Xiaohai Yang

List of Publications by Year in descending order

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		44069	54911
232	9,290	48	84
papers	citations	h-index	g-index
233	233	233	9144
all docs	docs citations	times ranked	citing authors

ΧΙΛΟΗΛΙ ΥΛΝΟ

#	Article	IF	CITATIONS
1	Preparation and antibacterial activity of Fe3O4@Ag nanoparticles. Nanotechnology, 2007, 18, 285604.	2.6	486
2	Pyreneâ€Excimer Probes Based on the Hybridization Chain Reaction for the Detection of Nucleic Acids in Complex Biological Fluids. Angewandte Chemie - International Edition, 2011, 50, 401-404.	13.8	486
3	Enzyme-Free Colorimetric Detection of DNA by Using Gold Nanoparticles and Hybridization Chain Reaction Amplification. Analytical Chemistry, 2013, 85, 7689-7695.	6.5	294
4	FRET Nanoflares for Intracellular mRNA Detection: Avoiding False Positive Signals and Minimizing Effects of System Fluctuations. Journal of the American Chemical Society, 2015, 137, 8340-8343.	13.7	285
5	Activatable aptamer probe for contrast-enhanced in vivo cancer imaging based on cell membrane protein-triggered conformation alteration. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3900-3905.	7.1	283
6	Sensitive fluorescence detection of nucleic acids based on isothermal circular strand-displacement polymerization reaction. Nucleic Acids Research, 2009, 37, e20-e20.	14.5	211
7	Functionalized Silica Nanoparticles: A Platform for Fluorescence Imaging at the Cell and Small Animal Levels. Accounts of Chemical Research, 2013, 46, 1367-1376.	15.6	159
8	Direct quantification of cancerous exosomes via surface plasmon resonance with dual gold nanoparticle-assisted signal amplification. Biosensors and Bioelectronics, 2019, 135, 129-136.	10.1	154
9	Surface plasmon resonance biosensor for sensitive detection of microRNA and cancer cell using multiple signal amplification strategy. Biosensors and Bioelectronics, 2017, 87, 433-438.	10.1	141
10	Gold Nanoparticle Loaded Split-DNAzyme Probe for Amplified miRNA Detection in Living Cells. Analytical Chemistry, 2017, 89, 8377-8383.	6.5	140
11	Graphene oxide–gold nanoparticles hybrids-based surface plasmon resonance for sensitive detection of microRNA. Biosensors and Bioelectronics, 2016, 77, 1001-1007.	10.1	130
12	Gold Nanoparticle Based Hairpin-Locked-DNAzyme Probe for Amplified miRNA Imaging in Living Cells. Analytical Chemistry, 2017, 89, 5850-5856.	6.5	124
13	One-step engineering of silver nanoclusters–aptamer assemblies as luminescent labels to target tumor cells. Nanoscale, 2012, 4, 110-112.	5.6	123
14	Detection of C-reactive protein using nanoparticle-enhanced surface plasmon resonance using an aptamer-antibody sandwich assay. Chemical Communications, 2016, 52, 3568-3571.	4.1	117
15	A DNA nanowire based localized catalytic hairpin assembly reaction for microRNA imaging in live cells. Chemical Science, 2018, 9, 7802-7808.	7.4	117
16	DNA tetrahedron nanostructures for biological applications: biosensors and drug delivery. Analyst, The, 2017, 142, 3322-3332.	3.5	115
17	Ratiometric Fluorescent Sensing of pH Values in Living Cells by Dual-Fluorophore-Labeled i-Motif Nanoprobes. Analytical Chemistry, 2015, 87, 8724-8731.	6.5	113
18	Aptazyme–Gold Nanoparticle Sensor for Amplified Molecular Probing in Living Cells. Analytical Chemistry, 2016, 88, 5981-5987.	6.5	106

