

# Zhike He

## List of Publications by Year in descending order

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93  
papers

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citations

159358

30  
h-index

197535

49  
g-index

95  
all docs

95  
docs citations

95  
times ranked

3768  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Synthesis of bio-templated clickable quantum dots and a dual-emitting organic/inorganic complex for ratiometric fluorescence visual assay of blood glucose. <i>Journal of Materials Chemistry B</i> , 2022, 10, 4473-4478. | 2.9 | 5         |
| 2  | Ratiometric Fluorescence Determination of Avian Influenza a Virus Subtype H1N1 DNA with Functionalized Quantum Dots and Gold Nanoparticles. <i>Analytical Letters</i> , 2022, 55, 2251-2260.                               | 1.0 | 2         |
| 3  | Novel Method of Clickable Quantum Dot Construction for Bioorthogonal Labeling. <i>Analytical Chemistry</i> , 2021, 93, 777-783.  | 3.2 | 13        |
| 4  | Investigating the effect of 6-mercaptohexanol on the performance of a biosensor based on nanosurface energy transfer between gold nanoparticles and quantum dots. <i>Analytical Methods</i> , 2021, 13, 2092-2098.         | 1.3 | 5         |
| 5  | DNAzyme Walker for Homogeneous Detection of Enterovirus EV71 and CVB3. <i>Analytical Chemistry</i> , 2021, 93, 5606-5611.  | 3.2 | 18        |
| 6  | DNAzyme Sensor Uses Chemiluminescence Resonance Energy Transfer for Rapid, Portable, and Ratiometric Detection of Metal Ions. <i>Analytical Chemistry</i> , 2021, 93, 10834-10840.   | 3.2 | 38        |
| 7  | Metabolic labeling of enterovirus 71 with quantum dots for the study of virus receptor usage. <i>Journal of Nanobiotechnology</i> , 2021, 19, 295.   | 4.2 | 1         |
| 8  | A fluorescence color card for point-of-care testing (POCT) and its application in simultaneous detection. <i>Analyst, The</i> , 2021, 146, 5074-5080.  | 1.7 | 7         |
| 9  | DNA-templated quantum dots and their applications in biosensors, bioimaging, and therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9-17.   | 2.9 | 30        |
| 10 | Label-free probes using DNA-templated silver nanoclusters as versatile reporters. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111926.  | 5.3 | 48        |
| 11 | Magnetic bead-enzyme assemble for triple-parameter telomerase detection at single-cell level. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5283-5289.  | 1.9 | 5         |
| 12 | Homogeneous immunoassay for alpha-fetoprotein based on the quenching of the fluorescence of quantum dots by antibody labelled with complexed copper ion tags. <i>Mikrochimica Acta</i> , 2020, 187, 252.                   | 2.5 | 6         |
| 13 | Self-assembled fluorescent Ce(III) coordination polymer as ratiometric probe for HIV antigen detection. <i>Analytica Chimica Acta</i> , 2019, 1084, 116-122.   | 2.6 | 11        |
| 14 | Quantum Dot Nanobeacons for Single RNA Labeling and Imaging. <i>Journal of the American Chemical Society</i> , 2019, 141, 13454-13458.   | 6.6 | 67        |
| 15 | Target-Induced Cascade Amplification for Homogeneous Virus Detection. <i>Analytical Chemistry</i> , 2019, 91, 15099-15106.   | 3.2 | 25        |
| 16 | Organic-inorganic nanoflowers: from design strategy to biomedical applications. <i>Nanoscale</i> , 2019, 11, 17179-17194.  | 2.8 | 58        |
| 17 | Dual-protein visual detection using ratiometric fluorescent probe based on Rox-DNA functionalized CdZnTeS QDs. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 755-760.  | 4.0 | 23        |
| 18 | The behavior of a bipedal DNA walker moving on the surface of magnet microparticles and its application in DNA detection. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4055-4061.                            | 1.9 | 7         |

