

# Xiaohai Yang

## List of Publications by Year in descending order

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Version: 2024-02-01

232  
papers

9,290  
citations

43973

48  
h-index

54797

84  
g-index

233  
all docs

233  
docs citations

233  
times ranked

9144  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Preparation and antibacterial activity of Fe <sub>3</sub> O <sub>4</sub> @Ag nanoparticles. <i>Nanotechnology</i> , 2007, 18, 285604.   | 1.3 | 486       |
| 2  | 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, 401-404.  | 7.2 | 486       |
| 3  | Enzyme-Free Colorimetric Detection of DNA by Using Gold Nanoparticles and Hybridization Chain Reaction Amplification. <i>Analytical Chemistry</i> , 2013, 85, 7689-7695.  | 3.2 | 294       |
| 4  | 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, 8340-8343.  | 6.6 | 285       |
| 5  | 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, 3900-3905. | 3.3 | 283       |
| 6  | Sensitive fluorescence detection of nucleic acids based on isothermal circular strand-displacement polymerization reaction. <i>Nucleic Acids Research</i> , 2009, 37, e20-e20.  | 6.5 | 211       |
| 7  | Functionalized Silica Nanoparticles: A Platform for Fluorescence Imaging at the Cell and Small Animal Levels. <i>Accounts of Chemical Research</i> , 2013, 46, 1367-1376.   | 7.6 | 159       |
| 8  | 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.   | 5.3 | 154       |
| 9  | 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.   | 5.3 | 141       |
| 10 | Gold Nanoparticle Loaded Split-DNAzyme Probe for Amplified miRNA Detection in Living Cells. <i>Analytical Chemistry</i> , 2017, 89, 8377-8383.  | 3.2 | 140       |
| 11 | Graphene oxide-gold nanoparticles hybrids-based surface plasmon resonance for sensitive detection of microRNA. <i>Biosensors and Bioelectronics</i> , 2016, 77, 1001-1007.  | 5.3 | 130       |
| 12 | Gold Nanoparticle Based Hairpin-Locked-DNAzyme Probe for Amplified miRNA Imaging in Living Cells. <i>Analytical Chemistry</i> , 2017, 89, 5850-5856.  | 3.2 | 124       |
| 13 | One-step engineering of silver nanoclusters aptamer assemblies as luminescent labels to target tumor cells. <i>Nanoscale</i> , 2012, 4, 110-112.  | 2.8 | 123       |
| 14 | Detection of C-reactive protein using nanoparticle-enhanced surface plasmon resonance using an aptamer-antibody sandwich assay. <i>Chemical Communications</i> , 2016, 52, 3568-3571.   | 2.2 | 117       |
| 15 | A DNA nanowire based localized catalytic hairpin assembly reaction for microRNA imaging in live cells. <i>Chemical Science</i> , 2018, 9, 7802-7808.  | 3.7 | 117       |
| 16 | DNA tetrahedron nanostructures for biological applications: biosensors and drug delivery. <i>Analyst</i> , 2017, 142, 3322-3332.  | 1.7 | 115       |
| 17 | Ratiometric Fluorescent Sensing of pH Values in Living Cells by Dual-Fluorophore-Labeled i-Motif Nanoprobes. <i>Analytical Chemistry</i> , 2015, 87, 8724-8731.   | 3.2 | 113       |
| 18 | Aptazyme-Gold Nanoparticle Sensor for Amplified Molecular Probing in Living Cells. <i>Analytical Chemistry</i> , 2016, 88, 5981-5987.   | 3.2 | 106       |

