

Chunhai Fan

List of Publications by Year in descending order

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Version: 2024-02-01

853
papers

74,370
citations

413

132
h-index

921

239
g-index

904
all docs

904
docs citations

904
times ranked

73260
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222. | 11.0 | 4,789 |
| 2 | Graphene-Based Antibacterial Paper. <i>ACS Nano</i> , 2010, 4, 4317-4323. | 15.3 | 1,816 |
| 3 | Isothermal Amplification of Nucleic Acids. <i>Chemical Reviews</i> , 2015, 115, 12491-12545. | 51.4 | 1,375 |
| 4 | A Graphene Nanoprobe for Rapid, Sensitive, and Multicolor Fluorescent DNA Analysis. <i>Advanced Functional Materials</i> , 2010, 20, 453-459. | 16.5 | 1,320 |
| 5 | Destructive extraction of phospholipids from <i>Escherichia coli</i> membranes by graphene nanosheets. <i>Nature Nanotechnology</i> , 2013, 8, 594-601. | 30.5 | 1,296 |
| 6 | Aptamer-based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 108-117. | 11.9 | 1,179 |
| 7 | Single-Layer MoS ₂ -Based Nanoprobes for Homogeneous Detection of Biomolecules. <i>Journal of the American Chemical Society</i> , 2013, 135, 5998-6001. | 14.6 | 1,007 |
| 8 | Electrochemical interrogation of conformational changes as a reagentless method for the sequence-specific detection of DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9134-9137. | 7.6 | 992 |
| 9 | Protein Corona-Mediated Mitigation of Cytotoxicity of Graphene Oxide. <i>ACS Nano</i> , 2011, 5, 3693-3700. | 15.3 | 831 |
| 10 | DNA Nanotechnology-Enabled Drug Delivery Systems. <i>Chemical Reviews</i> , 2019, 119, 6459-6506. | 51.4 | 823 |
| 11 | Target-Responsive Structural Switching for Nucleic Acid-Based Sensors. <i>Accounts of Chemical Research</i> , 2010, 43, 631-641. | 16.6 | 708 |
| 12 | Self-Assembled Multivalent DNA Nanostructures for Noninvasive Intracellular Delivery of Immunostimulatory CpG Oligonucleotides. <i>ACS Nano</i> , 2011, 5, 8783-8789. | 15.3 | 680 |
| 13 | Distribution and biocompatibility studies of graphene oxide in mice after intravenous administration. <i>Carbon</i> , 2011, 49, 986-995. | 10.7 | 637 |
| 14 | The cytotoxicity of cadmium-based quantum dots. <i>Biomaterials</i> , 2012, 33, 1238-1244. | 11.8 | 613 |
| 15 | A Target-Responsive Electrochemical Aptamer Switch (TREAS) for Reagentless Detection of Nanomolar ATP. <i>Journal of the American Chemical Society</i> , 2007, 129, 1042-1043. | 14.6 | 572 |
| 16 | Self-Catalyzed, Self-Limiting Growth of Glucose Oxidase-Mimicking Gold Nanoparticles. <i>ACS Nano</i> , 2010, 4, 7451-7458. | 15.3 | 557 |
| 17 | Functional nanoprobes for ultrasensitive detection of biomolecules. <i>Chemical Society Reviews</i> , 2010, 39, 4234. | 40.3 | 549 |
| 18 | Beyond superquenching: Hyper-efficient energy transfer from conjugated polymers to gold nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6297-6301. | 7.6 | 494 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | A DNA Nanostructure-Based Biomolecular Probe Carrier Platform for Electrochemical Biosensing. <i>Advanced Materials</i> , 2010, 22, 4754-4758. | 24.3 | 493 |
| 20 | Designed Diblock Oligonucleotide for the Synthesis of Spatially Isolated and Highly Hybridizable Functionalization of DNA-Gold Nanoparticle Nanoconjugates. <i>Journal of the American Chemical Society</i> , 2012, 134, 11876-11879. | 14.6 | 470 |
| 21 | Hybridization Chain Reaction Amplification of MicroRNA Detection with a Tetrahedral DNA Nanostructure-Based Electrochemical Biosensor. <i>Analytical Chemistry</i> , 2014, 86, 2124-2130. | 6.8 | 468 |
| 22 | A graphene-based fluorescent nanoprobe for silver(i) ions detection by using graphene oxide and a silver-specific oligonucleotide. <i>Chemical Communications</i> , 2010, 46, 2596. | 4.2 | 460 |
| 23 | Single-Particle Tracking and Modulation of Cell Entry Pathways of a Tetrahedral DNA Nanostructure in Live Cells. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7745-7750. | 14.8 | 459 |
| 24 | Silicon Nanomaterials Platform for Bioimaging, Biosensing, and Cancer Therapy. <i>Accounts of Chemical Research</i> , 2014, 47, 612-623. | 16.6 | 458 |
| 25 | DNA origami. <i>Nature Reviews Methods Primers</i> , 2021, 1, . | 18.8 | 433 |
| 26 | Highly Sensitive Electrochemical Sensor for Mercury(II) Ions by Using a Mercury-Specific Oligonucleotide Probe and Gold Nanoparticle-Based Amplification. <i>Analytical Chemistry</i> , 2009, 81, 7660-7666. | 6.8 | 431 |
| 27 | Sequence-Specific Detection of Femtomolar DNA via a Chronocoulometric DNA Sensor (CDS): Effects of Nanoparticle-Mediated Amplification and Nanoscale Control of DNA Assembly at Electrodes. <i>Journal of the American Chemical Society</i> , 2006, 128, 8575-8580. | 14.6 | 416 |