#	Article	IF	CITATIONS
19	Surface plasmon resonance biosensor for enzyme-free amplified microRNA detection based on gold nanoparticles and DNA supersandwich. Sensors and Actuators B: Chemical, 2016, 223, 613-620.	7.8	101
20	Enzyme-mediated nitric oxide production in vasoactive erythrocyte membrane-enclosed coacervate protocells. Nature Chemistry, 2020, 12, 1165-1173.	13.6	101
21	A switchable fluorescent quantum dot probe based on aggregation/disaggregation mechanism. Chemical Communications, 2011, 47, 935-937.	4.1	94
22	A DNA tetrahedron-based molecular beacon for tumor-related mRNA detection in living cells. Chemical Communications, 2016, 52, 2346-2349.	4.1	94
23	Different Active Biomolecules Involved in Biosynthesis of Gold Nanoparticles by Three Fungus Species. Journal of Biomedical Nanotechnology, 2011, 7, 245-254.	1.1	93
24	Screening of DNA Aptamers against Myoglobin Using a Positive and Negative Selection Units Integrated Microfluidic Chip and Its Biosensing Application. Analytical Chemistry, 2014, 86, 6572-6579.	6.5	88
25	Fluorescence resonance energy transfer-based hybridization chain reaction for in situ visualization of tumor-related mRNA. Chemical Science, 2016, 7, 3829-3835.	7.4	85
26	High sensitivity surface plasmon resonance biosensor for detection of microRNA and small molecule based on graphene oxide-gold nanoparticles composites. Talanta, 2017, 174, 521-526.	5.5	85
27	Point-of-Care Assay of Alkaline Phosphatase Enzymatic Activity Using a Thermometer or Temperature Discoloration Sticker as Readout. Analytical Chemistry, 2019, 91, 7943-7949.	6.5	82
28	Giant Coacervate Vesicles As an Integrated Approach to Cytomimetic Modeling. Journal of the American Chemical Society, 2021, 143, 2866-2874.	13.7	82
29	Self-Assembled DNA Nanocentipede as Multivalent Drug Carrier for Targeted Delivery. ACS Applied Materials & Interfaces, 2016, 8, 25733-25740.	8.0	80
30	Low-Fouling Surface Plasmon Resonance Sensor for Highly Sensitive Detection of MicroRNA in a Complex Matrix Based on the DNA Tetrahedron. Analytical Chemistry, 2018, 90, 12584-12591.	6.5	80
31	MnO ₂ nanosheet mediated "DD–A―FRET binary probes for sensitive detection of intracellular mRNA. Chemical Science, 2017, 8, 668-673.	7.4	76
32	Dual-microRNA-controlled double-amplified cascaded logic DNA circuits for accurate discrimination of cell subtypes. Chemical Science, 2019, 10, 1442-1449.	7.4	73
33	Construction of coacervate-in-coacervate multi-compartment protocells for spatial organization of enzymatic reactions. Chemical Science, 2020, 11, 8617-8625.	7.4	73
34	Sensitive point-of-care monitoring of cardiac biomarker myoglobin using aptamer and ubiquitous personal glucose meter. Biosensors and Bioelectronics, 2015, 64, 161-164.	10.1	71
35	Recent advances in fluorescent nucleic acid probes for living cell studies. Analyst, The, 2013, 138, 62-71.	3.5	62
36	High sensitivity surface plasmon resonance biosensor for detection of microRNA based on gold nanoparticles-decorated molybdenum sulfide. Analytica Chimica Acta, 2017, 993, 55-62.	5.4	62

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37	Enhanced surface plasmon resonance with the modified catalytic growth of Au nanoparticles. Biosensors and Bioelectronics, 2007, 22, 1106-1110.	10.1	61
38	Amplified FRET Nanoflares: An Endogenous mRNAâ€Powered Nanomachine for Intracellular MicroRNA Imaging. Angewandte Chemie - International Edition, 2020, 59, 20104-20111.	13.8	61
39	Real-time monitoring of uracil removal by uracil–DNA glycosylase using fluorescent resonance energy transfer probes. Analytical Biochemistry, 2007, 366, 237-243.	2.4	60
40	Competition-Mediated FRET-Switching DNA Tetrahedron Molecular Beacon for Intracellular Molecular Detection. ACS Sensors, 2016, 1, 1445-1452.	7.8	56
41	Powerful Amplification Cascades of FRET-Based Two-Layer Nonenzymatic Nucleic Acid Circuits. Analytical Chemistry, 2016, 88, 5857-5864.	6.5	56
42	Visual detection of myoglobin via G-quadruplex DNAzyme functionalized gold nanoparticles-based colorimetric biosensor. Sensors and Actuators B: Chemical, 2015, 212, 440-445.	7.8	55
43	Aptamer-based FRET nanoflares for imaging potassium ions in living cells. Chemical Communications, 2016, 52, 11386-11389.	4.1	55
44	Aptamer-based analysis of angiogenin by fluorescence anisotropy. Analyst, The, 2007, 132, 107-113.	3.5	54
45	Exciton Energy Transfer-Based Fluorescent Sensing through Aptamer-Programmed Self-Assembly of Quantum Dots. Analytical Chemistry, 2013, 85, 11121-11128.	6.5	54
46	A cell-surface-anchored ratiometric i-motif sensor for extracellular pH detection. Chemical Communications, 2016, 52, 7818-7821.	4.1	54
47	Detection of Nucleic Acids in Complex Samples via Magnetic Microbead-Assisted Catalyzed Hairpin Assembly and "DD–A―FRET. Analytical Chemistry, 2018, 90, 7164-7170.	6.5	54
48	A novel kinase-based ATP assay using molecular beacon. Analytical Biochemistry, 2008, 372, 131-133.	2.4	52
49	Label-free and non-enzymatic detection of DNA based on hybridization chain reaction amplification and dsDNA-templated copper nanoparticles. Analytica Chimica Acta, 2014, 827, 74-79.	5.4	51
50	"Sense-and-Treat―DNA Nanodevice for Synergetic Destruction of Circulating Tumor Cells. ACS Applied Materials & Interfaces, 2016, 8, 26552-26558.	8.0	51
51	Amplified detection of cocaine based on strand-displacement polymerization and fluorescence resonance energy transfer. Biosensors and Bioelectronics, 2011, 28, 450-453.	10.1	48
52	Programmable Self-Assembly of DNA–Protein Hybrid Hydrogel for Enzyme Encapsulation with Enhanced Biological Stability. Biomacromolecules, 2016, 17, 1543-1550.	5.4	48
53	Scallop-Inspired DNA Nanomachine: A Ratiometric Nanothermometer for Intracellular Temperature Sensing. Analytical Chemistry, 2017, 89, 12115-12122.	6.5	48
54	Competitive Host–Guest Interaction between β-Cyclodextrin Polymer and Pyrene-Labeled Probes for Fluorescence Analyses. Analytical Chemistry, 2015, 87, 2665-2671.	6.5	47