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|----|---|-----|-----------|
| 19 | 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.        | 4.0 | 101       |
| 20 | Enzyme-mediated nitric oxide production in vasoactive erythrocyte membrane-enclosed coacervate protocells. <i>Nature Chemistry</i> , 2020, 12, 1165-1173.   | 6.6 | 101       |
| 21 | A switchable fluorescent quantum dot probe based on aggregation/disaggregation mechanism. <i>Chemical Communications</i> , 2011, 47, 935-937.   | 2.2 | 94        |
| 22 | A DNA tetrahedron-based molecular beacon for tumor-related mRNA detection in living cells. <i>Chemical Communications</i> , 2016, 52, 2346-2349.  | 2.2 | 94        |
| 23 | Different Active Biomolecules Involved in Biosynthesis of Gold Nanoparticles by Three Fungus Species. <i>Journal of Biomedical Nanotechnology</i> , 2011, 7, 245-254.                                     | 0.5 | 93        |
| 24 | 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, 6572-6579. | 3.2 | 88        |
| 25 | Fluorescence resonance energy transfer-based hybridization chain reaction for in situ visualization of tumor-related mRNA. <i>Chemical Science</i> , 2016, 7, 3829-3835.                                  | 3.7 | 85        |
| 26 | 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.             | 2.9 | 85        |
| 27 | 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.                    | 3.2 | 82        |
| 28 | Giant Coacervate Vesicles As an Integrated Approach to Cytomimetic Modeling. <i>Journal of the American Chemical Society</i> , 2021, 143, 2866-2874.  | 6.6 | 82        |
| 29 | Self-Assembled DNA Nanocentipede as Multivalent Drug Carrier for Targeted Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25733-25740.   | 4.0 | 80        |
| 30 | 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.            | 3.2 | 80        |
| 31 | MnO <sub>2</sub> nanosheet mediated "A"•FRET binary probes for sensitive detection of intracellular mRNA. <i>Chemical Science</i> , 2017, 8, 668-673.   | 3.7 | 76        |
| 32 | Dual-microRNA-controlled double-amplified cascaded logic DNA circuits for accurate discrimination of cell subtypes. <i>Chemical Science</i> , 2019, 10, 1442-1449.  | 3.7 | 73        |
| 33 | Construction of coacervate-in-coacervate multi-compartment protocells for spatial organization of enzymatic reactions. <i>Chemical Science</i> , 2020, 11, 8617-8625.                                     | 3.7 | 73        |
| 34 | Sensitive point-of-care monitoring of cardiac biomarker myoglobin using aptamer and ubiquitous personal glucose meter. <i>Biosensors and Bioelectronics</i> , 2015, 64, 161-164.                          | 5.3 | 71        |
| 35 | Recent advances in fluorescent nucleic acid probes for living cell studies. <i>Analyst</i> , The, 2013, 138, 62-71.   | 1.7 | 62        |
| 36 | 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.                | 2.6 | 62        |