| 28 | An Enzyme-Based E-DNA Sensor for Sequence-Specific Detection of Femtomolar DNA Targets. <i>Journal of the American Chemical Society</i> , 2008, 130, 6820-6825. | 14.6 | 403 |
| 29 | Visual Cocaine Detection with Gold Nanoparticles and Rationally Engineered Aptamer Structures. <i>Small</i> , 2008, 4, 1196-1200. | 11.2 | 394 |
| 30 | Smart Drug Delivery Nanocarriers with Self-Assembled DNA Nanostructures. <i>Advanced Materials</i> , 2013, 25, 4386-4396. | 24.3 | 392 |
| 31 | Functional DNA Nanostructures for Theranostic Applications. <i>Accounts of Chemical Research</i> , 2014, 47, 550-559. | 16.6 | 377 |
| 32 | Unmodified gold nanoparticles as a colorimetric probe for potassium DNA aptamers. <i>Chemical Communications</i> , 2006, , 3780. | 4.2 | 375 |
| 33 | Gold-Nanoparticle-Based Multicolor Nanobeacons for Sequence-Specific DNA Analysis. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8670-8674. | 14.8 | 374 |
| 34 | Complex silica composite nanomaterials templated with DNA origami. <i>Nature</i> , 2018, 559, 593-598. | 36.2 | 372 |
| 35 | Programmable Engineering of a Biosensing Interface with Tetrahedral DNA Nanostructures for Ultrasensitive DNA Detection. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2151-2155. | 14.8 | 363 |
| 36 | Reconfigurable Three-Dimensional DNA Nanostructures for the Construction of Intracellular Logic Sensors. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9020-9024. | 14.8 | 354 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Lab in a Tube: Ultrasensitive Detection of MicroRNAs at the Single-Cell Level and in Breast Cancer Patients Using Quadratic Isothermal Amplification. <i>Journal of the American Chemical Society</i> , 2013, 135, 4604-4607. | 14.6 | 345 |
| 38 | The Biocompatibility of Nanodiamonds and Their Application in Drug Delivery Systems. <i>Theranostics</i> , 2012, 2, 302-312. | 9.9 | 343 |
| 39 | An Exonuclease III-Powered, On-Particle Stochastic DNA Walker. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1855-1858. | 14.8 | 341 |
| 40 | Multicomponent Plasmonic Nanoparticles: From Heterostructured Nanoparticles to Colloidal Composite Nanostructures. <i>Chemical Reviews</i> , 2019, 119, 12208-12278. | 51.4 | 326 |
| 41 | DNA origami nanostructures can exhibit preferential renal uptake and alleviate acute kidney injury. <i>Nature Biomedical Engineering</i> , 2018, 2, 865-877. | 22.4 | 325 |
| 42 | Catalytic Gold Nanoparticles for Nanoplasmonic Detection of DNA Hybridization. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11994-11998. | 14.8 | 313 |
| 43 | The cytotoxicity of cadmium based, aqueous phase "Synthesized, quantum dots and its modulation by surface coating. <i>Biomaterials</i> , 2009, 30, 19-25. | 11.8 | 308 |
| 44 | An Exonuclease III-Powered, On-Particle Stochastic DNA Walker. <i>Angewandte Chemie</i> , 2017, 129, 1881-1884. | 2.1 | 308 |
| 45 | High-Efficiency Fluorescence Quenching of Conjugated Polymers by Proteins. <i>Journal of the American Chemical Society</i> , 2002, 124, 5642-5643. | 14.6 | 305 |
| 46 | Designable ultra-smooth ultra-thin solid-electrolyte interphases of three alkali metal anodes. <i>Nature Communications</i> , 2018, 9, 1339. | 13.2 | 288 |
| 47 | Laundering Durability of Superhydrophobic Cotton Fabric. <i>Advanced Materials</i> , 2010, 22, 5473-5477. | 24.3 | 279 |
| 48 | Engineering nucleic acid structures for programmable molecular circuitry and intracellular biocomputation. <i>Nature Chemistry</i> , 2017, 9, 1056-1067. | 14.3 | 275 |
| 49 | Imaging of Colorectal Cancers Using Activatable Nanoprobes with Second Near-Infrared Window Emission. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3626-3630. | 14.8 | 274 |
| 50 | Intracellular Imaging with a Graphene-Based Fluorescent Probe. <i>Small</i> , 2010, 6, 1686-1692. | 11.2 | 268 |
| 51 | The cytotoxicity of CdTe quantum dots and the relative contributions from released cadmium ions and nanoparticle properties. <i>Biomaterials</i> , 2010, 31, 4829-4834. | 11.8 | 266 |
| 52 | Silicon-Nanowire-Based CMOS-Compatible Field-Effect Transistor Nanosensors for Ultrasensitive Electrical Detection of Nucleic Acids. <i>Nano Letters</i> , 2011, 11, 3974-3978. | 9.5 | 266 |
| 53 | Microwave Synthesis of Water-Dispersed CdTe/CdS/ZnS Core-Shell Quantum Dots with Excellent Photostability and Biocompatibility. <i>Advanced Materials</i> , 2008, 20, 3416-3421. | 24.3 | 262 |
| 54 | Silicon nanostructures for bioapplications. <i>Nano Today</i> , 2010, 5, 282-295. | 12.3 | 260 |