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55	An isothermal electrochemical biosensor for the sensitive detection of microRNA based on a catalytic hairpin assembly and supersandwich amplification. Analyst, The, 2017, 142, 389-396.	3.5	47
56	Real-time monitoring of restriction endonuclease activity using molecular beacon. Analytical Biochemistry, 2007, 363, 294-296.	2.4	46
57	A signal-on split aptasensor for highly sensitive and specific detection of tumor cells based on FRET. Chemical Communications, 2016, 52, 1590-1593.	4.1	45
58	Multiplex detection of nucleic acids using a low cost microfluidic chip and a personal glucose meter at the point-of-care. Chemical Communications, 2014, 50, 3824-3826.	4.1	44
59	Self-Assembled Supramolecular Nanoprobes for Ratiometric Fluorescence Measurement of Intracellular pH Values. Analytical Chemistry, 2015, 87, 2459-2465.	6.5	43
60	Three-Dimensional Molecular Transfer from DNA Nanocages to Inner Gold Nanoparticle Surfaces. ACS Nano, 2019, 13, 4174-4182.	14.6	43
61	Colorimetric detection of mercury ion based on unmodified gold nanoparticles and target-triggered hybridization chain reaction amplification. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 283-287.	3.9	42
62	Molecular Beacon Based Bioassay for Highly Sensitive and Selective Detection of Nicotinamide Adenine Dinucleotide and the Activity of Alanine Aminotransferase. Analytical Chemistry, 2011, 83, 2505-2510.	6.5	41
63	Surface plasmon resonance detection of small molecule using split aptamer fragments. Sensors and Actuators B: Chemical, 2011, 156, 893-898.	7.8	41
64	An electrochemical DNA biosensor based on the "Y―junction structure and restriction endonuclease-aided target recycling strategy. Chemical Communications, 2012, 48, 2982.	4.1	41
65	A sensitive one-step method for quantitative detection of α-amylase in serum and urine using a personal glucose meter. Analyst, The, 2015, 140, 1161-1165.	3.5	41
66	A sensitive detection of T4 polynucleotide kinase activity based on β-cyclodextrin polymer enhanced fluorescence combined with an exonuclease reaction. Chemical Communications, 2015, 51, 1815-1818.	4.1	41
67	Enhanced Imaging of Specific Cell-Surface Glycosylation Based on Multi-FRET. Analytical Chemistry, 2018, 90, 6131-6137.	6.5	41
68	Electrical Switching of DNA Monolayers Investigated by Surface Plasmon Resonance. Langmuir, 2006, 22, 5654-5659.	3.5	40
69	Fluorescent nanoparticles for chemical and biological sensing. Science China Chemistry, 2011, 54, 1157-1176.	8.2	40
70	I-motif-based nano-flares for sensing pH changes in live cells. Chemical Communications, 2014, 50, 15768-15771.	4.1	40
71	Design and bioanalytical applications of DNA hairpin-based fluorescent probes. TrAC - Trends in Analytical Chemistry, 2014, 53, 11-20.	11.4	39
72	FRET-based aptamer probe for rapid angiogenin detection. Talanta, 2008, 75, 770-774.	5.5	38

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73	Real-Time Imaging of Protein Internalization Using Aptamer Conjugates. Analytical Chemistry, 2008, 80, 5002-5008.	6.5	38
74	Aggregation Control of Quantum Dots through Ion-Mediated Hydrogen Bonding Shielding. ACS Nano, 2012, 6, 4973-4983.	14.6	38
75	DNA aptamer-based surface plasmon resonance sensing of human C-reactive protein. RSC Advances, 2014, 4, 30934-30937.	3.6	38
76	Two-Color-Based Nanoflares for Multiplexed MicroRNAs Imaging in Live Cells. Nanotheranostics, 2018, 2, 96-105.	5.2	38
77	Enhanced surface plasmon resonance for detection of DNA hybridization based on layer-by-layer assembly films. Sensors and Actuators B: Chemical, 2007, 123, 227-232.	7.8	37
78	Proximity-dependent protein detection based on enzyme-assisted fluorescence signal amplification. Biosensors and Bioelectronics, 2014, 51, 255-260.	10.1	37
79	Exciton Energy Transfer-Based Quantum Dot Fluorescence Sensing Array: "Chemical Noses―for Discrimination of Different Nucleobases. Analytical Chemistry, 2015, 87, 876-883.	6.5	37
80	An enzyme-free and amplified colorimetric detection strategy via target–aptamer binding triggered catalyzed hairpin assembly. Chemical Communications, 2015, 51, 937-940.	4.1	37
81	Novel separation and preconcentration of trace amounts of copper(II) in water samples based on neocuproine modified magnetic microparticles. Analytica Chimica Acta, 2005, 550, 18-23.	5.4	33
82	Self-assembled DNA nanocentipedes as multivalent vehicles for enhanced delivery of CpG oligonucleotides. Chemical Communications, 2017, 53, 5565-5568.	4.1	33
83	Hairpin-fuelled catalytic nanobeacons for amplified microRNA imaging in live cells. Chemical Communications, 2018, 54, 10336-10339.	4.1	33
84	Photostable Luminescent Nanoparticles as Biological Label for Cell Recognition of System Lupus Erythematosus Patients. Journal of Nanoscience and Nanotechnology, 2002, 2, 317-320.	0.9	32
85	Real-time monitoring of DNA polymerase activity using molecular beacon. Analytical Biochemistry, 2006, 353, 141-143.	2.4	31
86	Inorganic fluorescent nanoprobes for cellular and subcellular imaging. TrAC - Trends in Analytical Chemistry, 2014, 58, 120-129.	11.4	31
87	Surface plasmon resonance assay for exosomes based on aptamer recognition and polydopamine-functionalized gold nanoparticles for signal amplification. Mikrochimica Acta, 2020, 187, 251.	5.0	31
88	Nucleic acids detection using cationic fluorescent polymer based on one-dimensional microfluidic beads array. Talanta, 2009, 77, 1027-1031.	5.5	29
89	Evaluation of Medicine Effects on the Interaction of Myoglobin and Its Aptamer or Antibody Using Atomic Force Microscopy. Analytical Chemistry, 2015, 87, 2242-2248.	6.5	29
90	Exploring Interactions of Aptamers with Aβ ₄₀ Amyloid Aggregates and Its Application: Detection of Amyloid Aggregates. Analytical Chemistry, 2020, 92, 2853-2858.	6.5	29