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|----|---|-----|-----------|
| 37 | Enhanced surface plasmon resonance with the modified catalytic growth of Au nanoparticles. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1106-1110.  | 5.3 | 61        |
| 38 | Amplified FRET Nanoflares: An Endogenous mRNA-Powered Nanomachine for Intracellular MicroRNA Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20104-20111.               | 7.2 | 61        |
| 39 | Real-time monitoring of uracil removal by uracil-DNA glycosylase using fluorescent resonance energy transfer probes. <i>Analytical Biochemistry</i> , 2007, 366, 237-243.                     | 1.1 | 60        |
| 40 | Competition-Mediated FRET-Switching DNA Tetrahedron Molecular Beacon for Intracellular Molecular Detection. <i>ACS Sensors</i> , 2016, 1, 1445-1452.  | 4.0 | 56        |
| 41 | Powerful Amplification Cascades of FRET-Based Two-Layer Nonenzymatic Nucleic Acid Circuits. <i>Analytical Chemistry</i> , 2016, 88, 5857-5864.  | 3.2 | 56        |
| 42 | 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.         | 4.0 | 55        |
| 43 | Aptamer-based FRET nanoflares for imaging potassium ions in living cells. <i>Chemical Communications</i> , 2016, 52, 11386-11389.   | 2.2 | 55        |
| 44 | Aptamer-based analysis of angiogenin by fluorescence anisotropy. <i>Analyst, The</i> , 2007, 132, 107-113.  | 1.7 | 54        |
| 45 | Exciton Energy Transfer-Based Fluorescent Sensing through Aptamer-Programmed Self-Assembly of Quantum Dots. <i>Analytical Chemistry</i> , 2013, 85, 11121-11128.                              | 3.2 | 54        |
| 46 | A cell-surface-anchored ratiometric i-motif sensor for extracellular pH detection. <i>Chemical Communications</i> , 2016, 52, 7818-7821.  | 2.2 | 54        |
| 47 | Detection of Nucleic Acids in Complex Samples via Magnetic Microbead-Assisted Catalyzed Hairpin Assembly and A-FRET. <i>Analytical Chemistry</i> , 2018, 90, 7164-7170.                       | 3.2 | 54        |
| 48 | A novel kinase-based ATP assay using molecular beacon. <i>Analytical Biochemistry</i> , 2008, 372, 131-133.   | 1.1 | 52        |
| 49 | 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, 74-79. | 2.6 | 51        |
| 50 | Sense-and-Treat-DNA Nanodevice for Synergetic Destruction of Circulating Tumor Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 26552-26558.                                   | 4.0 | 51        |
| 51 | Amplified detection of cocaine based on strand-displacement polymerization and fluorescence resonance energy transfer. <i>Biosensors and Bioelectronics</i> , 2011, 28, 450-453.              | 5.3 | 48        |
| 52 | Programmable Self-Assembly of DNA-Protein Hybrid Hydrogel for Enzyme Encapsulation with Enhanced Biological Stability. <i>Biomacromolecules</i> , 2016, 17, 1543-1550.                        | 2.6 | 48        |
| 53 | Scallop-Inspired DNA Nanomachine: A Ratiometric Nanothermometer for Intracellular Temperature Sensing. <i>Analytical Chemistry</i> , 2017, 89, 12115-12122.                                   | 3.2 | 48        |
| 54 | Competitive Host-Guest Interaction between $\beta$ -Cyclodextrin Polymer and Pyrene-Labeled Probes for Fluorescence Analyses. <i>Analytical Chemistry</i> , 2015, 87, 2665-2671.              | 3.2 | 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. <i>Analyst</i> , The, 2017, 142, 389-396.   | 1.7 | 47        |
| 56 | Real-time monitoring of restriction endonuclease activity using molecular beacon. <i>Analytical Biochemistry</i> , 2007, 363, 294-296.   | 1.1 | 46        |
| 57 | A signal-on split aptasensor for highly sensitive and specific detection of tumor cells based on FRET. <i>Chemical Communications</i> , 2016, 52, 1590-1593.   | 2.2 | 45        |
| 58 | 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, 3824-3826.   | 2.2 | 44        |
| 59 | Self-Assembled Supramolecular Nanoprobes for Ratiometric Fluorescence Measurement of Intracellular pH Values. <i>Analytical Chemistry</i> , 2015, 87, 2459-2465.   | 3.2 | 43        |
| 60 | Three-Dimensional Molecular Transfer from DNA Nanocages to Inner Gold Nanoparticle Surfaces. <i>ACS Nano</i> , 2019, 13, 4174-4182.  | 7.3 | 43        |
| 61 | 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, 283-287. | 2.0 | 42        |
| 62 | 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, 2505-2510.                               | 3.2 | 41        |
| 63 | Surface plasmon resonance detection of small molecule using split aptamer fragments. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 893-898.  | 4.0 | 41        |
| 64 | An electrochemical DNA biosensor based on the $\alpha$ -junction structure and restriction endonuclease-aided target recycling strategy. <i>Chemical Communications</i> , 2012, 48, 2982.  | 2.2 | 41        |
| 65 | A sensitive one-step method for quantitative detection of $\alpha$ -amylase in serum and urine using a personal glucose meter. <i>Analyst</i> , The, 2015, 140, 1161-1165.   | 1.7 | 41        |
| 66 | A sensitive detection of T4 polynucleotide kinase activity based on $\beta$ -cyclodextrin polymer enhanced fluorescence combined with an exonuclease reaction. <i>Chemical Communications</i> , 2015, 51, 1815-1818.                             | 2.2 | 41        |
| 67 | Enhanced Imaging of Specific Cell-Surface Glycosylation Based on Multi-FRET. <i>Analytical Chemistry</i> , 2018, 90, 6131-6137.  | 3.2 | 41        |
| 68 | Electrical Switching of DNA Monolayers Investigated by Surface Plasmon Resonance. <i>Langmuir</i> , 2006, 22, 5654-5659.   | 1.6 | 40        |
| 69 | Fluorescent nanoparticles for chemical and biological sensing. <i>Science China Chemistry</i> , 2011, 54, 1157-1176.   | 4.2 | 40        |
| 70 | I-motif-based nano-flares for sensing pH changes in live cells. <i>Chemical Communications</i> , 2014, 50, 15768-15771.  | 2.2 | 40        |
| 71 | Design and bioanalytical applications of DNA hairpin-based fluorescent probes. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 53, 11-20.   | 5.8 | 39        |
| 72 | FRET-based aptamer probe for rapid angiogenin detection. <i>Talanta</i> , 2008, 75, 770-774.   | 2.9 | 38        |