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|----|---|------|-----------|
| 55 | Silicon nanowires-based highly-efficient SERS-active platform for ultrasensitive DNA detection. <i>Nano Today</i> , 2011, 6, 122-130. | 12.3 | 260 |
| 56 | Nanoparticle PCR: Nanogold-Assisted PCR with Enhanced Specificity. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 5100-5103. | 14.8 | 249 |
| 57 | Long-Term Antimicrobial Effect of Silicon Nanowires Decorated with Silver Nanoparticles. <i>Advanced Materials</i> , 2010, 22, 5463-5467. | 24.3 | 247 |
| 58 | Single-Step Rapid Assembly of DNA Origami Nanostructures for Addressable Nanoscale Bioreactors. <i>Journal of the American Chemical Society</i> , 2013, 135, 696-702. | 14.6 | 246 |
| 59 | Ultrasensitive, Multiplexed Detection of Cancer Biomarkers Directly in Serum by Using a Quantum Dot-Based Microfluidic Protein Chip. <i>ACS Nano</i> , 2010, 4, 488-494. | 15.3 | 244 |
| 60 | DNA Nanostructure-Decorated Surfaces for Enhanced Aptamer-Target Binding and Electrochemical Cocaine Sensors. <i>Analytical Chemistry</i> , 2011, 83, 7418-7423. | 6.8 | 240 |
| 61 | Electrochemical Interrogation of DNA Monolayers on Gold Surfaces. <i>Analytical Chemistry</i> , 2005, 77, 6475-6480. | 6.8 | 235 |
| 62 | A Graphene-Based Sensor Array for High-Precision and Adaptive Target Identification with Ensemble Aptamers. <i>Journal of the American Chemical Society</i> , 2012, 134, 13843-13849. | 14.6 | 234 |
| 63 | Graphene on Au(111): A Highly Conductive Material with Excellent Adsorption Properties for High-Resolution Bio/Nanodetection and Identification. <i>ChemPhysChem</i> , 2010, 11, 585-589. | 2.3 | 232 |
| 64 | Programmable and printable <i>Bacillus subtilis</i> biofilms as engineered living materials. <i>Nature Chemical Biology</i> , 2019, 15, 34-41. | 8.0 | 224 |
| 65 | Fluorescent biosensors enabled by graphene and graphene oxide. <i>Biosensors and Bioelectronics</i> , 2017, 89, 96-106. | 10.4 | 223 |
| 66 | A Neural Network Model for Estimating Sea Surface Chlorophyll and Sediments from Thematic Mapper Imagery. <i>Remote Sensing of Environment</i> , 1998, 66, 153-165. | 11.1 | 221 |
| 67 | A graphene-enhanced molecular beacon for homogeneous DNA detection. <i>Nanoscale</i> , 2010, 2, 1021. | 5.8 | 221 |
| 68 | Creating SERS Hot Spots on MoS ₂ Nanosheets with in Situ Grown Gold Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18735-18741. | 8.3 | 221 |
| 69 | Nanomaterials-based sensors for applications in environmental monitoring. <i>Journal of Materials Chemistry</i> , 2012, 22, 18101. | 6.7 | 220 |
| 70 | Aptamer-Based Multicolor Fluorescent Gold Nanoprobes for Multiplex Detection in Homogeneous Solution. <i>Small</i> , 2010, 6, 201-204. | 11.2 | 218 |
| 71 | Graphene Oxide-Facilitated Electron Transfer of Metalloproteins at Electrode Surfaces. <i>Langmuir</i> , 2010, 26, 1936-1939. | 3.7 | 216 |
| 72 | DNA Hydrogel with Aptamer-Toehold-Based Recognition, Cloaking, and Decloaking of Circulating Tumor Cells for Live Cell Analysis. <i>Nano Letters</i> , 2017, 17, 5193-5198. | 9.5 | 216 |