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91	FRET-based nucleic acid probes: Basic designs and applications in bioimaging. TrAC - Trends in Analytical Chemistry, 2020, 124, 115784.	11.4	29
92	Use of mercaptophenylboronic acid functionalized gold nanoparticles in a sensitive and selective dynamic light scattering assay for glucose detection in serum. Analyst, The, 2013, 138, 5146.	3.5	28
93	Single-Walled Carbon Nanotubes (SWCNTs)-Assisted Cell-Systematic Evolution of Ligands by Exponential Enrichment (Cell-SELEX) for Improving Screening Efficiency. Analytical Chemistry, 2014, 86, 9466-9472.	6.5	28
94	High Signal-to-Background Ratio Detection of Cancer Cells with Activatable Strategy Based on Target-Induced Self-Assembly of Split Aptamers. Analytical Chemistry, 2017, 89, 9347-9353.	6.5	28
95	Optical fiber amplifier for quantitative and sensitive point-of-care testing of myoglobin and miRNA-141. Biosensors and Bioelectronics, 2019, 129, 87-92.	10.1	28
96	Atomic force microscopy investigation of the characteristic effects of silver ions on Escherichia coli and Staphylococcus epidermidis. Talanta, 2010, 81, 1508-1512.	5.5	27
97	A novel fluorescent detection for PDGF-BB based on dsDNA-templated copper nanoparticles. Chinese Chemical Letters, 2014, 25, 9-14.	9.0	27
98	Quantum dot/methylene blue FRET mediated NIR fluorescent nanomicelles with large Stokes shift for bioimaging. Chemical Communications, 2015, 51, 14357-14360.	4.1	27
99	Ratiometric Fluorescent DNA Nanostructure for Mitochondrial ATP Imaging in Living Cells Based on Hybridization Chain Reaction. Analytical Chemistry, 2021, 93, 6715-6722.	6.5	27
100	A supersandwich fluorescence in situ hybridization strategy for highly sensitive and selective mRNA imaging in tumor cells. Chemical Communications, 2016, 52, 370-373.	4.1	26
101	Self-assembled DNA nanowires as quantitative dual-drug nanocarriers for antitumor chemophotodynamic combination therapy. Journal of Materials Chemistry B, 2017, 5, 7529-7537.	5.8	26
102	DNA Hydrogelation-Enhanced Imaging Ellipsometry for Sensing Exosomal microRNAs with a Tunable Detection Range. Analytical Chemistry, 2020, 92, 11953-11959.	6.5	25
103	Electrochemical biosensors for detection of point mutation based on surface ligation reaction and oligonucleotides modified gold nanoparticles. Analytica Chimica Acta, 2011, 688, 163-167.	5.4	24
104	Combining physical embedding and covalent bonding for stable encapsulation of quantum dots into agarose hydrogels. Journal of Materials Chemistry, 2012, 22, 495-501.	6.7	24
105	A novel sensitive and selective ligation-based ATP assay using a molecular beacon. Analyst, The, 2013, 138, 3013.	3.5	24
106	Ratiometric determination of human papillomavirus-16 DNA by using fluorescent DNA-templated silver nanoclusters and hairpin-blocked DNAzyme-assisted cascade amplification. Mikrochimica Acta, 2019, 186, 613.	5.0	24
107	On-chip oligonucleotide ligation assay using one-dimensional microfluidic beads array for the detection of low-abundant DNA point mutations. Biosensors and Bioelectronics, 2008, 23, 945-951.	10.1	23
108	A recognition-before-labeling strategy for sensitive detection of lung cancer cells with a quantum dot–aptamer complex. Analyst, The, 2015, 140, 6100-6107.	3.5	23