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|----|---|-----|-----------|
| 73 | Real-Time Imaging of Protein Internalization Using Aptamer Conjugates. <i>Analytical Chemistry</i> , 2008, 80, 5002-5008.   | 3.2 | 38        |
| 74 | Aggregation Control of Quantum Dots through Ion-Mediated Hydrogen Bonding Shielding. <i>ACS Nano</i> , 2012, 6, 4973-4983.  | 7.3 | 38        |
| 75 | DNA aptamer-based surface plasmon resonance sensing of human C-reactive protein. <i>RSC Advances</i> , 2014, 4, 30934-30937.  | 1.7 | 38        |
| 76 | Two-Color-Based Nanoflares for Multiplexed MicroRNAs Imaging in Live Cells. <i>Nanotheranostics</i> , 2018, 2, 96-105.  | 2.7 | 38        |
| 77 | 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.                      | 4.0 | 37        |
| 78 | Proximity-dependent protein detection based on enzyme-assisted fluorescence signal amplification. <i>Biosensors and Bioelectronics</i> , 2014, 51, 255-260.                                       | 5.3 | 37        |
| 79 | Exciton Energy Transfer-Based Quantum Dot Fluorescence Sensing Array: "Chemical Noses" for Discrimination of Different Nucleobases. <i>Analytical Chemistry</i> , 2015, 87, 876-883.              | 3.2 | 37        |
| 80 | An enzyme-free and amplified colorimetric detection strategy via target-aptamer binding triggered catalyzed hairpin assembly. <i>Chemical Communications</i> , 2015, 51, 937-940.                 | 2.2 | 37        |
| 81 | 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.    | 2.6 | 33        |
| 82 | Self-assembled DNA nanocentipedes as multivalent vehicles for enhanced delivery of CpG oligonucleotides. <i>Chemical Communications</i> , 2017, 53, 5565-5568.                                    | 2.2 | 33        |
| 83 | Hairpin-fuelled catalytic nanobeacons for amplified microRNA imaging in live cells. <i>Chemical Communications</i> , 2018, 54, 10336-10339.   | 2.2 | 33        |
| 84 | Photostable Luminescent Nanoparticles as Biological Label for Cell Recognition of System Lupus Erythematosus Patients. <i>Journal of Nanoscience and Nanotechnology</i> , 2002, 2, 317-320.       | 0.9 | 32        |
| 85 | Real-time monitoring of DNA polymerase activity using molecular beacon. <i>Analytical Biochemistry</i> , 2006, 353, 141-143.  | 1.1 | 31        |
| 86 | Inorganic fluorescent nanoprobe for cellular and subcellular imaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 58, 120-129.   | 5.8 | 31        |
| 87 | 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. | 2.5 | 31        |
| 88 | Nucleic acids detection using cationic fluorescent polymer based on one-dimensional microfluidic beads array. <i>Talanta</i> , 2009, 77, 1027-1031.   | 2.9 | 29        |
| 89 | Evaluation of Medicine Effects on the Interaction of Myoglobin and Its Aptamer or Antibody Using Atomic Force Microscopy. <i>Analytical Chemistry</i> , 2015, 87, 2242-2248.                      | 3.2 | 29        |
| 90 | Exploring Interactions of Aptamers with A $\beta$ Amyloid Aggregates and Its Application: Detection of Amyloid Aggregates. <i>Analytical Chemistry</i> , 2020, 92, 2853-2858.                     | 3.2 | 29        |