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|----|--|------|-----------|
| 73 | Graphene Oxide-Based Antibacterial Cotton Fabrics. <i>Advanced Healthcare Materials</i> , 2013, 2, 1259-1266. | 8.5 | 215 |
| 74 | Multicolor Gold-Silver Nano-Mushrooms as Ready-to-Use SERS Probes for Ultrasensitive and Multiplex DNA/miRNA Detection. <i>Analytical Chemistry</i> , 2017, 89, 2531-2538. | 6.8 | 211 |
| 75 | Concept and Development of Framework Nucleic Acids. <i>Journal of the American Chemical Society</i> , 2018, 140, 17808-17819. | 14.6 | 211 |
| 76 | Development of electrochemical immunosensors towards point of care diagnostics. <i>Biosensors and Bioelectronics</i> , 2013, 47, 1-11. | 10.4 | 209 |
| 77 | Gold nanoparticle-decorated MoS ₂ nanosheets for simultaneous detection of ascorbic acid, dopamine and uric acid. <i>RSC Advances</i> , 2014, 4, 27625. | 3.7 | 209 |
| 78 | Stable Nanocomposite Based on PEGylated and Silver Nanoparticles Loaded Graphene Oxide for Long-Term Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15328-15341. | 8.3 | 206 |
| 79 | DNA nanostructures coordinate gene silencing in mature plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7543-7548. | 7.6 | 206 |
| 80 | Electrochemically Controlled Formation and Growth of Hydrogen Nanobubbles. <i>Langmuir</i> , 2006, 22, 8109-8113. | 3.7 | 200 |
| 81 | Dietary Iron Oxide Nanoparticles Delay Aging and Ameliorate Neurodegeneration in <i>Drosophila</i> . <i>Advanced Materials</i> , 2016, 28, 1387-1393. | 24.3 | 199 |
| 82 | Solving mazes with single-molecule DNA navigators. <i>Nature Materials</i> , 2019, 18, 273-279. | 26.6 | 197 |
| 83 | Organelle-Specific Triggered Release of Immunostimulatory Oligonucleotides from Intrinsically Coordinated DNA-Metal-Organic Frameworks with Soluble Exoskeleton. <i>Journal of the American Chemical Society</i> , 2017, 139, 15784-15791. | 14.6 | 194 |
| 84 | Terahertz Wave Enhances Permeability of the Voltage-Gated Calcium Channel. <i>Journal of the American Chemical Society</i> , 2021, 143, 4311-4318. | 14.6 | 194 |
| 85 | Photo and pH Stable, Highly-Luminescent Silicon Nanospheres and Their Bioconjugates for Immunofluorescent Cell Imaging. <i>Journal of the American Chemical Society</i> , 2009, 131, 4434-4438. | 14.6 | 193 |
| 86 | Functional nanoprobe for ultrasensitive detection of biomolecules: an update. <i>Chemical Society Reviews</i> , 2014, 43, 1601-1611. | 40.3 | 193 |
| 87 | DNA Nanostructure-based Interfacial engineering for PCR-free ultrasensitive electrochemical analysis of microRNA. <i>Scientific Reports</i> , 2012, 2, 867. | 3.4 | 192 |
| 88 | Framework nucleic acids as programmable carrier for transdermal drug delivery. <i>Nature Communications</i> , 2019, 10, 1147. | 13.2 | 192 |
| 89 | Myelin Sheath as a Dielectric Waveguide for Signal Propagation in the Mid-Infrared to Terahertz Spectral Range. <i>Advanced Functional Materials</i> , 2019, 29, 1807862. | 16.5 | 192 |
| 90 | Enhanced Sensing of Nucleic Acids with Silicon Nanowire Field Effect Transistor Biosensors. <i>Nano Letters</i> , 2012, 12, 5262-5268. | 9.5 | 191 |