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109	Red blood cell membrane-mediated fusion of hydrophobic quantum dots with living cell membranes for cell imaging. Journal of Materials Chemistry B, 2016, 4, 4191-4197.	5.8	22
110	A one-step sensitive dynamic light scattering method for adenosine detection using split aptamer fragments. Analytical Methods, 2011, 3, 59-61.	2.7	21
111	Single Nanoparticle Imaging and Characterization of Different Phospholipid-Encapsulated Quantum Dot Micelles. Langmuir, 2012, 28, 10602-10609.	3.5	21
112	An enzyme-free and amplified colorimetric detection strategy: assembly of gold nanoparticles through target-catalytic circuits. Analyst, The, 2015, 140, 1004-1007.	3.5	21
113	A simple label-free aptamer-based method for C-reactive protein detection. Analytical Methods, 2016, 8, 4177-4180.	2.7	21
114	Controlled dimerization of artificial membrane receptors for transmembrane signal transduction. Chemical Science, 2021, 12, 8224-8230.	7.4	21
115	One-dimensional microfluidic beads array for multiple mRNAs expression detection. Biosensors and Bioelectronics, 2007, 22, 2759-2762.	10.1	20
116	A new strategy for designing a graphene oxide-based DNA hairpin probe: fluorescence upon switching the orientation of the sticky end. Chemical Communications, 2013, 49, 9827.	4.1	20
117	Sensitive detection of DNA methyltransferase activity based on rolling circle amplification technology. Chinese Chemical Letters, 2014, 25, 1047-1051.	9.0	20
118	Discrimination of hemoglobins with subtle differences using an aptamer based sensing array. Chemical Communications, 2015, 51, 8304-8306.	4.1	20
119	Design of a Modular DNA Triangular-Prism Sensor Enabling Ratiometric and Multiplexed Biomolecule Detection on a Single Microbead. Analytical Chemistry, 2017, 89, 3590-3596.	6.5	20
120	Liveâ€Cell MicroRNA Imaging through MnO ₂ Nanosheetâ€Mediated DDâ€A Hybridization Chain Reaction. ChemBioChem, 2018, 19, 147-152.	2.6	20
121	Selfâ€Assembled Supramolecular Nanoparticles for Targeted Delivery and Combination Chemotherapy. ChemMedChem, 2018, 13, 2037-2044.	3.2	20
122	Near-infrared photothermal release of hydrogen sulfide from nanocomposite hydrogels for anti-inflammation applications. Chinese Chemical Letters, 2020, 31, 787-791.	9.0	20
123	Development of DNA Aptamer as a β-Amyloid Aggregation Inhibitor. ACS Applied Bio Materials, 2020, 3, 8611-8618.	4.6	20
124	Invasion and Defense Interactions between Enzymeâ€Active Liquid Coacervate Protocells and Living Cells. Small, 2020, 16, e2002073.	10.0	20
125	Preconcentration and separation of ultra-trace beryllium using quinalizarine-modified magnetic microparticles. Analytica Chimica Acta, 2009, 646, 123-127.	5.4	19
126	Chemical etching with tetrafluoroborate: a facile method for resizing of CdTe nanocrystals under mild conditions. Chemical Communications, 2009, , 6080.	4.1	19

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127	G-quadruplex fluorescence quenching ability: a simple and efficient strategy to design a single-labeled DNA probe. Analytical Methods, 2012, 4, 895.	2.7	19
128	Proof of concept for inhibiting metastasis: circulating tumor cell-triggered localized release of anticancer agent via a structure-switching aptamer. Chemical Communications, 2016, 52, 6789-6792.	4.1	19
129	Development of Dual-Aptamers for Constructing Sandwich-Type Pancreatic Polypeptide Assay. ACS Sensors, 2017, 2, 308-315.	7.8	19
130	Realâ€Time Monitoring of Nucleic Acid Dephosphorylation by Using Molecular Beacons. ChemBioChem, 2007, 8, 1487-1490.	2.6	18
131	Split aptazyme-based catalytic molecular beacons for amplified detection of adenosine. Analyst, The, 2014, 139, 2994.	3.5	18
132	Amplified fluorescence detection of adenosine via catalyzed hairpin assembly and host–guest interactions between β-cyclodextrin polymer and pyrene. Analyst, The, 2016, 141, 2502-2507.	3.5	18
133	Use of Î ² -cyclodextrin-tethered cationic polymer based fluorescence enhancement of pyrene and hybridization chain reaction for the enzyme-free amplified detection of DNA. Analyst, The, 2017, 142, 224-228.	3.5	18
134	Solid-phase single molecule biosensing using dual-color colocalization of fluorescent quantum dot nanoprobes. Nanoscale, 2013, 5, 11257.	5.6	17
135	A light-up fluorescence assay for tumor cell detection based on bifunctional split aptamers. Analyst, The, 2018, 143, 3579-3585.	3.5	17
136	Aptamer as a Tool for Investigating the Effects of Electric Field on Aβ ₄₀ Monomer and Aggregates Using Single-Molecule Force Spectroscopy. Analytical Chemistry, 2019, 91, 1954-1961.	6.5	17
137	A DNAzyme cascade for amplified detection of intracellular miRNA. Chemical Communications, 2020, 56, 10163-10166.	4.1	17
138	A lysosome specific, acidic-pH activated, near-infrared Bodipy fluorescent probe for noninvasive, long-term, in vivo tumor imaging. Materials Science and Engineering C, 2020, 111, 110762.	7.3	17
139	Photocaged amplified FRET nanoflares: spatiotemporal controllable of mRNA-powered nanomachines for precise and sensitive microRNA imaging in live cells. Nucleic Acids Research, 2022, 50, e40-e40.	14.5	17
140	Real-time monitoring of double-stranded DNA cleavage using molecular beacons. Talanta, 2008, 76, 458-461.	5.5	16
141	Amplified electrochemical DNA sensor using peroxidase-like DNAzyme. Talanta, 2010, 83, 500-504.	5.5	16
142	An enzyme-free colorimetric assay using hybridization chain reaction amplification and split aptamers. Analyst, The, 2015, 140, 7657-7662.	3.5	16
143	Gold nanoparticle-based $2\hat{a}\in^2$ -O-methyl modified DNA probes for breast cancerous theranostics. Talanta, 2018, 183, 11-17.	5.5	16
144	Photothermal and fluorescent dual-mode assay based on the formation of polydopamine nanoparticles for accurate determination of organophosphate pesticides. Mikrochimica Acta, 2020, 187, 652.	5.0	16