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|-----|--|-----|-----------|
| 91  | FRET-based nucleic acid probes: Basic designs and applications in bioimaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 124, 115784.  | 5.8 | 29        |
| 92  | 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.                 | 1.7 | 28        |
| 93  | 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, 9466-9472.    | 3.2 | 28        |
| 94  | 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.                        | 3.2 | 28        |
| 95  | 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.  | 5.3 | 28        |
| 96  | Atomic force microscopy investigation of the characteristic effects of silver ions on <i>Escherichia coli</i> and <i>Staphylococcus epidermidis</i> . <i>Talanta</i> , 2010, 81, 1508-1512.                            | 2.9 | 27        |
| 97  | A novel fluorescent detection for PDGF-BB based on dsDNA-templated copper nanoparticles. <i>Chinese Chemical Letters</i> , 2014, 25, 9-14.   | 4.8 | 27        |
| 98  | Quantum dot/methylene blue FRET mediated NIR fluorescent nanomicelles with large Stokes shift for bioimaging. <i>Chemical Communications</i> , 2015, 51, 14357-14360.  | 2.2 | 27        |
| 99  | Ratiometric Fluorescent DNA Nanostructure for Mitochondrial ATP Imaging in Living Cells Based on Hybridization Chain Reaction. <i>Analytical Chemistry</i> , 2021, 93, 6715-6722.                                      | 3.2 | 27        |
| 100 | A supersandwich fluorescence in situ hybridization strategy for highly sensitive and selective mRNA imaging in tumor cells. <i>Chemical Communications</i> , 2016, 52, 370-373.  | 2.2 | 26        |
| 101 | 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.                                 | 2.9 | 26        |
| 102 | DNA Hydrogelation-Enhanced Imaging Ellipsometry for Sensing Exosomal microRNAs with a Tunable Detection Range. <i>Analytical Chemistry</i> , 2020, 92, 11953-11959.  | 3.2 | 25        |
| 103 | Electrochemical biosensors for detection of point mutation based on surface ligation reaction and oligonucleotides modified gold nanoparticles. <i>Analytica Chimica Acta</i> , 2011, 688, 163-167.                    | 2.6 | 24        |
| 104 | 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.  | 6.7 | 24        |
| 105 | A novel sensitive and selective ligation-based ATP assay using a molecular beacon. <i>Analyst, The</i> , 2013, 138, 3013.  | 1.7 | 24        |
| 106 | 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. | 2.5 | 24        |
| 107 | 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, 945-951.                 | 5.3 | 23        |
| 108 | A recognition-before-labeling strategy for sensitive detection of lung cancer cells with a quantum dot-aptamer complex. <i>Analyst, The</i> , 2015, 140, 6100-6107.  | 1.7 | 23        |