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| 91 | Fluorescent In-situ Targeting Probes for Rapid Imaging of Ovarian Cancer-specific β -Glutamyltranspeptidase. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7349-7353. | 14.8 | 190 |
| 92 | Programming nanoparticle valence bonds with single-stranded DNA encoders. <i>Nature Materials</i> , 2020, 19, 781-788. | 26.6 | 189 |
| 93 | Highly Sensitive Diagnosis of Small Hepatocellular Carcinoma Using pH-Responsive Iron Oxide Nanocluster Assemblies. <i>Journal of the American Chemical Society</i> , 2018, 140, 10071-10074. | 14.6 | 188 |
| 94 | Polyvalent Immunostimulatory Nanoagents with Self-Assembled CpG Oligonucleotide-Conjugated Gold Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1202-1206. | 14.8 | 187 |
| 95 | Rapid and ultrasensitive electromechanical detection of ions, biomolecules and SARS-CoV-2 RNA in unamplified samples. <i>Nature Biomedical Engineering</i> , 2022, 6, 276-285. | 22.4 | 184 |
| 96 | Graphene-Based High-Efficiency Surface-Enhanced Raman Scattering-Active Platform for Sensitive and Multiplex DNA Detection. <i>Analytical Chemistry</i> , 2012, 84, 4622-4627. | 6.8 | 182 |
| 97 | COVID-19: A Call for Physical Scientists and Engineers. <i>ACS Nano</i> , 2020, 14, 3747-3754. | 15.3 | 182 |
| 98 | In vivo distribution, pharmacokinetics, and toxicity of aqueous synthesized cadmium-containing quantum dots. <i>Biomaterials</i> , 2011, 32, 5855-5862. | 11.8 | 180 |
| 99 | DNA Nanostructure-Programmed Like-Charge Attraction at the Cell-Membrane Interface. <i>ACS Central Science</i> , 2018, 4, 1344-1351. | 12.3 | 180 |
| 100 | Electron-Transfer Reactivity and Enzymatic Activity of Hemoglobin in a SP Sephadex Membrane. <i>Analytical Chemistry</i> , 2001, 73, 2850-2854. | 6.8 | 179 |
| 101 | Nanoscale optical probes for cellular imaging. <i>Chemical Society Reviews</i> , 2014, 43, 2650. | 40.3 | 179 |
| 102 | Electrochemical DNA Biosensor Based on a Tetrahedral Nanostructure Probe for the Detection of Avian Influenza A (H7N9) Virus. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8834-8842. | 8.3 | 178 |
| 103 | Dual-mode electrochemical analysis of microRNA-21 using gold nanoparticle-decorated MoS ₂ nanosheet. <i>Biosensors and Bioelectronics</i> , 2017, 94, 552-559. | 10.4 | 177 |
| 104 | DNAzyme-Based Rolling-Circle Amplification DNA Machine for Ultrasensitive Analysis of MicroRNA in <i>Drosophila</i> Larva. <i>Analytical Chemistry</i> , 2012, 84, 7664-7669. | 6.8 | 176 |
| 105 | Real-time visualization of clustering and intracellular transport of gold nanoparticles by correlative imaging. <i>Nature Communications</i> , 2017, 8, 15646. | 13.2 | 176 |
| 106 | A dumbbell probe-mediated rolling circle amplification strategy for highly sensitive microRNA detection. <i>Nucleic Acids Research</i> , 2010, 38, e156-e156. | 14.0 | 174 |
| 107 | Visible Light Driven Photoelectrochemical Water Oxidation by Zn- and Ti-Doped Hematite Nanostructures. <i>ACS Catalysis</i> , 2014, 4, 2006-2015. | 11.7 | 174 |
| 108 | Clamped Hybridization Chain Reactions for the Self-Assembly of Patterned DNA Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2171-2175. | 14.8 | 174 |