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145	Photocaged FRET nanoflares for intracellular microRNA imaging. Chemical Communications, 2020, 56, 6126-6129.	4.1	16
146	Orderly Assembled, Self-Powered FRET Flares for MicroRNA Imaging in Live Cells. Analytical Chemistry, 2021, 93, 6270-6277.	6.5	16
147	Tuning Transport Selectivity of Ionic Species by Phosphoric Acid Gradient in Positively Charged Nanochannel Membranes. Analytical Chemistry, 2015, 87, 1544-1551.	6.5	15
148	A multiple amplification strategy for nucleic acid detection based on host–guest interaction between the β-cyclodextrin polymer and pyrene. Analyst, The, 2015, 140, 2016-2022.	3.5	15
149	Evaluating the Effect of Lidocaine on the Interactions of C-reactive Protein with Its Aptamer and Antibody by Dynamic Force Spectroscopy. Analytical Chemistry, 2017, 89, 3370-3377.	6.5	15
150	The mechanisms of HSA@PDA/Fe nanocomposites with enhanced nanozyme activity and their application in intracellular H ₂ O ₂ detection. Nanoscale, 2020, 12, 24206-24213.	5.6	15
151	A novel fluorescent label based on biological fluorescent nanoparticles and its application in cell recognition. Science Bulletin, 2001, 46, 1962-1965.	1.7	14
152	Improving the performance of immobilized molecular beacons through cleavage. Analytica Chimica Acta, 2006, 567, 173-178.	5.4	14
153	A label-free and sensitive supersandwich electrochemical biosensor for small molecule detection based on target-induced aptamer displacement. Analytical Methods, 2012, 4, 2221.	2.7	14
154	Aptamer-mediated indirect quantum dot labeling and fluorescent imaging of target proteins in living cells. Nanotechnology, 2014, 25, 505502.	2.6	14
155	Cell-SELEX based selection and optimization of DNA aptamers for specific recognition of human cholangiocarcinoma QBC-939 cells. Analyst, The, 2015, 140, 5992-5997.	3.5	14
156	P(VPBA-DMAEA) as a pH-sensitive nanovalve for mesoporous silica nanoparticles based controlled release. Chinese Chemical Letters, 2015, 26, 1203-1208.	9.0	14
157	Lipophilic G-Quadruplex Isomers as Biomimetic Ion Channels for Conformation-Dependent Selective Transmembrane Transport. Analytical Chemistry, 2020, 92, 10169-10176.	6.5	14
158	Detection of singleâ€base mutations using 1â€D microfluidic beads array. Electrophoresis, 2007, 28, 4668-4678.	2.4	13
159	Angiogeninâ€Mediated Photosensitizer–Aptamer Conjugate for Photodynamic Therapy. ChemMedChem, 2011, 6, 1778-1780.	3.2	13
160	Anomalous effects of water flow through charged nanochannel membranes. RSC Advances, 2014, 4, 26729-26737.	3.6	13
161	Biomimetic synthesis of highly biocompatible gold nanoparticles with amino acid-dithiocarbamate as a precursor for SERS imaging. Nanotechnology, 2016, 27, 105603.	2.6	13
162	Construction of Bio/Nanointerfaces: Stable Gold Nanoparticle Bioconjugates in Complex Systems. ACS Applied Materials & Interfaces, 2019, 11, 40817-40825.	8.0	13

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163	Aptamer-tethered self-assembled FRET-flares for microRNA imaging in living cancer cells. Chemical Communications, 2020, 56, 2463-2466.	4.1	13
164	Whole cell-SELEX aptamers for fluorescence staining of frozen hepatocellular carcinoma tissues. Analytical Methods, 2014, 6, 3506-3509.	2.7	12
165	Amplified fluorescence detection of DNA based on catalyzed dynamic assembly and host–guest interaction between β-cyclodextrin polymer and pyrene. Talanta, 2015, 144, 529-534.	5.5	12
166	Amplified FRET Nanoflares: An Endogenous mRNAâ€₽owered Nanomachine for Intracellular MicroRNA Imaging. Angewandte Chemie, 2020, 132, 20279-20286.	2.0	12
167	Amplified AND logic platform for cell identification. Chemical Communications, 2020, 56, 11267-11270.	4.1	12
168	Multichannel Mode-Filtered Light Detection Based on an Optical Fiber for Small-Volume Chemical Analysis. Analytical Chemistry, 2000, 72, 4282-4288.	6.5	11
169	pH and ion strength modulated ionic species loading in mesoporous silica nanoparticles. Nanotechnology, 2013, 24, 415501.	2.6	11
170	Investigation of newly identified G-quadruplexes and their application to DNA detection. Analyst, The, 2016, 141, 4463-4469.	3.5	11
171	Steric hindrance regulated supramolecular assembly between β-cyclodextrin polymer and pyrene for alkaline phosphatase fluorescent sensing. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 156, 131-137.	3.9	11
172	Controlled formation of Ag2S/Ag Janus nanoparticles using alkylamine as reductant surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 544, 111-117.	4.7	11
173	Flexible Assembly of an Enzyme Cascade on a DNA Triangle Prism Nanostructure for the Controlled Biomimetic Generation of Nitric Oxide. ChemBioChem, 2018, 19, 2099-2106.	2.6	11
174	Single-stranded DNA designed lipophilic G-quadruplexes as transmembrane channels for switchable potassium transport. Chemical Communications, 2019, 55, 12004-12007.	4.1	11
175	Selection of Affinity Reagents to Neutralize the Hemolytic Toxicity of Melittin Based on a Self-Assembled Nanoparticle Library. ACS Applied Materials & Interfaces, 2020, 12, 16040-16049.	8.0	11
176	Recognition of single-base mismatch DNA by Au nanoparticle-assisted electroelution. Analyst, The, 2008, 133, 1274.	3.5	10
177	Intelligent Nucleic Acid Functionalized Dualâ€Responsive Gold Nanoflare: Logicâ€Gate Nanodevice Visualized by Singleâ€Nanoparticle Imaging. ChemistrySelect, 2016, 1, 347-353.	1.5	10
178	A DNA tetrahedron-based molecular computation device for the logic sensing of dual microRNAs in living cells. Chemical Communications, 2020, 56, 5303-5306.	4.1	10
179	An ion transport switch based on light-responsive conformation-dependent G-quadruplex transmembrane channels. Chemical Communications, 2021, 57, 8214-8217.	4.1	10
180	Optical fiber amplifier and thermometer assisted point-of-care biosensor for detection of cancerous exosomes. Sensors and Actuators B: Chemical, 2022, 351, 130893.	7.8	10