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|-----|--|-----|-----------|
| 109 | 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.         | 2.9 | 22        |
| 110 | A one-step sensitive dynamic light scattering method for adenosine detection using split aptamer fragments. <i>Analytical Methods</i> , 2011, 3, 59-61.                                | 1.3 | 21        |
| 111 | Single Nanoparticle Imaging and Characterization of Different Phospholipid-Encapsulated Quantum Dot Micelles. <i>Langmuir</i> , 2012, 28, 10602-10609.                                 | 1.6 | 21        |
| 112 | An enzyme-free and amplified colorimetric detection strategy: assembly of gold nanoparticles through target-catalytic circuits. <i>Analyt. The</i> , 2015, 140, 1004-1007.             | 1.7 | 21        |
| 113 | A simple label-free aptamer-based method for C-reactive protein detection. <i>Analytical Methods</i> , 2016, 8, 4177-4180.   | 1.3 | 21        |
| 114 | Controlled dimerization of artificial membrane receptors for transmembrane signal transduction. <i>Chemical Science</i> , 2021, 12, 8224-8230.   | 3.7 | 21        |
| 115 | One-dimensional microfluidic beads array for multiple mRNAs expression detection. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2759-2762.  | 5.3 | 20        |
| 116 | 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. | 2.2 | 20        |
| 117 | Sensitive detection of DNA methyltransferase activity based on rolling circle amplification technology. <i>Chinese Chemical Letters</i> , 2014, 25, 1047-1051.                         | 4.8 | 20        |
| 118 | Discrimination of hemoglobins with subtle differences using an aptamer based sensing array. <i>Chemical Communications</i> , 2015, 51, 8304-8306.                                      | 2.2 | 20        |
| 119 | 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.   | 3.2 | 20        |
| 120 | Live-Cell MicroRNA Imaging through MnO <sub>2</sub> Nanosheet-Mediated DNA Hybridization Chain Reaction. <i>ChemBioChem</i> , 2018, 19, 147-152.                                       | 1.3 | 20        |
| 121 | Self-Assembled Supramolecular Nanoparticles for Targeted Delivery and Combination Chemotherapy. <i>ChemMedChem</i> , 2018, 13, 2037-2044.  | 1.6 | 20        |
| 122 | Near-infrared photothermal release of hydrogen sulfide from nanocomposite hydrogels for anti-inflammation applications. <i>Chinese Chemical Letters</i> , 2020, 31, 787-791.           | 4.8 | 20        |
| 123 | Development of DNA Aptamer as a $\beta$ -Amyloid Aggregation Inhibitor. <i>ACS Applied Bio Materials</i> , 2020, 3, 8611-8618.   | 2.3 | 20        |
| 124 | Invasion and Defense Interactions between Enzyme-Active Liquid Coacervate Protocells and Living Cells. <i>Small</i> , 2020, 16, e2002073.  | 5.2 | 20        |
| 125 | Preconcentration and separation of ultra-trace beryllium using quinalizarine-modified magnetic microparticles. <i>Analytica Chimica Acta</i> , 2009, 646, 123-127.                     | 2.6 | 19        |
| 126 | Chemical etching with tetrafluoroborate: a facile method for resizing of CdTe nanocrystals under mild conditions. <i>Chemical Communications</i> , 2009, , 6080.                       | 2.2 | 19        |



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|-----|--|-----|-----------|
| 127 | G-quadruplex fluorescence quenching ability: a simple and efficient strategy to design a single-labeled DNA probe. <i>Analytical Methods</i> , 2012, 4, 895.   | 1.3 | 19        |
| 128 | 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, 6789-6792.                | 2.2 | 19        |
| 129 | Development of Dual-Aptamers for Constructing Sandwich-Type Pancreatic Polypeptide Assay. <i>ACS Sensors</i> , 2017, 2, 308-315.   | 4.0 | 19        |
| 130 | Real-time Monitoring of Nucleic Acid Dephosphorylation by Using Molecular Beacons. <i>ChemBioChem</i> , 2007, 8, 1487-1490.  | 1.3 | 18        |
| 131 | Split aptazyme-based catalytic molecular beacons for amplified detection of adenosine. <i>Analyst, The</i> , 2014, 139, 2994.  | 1.7 | 18        |
| 132 | Amplified fluorescence detection of adenosine via catalyzed hairpin assembly and host-guest interactions between $\beta$ -cyclodextrin polymer and pyrene. <i>Analyst, The</i> , 2016, 141, 2502-2507.                     | 1.7 | 18        |
| 133 | Use of $\beta$ -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> , 2017, 142, 224-228. | 1.7 | 18        |
| 134 | Solid-phase single molecule biosensing using dual-color colocalization of fluorescent quantum dot nanoprobe. <i>Nanoscale</i> , 2013, 5, 11257.  | 2.8 | 17        |
| 135 | A light-up fluorescence assay for tumor cell detection based on bifunctional split aptamers. <i>Analyst, The</i> , 2018, 143, 3579-3585.   | 1.7 | 17        |
| 136 | Aptamer as a Tool for Investigating the Effects of Electric Field on $\beta$ -Cyclodextrin Monomer and Aggregates Using Single-Molecule Force Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 1954-1961.             | 3.2 | 17        |
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