sensor for Amplified Molecular Probing in Living Cells. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 5981-7	7.8	83
117	Aptamer-based FRET nanoflares for imaging potassium ions in living cells. <i>Chemical Communications</i> , <b>2016</b> , 52, 11386-11389	5.8	46
116	Quantum dot/methylene blue FRET mediated NIR fluorescent nanomicelles with large Stokes shift for bioimaging. <i>Chemical Communications</i> , <b>2015</b> , 51, 14357-60	5.8	21
115	A recognition-before-labeling strategy for sensitive detection of lung cancer cells with a quantum dot-aptamer complex. <i>Analyst, The</i> , <b>2015</b> , 140, 6100-7	5	18
114	FRET Nanoflares for Intracellular mRNA Detection: Avoiding False Positive Signals and Minimizing Effects of System Fluctuations. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 8340-3	16.4	225
113	Amplified fluorescence detection of DNA based on catalyzed dynamic assembly and host-guest interaction between $\beta$ -cyclodextrin polymer and pyrene. <i>Talanta</i> , <b>2015</b> , 144, 529-34	6.2	11
112	Cell-SELEX based selection and optimization of DNA aptamers for specific recognition of human cholangiocarcinoma QBC-939 cells. <i>Analyst, The</i> , <b>2015</b> , 140, 5992-7	5	12
111	Multiple amplification detection of microRNA based on the host-guest interaction between $\beta$ -cyclodextrin polymer and pyrene. <i>Analyst, The</i> , <b>2015</b> , 140, 4291-7	5	7
110	Discrimination of hemoglobins with subtle differences using an aptamer based sensing array. <i>Chemical Communications</i> , <b>2015</b> , 51, 8304-6	5.8	14
109	An enzyme-free colorimetric assay using hybridization chain reaction amplification and split aptamers. <i>Analyst, The</i> , <b>2015</b> , 140, 7657-62	5	15
108	P(VPBA-DMAEA) as a pH-sensitive nanovalve for mesoporous silica nanoparticles based controlled release. <i>Chinese Chemical Letters</i> , <b>2015</b> , 26, 1203-1208	8.1	14
107	Ratiometric fluorescent sensing of pH values in living cells by dual-fluorophore-labeled i-motif nanopores. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 8724-31	7.8	101
106	A sensitive detection of T4 polynucleotide kinase activity based on $\beta$ -cyclodextrin polymer enhanced fluorescence combined with an exonuclease reaction. <i>Chemical Communications</i> , <b>2015</b> , 51, 1815-8	5.8	38
105	An enzyme-free and amplified colorimetric detection strategy via target-aptamer binding triggered catalyzed hairpin assembly. <i>Chemical Communications</i> , <b>2015</b> , 51, 937-40	5.8	36



104	Phosphate modulated permeability of mesoporous silica spheres: a biomimetic ion channel decorated compartment model. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 323-329	7.3	4
103	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> , <b>2015</b> , 136 Pt B, 283-7	4.4	35
102	Sensitive point-of-care monitoring of cardiac biomarker myoglobin using aptamer and ubiquitous personal glucose meter. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 64, 161-4	11.8	61
101	Visual detection of myoglobin via G-quadruplex DNAzyme functionalized gold nanoparticles-based colorimetric biosensor. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 212, 440-445	8.5	43
100	Tuning transport selectivity of ionic species by phosphoric acid gradient in positively charged nanochannel membranes. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 1544-51	7.8	13
99	An enzyme-free and amplified colorimetric detection strategy: assembly of gold nanoparticles through target-catalytic circuits. <i>Analyst, The</i> , <b>2015</b> , 140, 1004-7	5	21
98	Exciton energy transfer-based quantum dot fluorescence sensing array: "chemical noses" for discrimination of different nucleobases. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 876-83	7.8	36
97	A multiple amplification strategy for nucleic acid detection based on host-guest interaction between the Cyclodextrin polymer and pyrene. <i>Analyst, The</i> , <b>2015</b> , 140, 2016-22	5	15
96	Evaluation of medicine effects on the interaction of myoglobin and its aptamer or antibody using atomic force microscopy. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 2242-8	7.8	22
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