#	Article	IF	CITATIONS
181	Direct fluorescence detection of point mutations in human genomic DNA using microbead-based ligase chain reaction. Talanta, 2010, 80, 1725-1729.	5.5	9
182	Recognition of candidate aptamer sequences for human hepatocellular carcinoma in SELEX screening using structure–activity relationships. Chemometrics and Intelligent Laboratory Systems, 2014, 136, 10-14.	3.5	9
183	Inhibited aptazyme-based catalytic molecular beacon for amplified detection of adenosine. Chinese Chemical Letters, 2014, 25, 1211-1214.	9.0	9
184	Elucidation of the effect of aptamer immobilization strategies on the interaction between cell and its aptamer using atomic force spectroscopy. Journal of Molecular Recognition, 2016, 29, 151-158.	2.1	9
185	Engineering and Application of a Myoglobin Binding Split Aptamer. Analytical Chemistry, 2020, 92, 14576-14581.	6.5	9
186	Self-immobilization of coacervate droplets by enzyme-mediated hydrogelation. Chemical Communications, 2021, 57, 5438-5441.	4.1	9
187	Contradictory effect of gold nanoparticle-decorated molybdenum sulfide nanocomposites on amyloid-β-40 aggregation. Chinese Chemical Letters, 2020, 31, 3113-3116.	9.0	9
188	Determination of low-level mercury based on a renewable-drops sensing technique. Fresenius' Journal of Analytical Chemistry, 2000, 368, 797-802.	1.5	8
189	Using personal uric acid meter and enzyme-DNA conjugate for portable and quantitative DNA detection. Sensors and Actuators B: Chemical, 2013, 186, 515-520.	7.8	8
190	Integration of cell-free protein synthesis and purification in one microfluidic chip for on-demand production of recombinant protein. Biomicrofluidics, 2018, 12, 054102.	2.4	8
191	Mitochondria targeted self-assembled ratiometric fluorescent nanoprobes for pH imaging in living cells. Analytical Methods, 2019, 11, 2097-2104.	2.7	8
192	DNA supersandwich assemblies as artificial receptors to mediate intracellular delivery of catalase for efficient ROS scavenging. Chemical Communications, 2019, 55, 4242-4245.	4.1	8
193	Sensitive and specific detection of tumour cells based on a multivalent DNA nanocreeper and a multiplexed fluorescence supersandwich. Chemical Communications, 2020, 56, 3693-3696.	4.1	8
194	Protein analysis based on molecular beacon probes and biofunctionalized nanoparticles. Science China Chemistry, 2010, 53, 704-719.	8.2	7
195	Probing interactions between human lung adenocarcinoma A549 cell and its aptamers at singleâ€molecule resolution. Journal of Molecular Recognition, 2014, 27, 676-682.	2.1	7
196	Multiple amplification detection of microRNA based on the host–guest interaction between β-cyclodextrin polymer and pyrene. Analyst, The, 2015, 140, 4291-4297.	3.5	7
197	A simple and sensitive assay for apurinic/apyrimidinic endonuclease 1 activity based on host-guest interaction of β-cyclodextrin polymer and pyrene. Chinese Chemical Letters, 2018, 29, 973-976.	9.0	7
198	Investigation of the interactions between aptamer and misfolded proteins: From monomer and oligomer to fibril by singleâ€molecule force spectroscopy. Journal of Molecular Recognition, 2018, 31, e2686.	2.1	7