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|-----|--|------|-----------|
| 109 | Nanomaterials-Based Fluorescent DNA Analysis: A Comparative Study of the Quenching Effects of Graphene Oxide, Carbon Nanotubes, and Gold Nanoparticles. <i>Advanced Functional Materials</i> , 2013, 23, 4140-4148. | 16.5 | 173 |
| 110 | Ultrastable, Highly Fluorescent, and Water-Dispersed Silicon-Based Nanospheres as Cellular Probes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 128-132. | 14.8 | 170 |
| 111 | Uniform Ultrasmall Graphene Oxide Nanosheets with Low Cytotoxicity and High Cellular Uptake. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1761-1767. | 8.3 | 170 |
| 112 | Hydrogen Sulfide-Activatable Second Near-Infrared Fluorescent Nanoassemblies for Targeted Photothermal Cancer Therapy. <i>Nano Letters</i> , 2018, 18, 6411-6416. | 9.5 | 170 |
| 113 | Radiation induced reduction: an effective and clean route to synthesize functionalized graphene. <i>Journal of Materials Chemistry</i> , 2012, 22, 7775. | 6.7 | 167 |
| 114 | An Intelligent DNA Nanorobot with <i>in Vitro</i> Enhanced Protein Lysosomal Degradation of HER2. <i>Nano Letters</i> , 2019, 19, 4505-4517. | 9.5 | 167 |
| 115 | Metal ion-modulated graphene-DNAzyme interactions: design of a nanoprobe for fluorescent detection of lead(II) ions with high sensitivity, selectivity and tunable dynamic range. <i>Chemical Communications</i> , 2011, 47, 6278. | 4.2 | 166 |
| 116 | Adenosine detection by using gold nanoparticles and designed aptamer sequences. <i>Analyst</i> , 2009, 134, 1355. | 3.5 | 158 |
| 117 | Dual-Target Electrochemical Biosensing Based on DNA Structural Switching on Gold Nanoparticle-Decorated MoS ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6826-6833. | 8.3 | 156 |
| 118 | DNA nanotechnology-enabled biosensors. <i>Biosensors and Bioelectronics</i> , 2016, 76, 68-79. | 10.4 | 156 |
| 119 | Nanoplasmonic Imaging of Latent Fingerprints and Identification of Cocaine. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11542-11545. | 14.8 | 155 |
| 120 | Flexible Carbon Nanotube/Polymer Composite Films with High Conductivity and Superhydrophobicity Made by Solution Process. <i>Nano Letters</i> , 2008, 8, 4454-4458. | 9.5 | 154 |
| 121 | Ultrasensitive Electrochemical Detection of Prostate-Specific Antigen by Using Antibodies Anchored on a DNA Nanostructural Scaffold. <i>Analytical Chemistry</i> , 2014, 86, 7337-7342. | 6.8 | 154 |
| 122 | Multivalent Capture and Detection of Cancer Cells with DNA Nanostructured Biosensors and Multibranching Hybridization Chain Reaction Amplification. <i>Analytical Chemistry</i> , 2014, 86, 7843-7848. | 6.8 | 154 |
| 123 | Multiple-Armed Tetrahedral DNA Nanostructures for Tumor-Targeting, Dual-Modality <i>In Vivo</i> Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4378-4384. | 8.3 | 151 |
| 124 | Fiber-type composition of muscles of the beef chuck and round1. <i>Journal of Animal Science</i> , 2002, 80, 2872-2878. | 0.5 | 149 |
| 125 | Carbon nanotube-based ultrasensitive multiplexing electrochemical immunosensor for cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2011, 30, 93-99. | 10.4 | 148 |
| 126 | Direct electrochemistry of glucose oxidase and a biosensor for glucose based on a glass carbon electrode modified with MoS ₂ nanosheets decorated with gold nanoparticles. <i>Mikrochimica Acta</i> , 2014, 181, 1497-1503. | 5.2 | 147 |