#	Article	IF	CITATIONS
199	Selection of aptamers for human hepatocellular carcinoma with high specificity. Chinese Science Bulletin, 2013, 58, 2745-2750.	0.7	7
200	Monitoring p21 mRNA expression in living cell based on molecular beacon fluorescence increasing rate. Science Bulletin, 2008, 53, 357-361.	1.7	6
201	A self-assembled conformational switch: a host–guest stabilized triple stem molecular beacon via a photoactivated and thermal regeneration mode. Chemical Communications, 2014, 50, 7803-7805.	4.1	6
202	Metallurgical leaching of metal powder for facile and generalized synthesis of metal sulfide nanocrystals. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 497, 344-351.	4.7	6
203	DNA-Silver Nanocluster Binary Probes for Ratiometric Fluorescent Detection of HPV-related DNA. Chemical Research in Chinese Universities, 2019, 35, 581-585.	2.6	6
204	Biomimetic nanochannel membrane for cascade response of borate and cis-hydroxyl compounds: An IMP logic gate device. Chinese Chemical Letters, 2019, 30, 1397-1400.	9.0	6
205	Real-time monitoring of DNAzyme cleavage process using fluorescent assay. Chinese Chemical Letters, 2009, 20, 990-994.	9.0	5
206	Protein- driven disassembly of surfactant- polyelectrolyte nanomicelles: Modulation of quantum dot/fluorochrome FRET for pattern sensing. Sensors and Actuators B: Chemical, 2018, 272, 393-399.	7.8	5
207	Investigation of the interaction between split aptamer and vascular endothelial growth factor 165 using single molecule force spectroscopy. Journal of Molecular Recognition, 2020, 33, e2829.	2.1	5
208	Polymer-assisted Au@PDA nanoparticles lyophilized powder with high stability and low adsorption and its application in colorimetric biosensing. Analytica Chimica Acta, 2022, 1220, 339995.	5.4	5
209	Novel protein detection method based on proximity-dependent polymerase reaction and aptamers. Science Bulletin, 2008, 53, 204-208.	1.7	4
210	Phosphate modulated permeability of mesoporous silica spheres: a biomimetic ion channel decorated compartment model. Journal of Materials Chemistry B, 2015, 3, 323-329.	5.8	4
211	Acceleration of Hen Egg White Lysozyme Amyloid Fibrillation by Single- or Few-Layer Molybdenum Disulfide Nanosheets. Journal of Nanoscience and Nanotechnology, 2017, 17, 2892-2898.	0.9	4
212	Selection of Aptamers for Hydrophobic Drug Docetaxel To Improve Its Solubility. ACS Applied Bio Materials, 2018, 1, 168-174.	4.6	4
213	Coacervate microdroplet protocell-mediated gene transfection for nitric oxide production and induction of cell apoptosis. Journal of Materials Chemistry B, 2021, 9, 9784-9793.	5.8	4
214	Sequence-Dependent DNA-Mediated Fluorescent Polydopamine Nanoparticles for Detection and Removal of Copper(II) ions. ACS Applied Nano Materials, 2022, 5, 2038-2047.	5.0	4
215	Quantitative detection of ING1 mRNA under different gene regulation based on molecular beacon. Science Bulletin, 2006, 51, 2059-2064.	1.7	3
216	Using force spectroscopy analysis to improve the properties of the hairpin probe. Nucleic Acids Research, 2007, 35, e145-e145.	14.5	3

#	Article	IF	CITATIONS
217	Fidelity genotyping of point mutation by enhanced melting point difference using DNA ligase. Talanta, 2007, 73, 23-29.	5.5	3
218	Ultrasensitive monitoring of ribozyme cleavage product using molecular-beacon-ligation system. Science Bulletin, 2007, 52, 603-607.	1.7	3
219	mRNA detection in living cell using phosphorothioate-modified molecular beacon. Science Bulletin, 2009, 54, 1507-1514.	9.0	3
220	A facile approach toward multicolor polymers: Supramolecular self-assembly via host–guest interaction. Chinese Chemical Letters, 2014, 25, 1318-1322.	9.0	3
221	Engineering DNAzyme cascade for signal transduction and amplification. Analyst, The, 2020, 145, 1925-1932.	3.5	3
222	Microcapillary-based multicolor assay for quantitative and sensitive point-of-care testing of proteins. Biosensors and Bioelectronics, 2021, 189, 113370.	10.1	3
223	Biosynthesis of Silver Nanoparticles Using Sun-Dried Mulberry Leaf. Journal of Nanoscience and Nanotechnology, 2011, 11, 3330-3335.	0.9	2
224	Temperature-sensitive gold-nanotube array membranes modified with poly(N-isopropylacrylamide). Science Bulletin, 2008, 53, 727-732.	1.7	1
225	Dopamine modulated ionic permeability in mesoporous silica sphere based biomimetic compartment. Colloids and Surfaces B: Biointerfaces, 2016, 142, 266-271.	5.0	1
226	Pattern recognition of enrichment levels of SELEX-based candidate aptamers for human C-reactive protein. Biomedizinische Technik, 2017, 62, 333-338.	0.8	1
227	Application of Nucleic Acid Aptamers in Polypeptides Researches. Chinese Journal of Analytical Chemistry, 2017, 45, 1795-1803.	1.7	1
228	Photothermally Activated Coacervate Model Protocells as Signal Transducers Endow Mammalian Cells with Light Sensitivity. Advanced Biology, 2021, 5, e2100695.	2.5	1
229	High Sensitive Coralyne Detection by Using of Au Nanoparticles-Enhanced Surface Plasmon Resonance Biosensor. Acta Chimica Sinica, 2012, 70, 1483.	1.4	1
230	One-Dimensional Microfluidic Beads Array for Nucleic Acids Detection. , 2007, , .		0
231	Tumour metastasis-associated gene profiling using one-dimensional microfluidic beads array. Science Bulletin, 2007, 52, 2331-2336.	1.7	0
232	Mutual Interaction Models: Invasion and Defense Interactions between Enzymeâ€Active Liquid Coacervate Protocells and Living Cells (Small 29/2020). Small, 2020, 16, 2070162.	10.0	0