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|-----|---|------|-----------|
| 127 | DNA-Conjugated Quantum Dot Nanoprobe for High-Sensitivity Fluorescent Detection of DNA and micro-RNA. ACS Applied Materials & Interfaces, 2014, 6, 1152-1157. | 8.3 | 146 |
| 128 | Design of a gold nanoprobe for rapid and portable mercury detection with the naked eye. Chemical Communications, 2008, , 4885. | 4.2 | 144 |
| 129 | A Graphene-â€“Conjugated Oligomer Hybrid Probe for Light-â€“Up Sensing of Lectin and <i>Escherichia Coli</i> . Advanced Materials, 2011, 23, 4386-4391. | 24.3 | 143 |
| 130 | Integration of Switchable DNA-Based Hydrogels with Surfaces by the Hybridization Chain Reaction. Nano Letters, 2015, 15, 7773-7778. | 9.5 | 139 |
| 131 | Target-Responsive, DNA Nanostructure-Based E-DNA Sensor for microRNA Analysis. Analytical Chemistry, 2014, 86, 2285-2288. | 6.8 | 138 |
| 132 | Nucleic Acid Tests for Clinical Translation. Chemical Reviews, 2021, 121, 10469-10558. | 51.4 | 136 |
| 133 | Design of a carbon nanotube/magnetic nanoparticle-based peroxidase-like nanocomplex and its application for highly efficient catalytic oxidation of phenols. Nano Research, 2009, 2, 617-623. | 10.6 | 134 |
| 134 | DNA Framework-Programmed Cell Capture via Topology-Engineered Receptor-â€“Ligand Interactions. Journal of the American Chemical Society, 2019, 141, 18910-18915. | 14.6 | 133 |
| 135 | Inhibiting Methicillin-Resistant <i>Staphylococcus aureus</i> by Tetrahedral DNA Nanostructure-Enabled Antisense Peptide Nucleic Acid Delivery. Nano Letters, 2018, 18, 5652-5659. | 9.5 | 131 |
| 136 | Two-dimensional nanomaterials for biosensing applications. TrAC - Trends in Analytical Chemistry, 2019, 119, 115610. | 11.9 | 131 |
| 137 | Biosensors based on binding-modulated donor-â€“acceptor distances. Trends in Biotechnology, 2005, 23, 186-192. | 9.5 | 130 |
| 138 | Rolling Circle Amplification-â€“Based DNA Origami Nanostructures for Intracellular Delivery of Immunostimulatory Drugs. Small, 2013, 9, 3082-3087. | 11.2 | 130 |
| 139 | Treating Acute Kidney Injury with Antioxidative Black Phosphorus Nanosheets. Nano Letters, 2020, 20, 1447-1454. | 9.5 | 130 |
| 140 | Universal Fluorescence Biosensor Platform Based on Graphene Quantum Dots and Pyrene-Functionalized Molecular Beacons for Detection of MicroRNAs. ACS Applied Materials & Interfaces, 2015, 7, 16152-16156. | 8.3 | 129 |
| 141 | Facile Synthesis of a MoS ₂ -â€“Prussian Blue Nanocube Nanohybrid-Based Electrochemical Sensing Platform for Hydrogen Peroxide and Carcinoembryonic Antigen Detection. ACS Applied Materials & Interfaces, 2017, 9, 12773-12781. | 8.3 | 129 |
| 142 | Quantizing single-molecule surface-enhanced Raman scattering with DNA origami metamolecules. Science Advances, 2019, 5, eaau4506. | 10.9 | 129 |
| 143 | Implementing digital computing with DNA-based switching circuits. Nature Communications, 2020, 11, 121. | 13.2 | 129 |
| 144 | Biodistribution and pulmonary toxicity of intratracheally instilled graphene oxide in mice. NPG Asia Materials, 2013, 5, e44-e44. | 8.3 | 128 |

| # | ARTICLE | IF | CITATIONS |
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