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|----|---|-----|-----------|
| 19 | <i>In situ</i> synthesis of photoluminescence-quenching nanopaper for rapid and robust detection of pathogens and proteins. <i>Chemical Communications</i> , 2019, 55, 2660-2663.   | 2.2 | 18        |
| 20 | A fluorometric turn-on aptasensor for mucin 1 based on signal amplification via a hybridization chain reaction and the interaction between a luminescent ruthenium(II) complex and CdZnTeS quantum dots. <i>Mikrochimica Acta</i> , 2019, 186, 233. | 2.5 | 23        |
| 21 | Highly sensitive ratiometric fluorescent paper sensor for the urine assay of cancer. <i>Talanta</i> , 2019, 194, 199-204.   | 2.9 | 15        |
| 22 | Facile synthesis of stable CdTe/CdS QDs using dithiol as surface ligand for alkaline phosphatase detection based on inner filter effect. <i>Analytica Chimica Acta</i> , 2019, 1047, 208-213.   | 2.6 | 34        |
| 23 | Digital analysis with droplet-based microfluidic for the ultrasensitive detection of $\beta$ -gal and AFP. <i>Talanta</i> , 2018, 186, 24-28.   | 2.9 | 22        |
| 24 | A nonenzymatic DNA nanomachine for biomolecular detection by target recycling of hairpin DNA cascade amplification. <i>Biosensors and Bioelectronics</i> , 2018, 107, 40-46.  | 5.3 | 54        |
| 25 | The synthesis of a smart streptavidin-functionalized poly(N-isopropylacrylamide) composite and its application in the separation and detection of virus nucleic acid. <i>Talanta</i> , 2018, 181, 73-79.  | 2.9 | 2         |
| 26 | Fluorescence turn-on detection of target sequence DNA based on silicon nanodot-mediated quenching. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3209-3216.  | 1.9 | 19        |
| 27 | One-pot synthesis of the stable CdZnTeS quantum dots for the rapid and sensitive detection of copper-activated enzyme. <i>Talanta</i> , 2018, 185, 123-131.   | 2.9 | 14        |
| 28 | Self-assembled protein-enzyme nanoflower-based fluorescent sensing for protein biomarker. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7591-7598.   | 1.9 | 18        |
| 29 | Simple construction of ratiometric fluorescent probe for the detection of dopamine and tyrosinase by the naked eye. <i>Analyst</i> , 2018, 143, 5295-5301.  | 1.7 | 19        |
| 30 | Multipedal DNA Walker Biosensors Based on Catalyzed Hairpin Assembly and Isothermal Strand-Displacement Polymerase Reaction for the Chemiluminescent Detection of Proteins. <i>ACS Sensors</i> , 2018, 3, 1283-1290.                                | 4.0 | 54        |
| 31 | Silicon nanodot-based aptasensor for fluorescence turn-on detection of mucin 1 and targeted cancer cell imaging. <i>Analytica Chimica Acta</i> , 2018, 1035, 154-160.   | 2.6 | 41        |
| 32 | Smart Aptamer and Protein Functionalized Poly(N-isopropylacrylamide) Materials for Selective Extraction of Riboflavin in Beer. <i>Analytical Sciences</i> , 2018, 34, 815-821.  | 0.8 | 3         |
| 33 | Sensitive fluorescent detection of methyltransferase based on thermosensitive poly(N-isopropylacrylamide). <i>Talanta</i> , 2018, 189, 579-584.   | 2.9 | 3         |
| 34 | Rox-DNA Functionalized Silicon Nanodots for Ratiometric Detection of Mercury Ions in Live Cells. <i>Analytical Chemistry</i> , 2018, 90, 9796-9804.   | 3.2 | 33        |
| 35 | Three-Dimensional Immunosensing Platform Based on a Hybrid Nanoflower for Sensitive Detection of $\beta$ -Fetoprotein and Enterovirus 71. <i>ACS Applied Nano Materials</i> , 2018, 1, 4964-4971.   | 2.4 | 13        |
| 36 | Pentatwinned Cu Nanowires with Ultrathin Diameters below 20 nm and Their Use as Templates for the Synthesis of Au-Based Nanotubes. <i>ChemNanoMat</i> , 2017, 3, 190-195.   | 1.5 | 25        |

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|----|---|-----|-----------|
| 37 | Smart Composite Reagent Composed of Double-Stranded DNA-Templated Copper Nanoparticle and SYBR Green I for Hydrogen Peroxide Related Biosensing. <i>Analytical Chemistry</i> , 2017, 89, 3988-3995.                                       | 3.2 | 52        |
| 38 | The preparation of dual-functional hybrid nanoflower and its application in the ultrasensitive detection of disease-related biomarker. <i>Biosensors and Bioelectronics</i> , 2017, 92, 68-73.  | 5.3 | 87        |
| 39 | Highly sensitive fluorescence detection of heparin based on aggregation-induced emission of a tetraphenylethene derivative. <i>Biosensors and Bioelectronics</i> , 2017, 90, 245-250.   | 5.3 | 47        |
| 40 | Label-free silicon nanodots featured ratiometric fluorescent aptasensor for lysosomal imaging and pH measurement. <i>Biosensors and Bioelectronics</i> , 2017, 94, 478-484.   | 5.3 | 43        |
| 41 | One-Step Synthesis of Rox-DNA Functionalized CdZnTeS Quantum Dots for the Visual Detection of Hydrogen Peroxide and Blood Glucose. <i>Analytical Chemistry</i> , 2017, 89, 11628-11635.   | 3.2 | 68        |
| 42 | An enzyme-free DNA walker that moves on the surface of functionalized magnetic microparticles and its biosensing analysis. <i>Chemical Communications</i> , 2017, 53, 8486-8488.  | 2.2 | 43        |
| 43 | Sensing tyrosine enantiomers by using chiral CdSe/CdS quantum dots capped with N-acetyl-L-cysteine. <i>Talanta</i> , 2017, 163, 102-110.  | 2.9 | 29        |
| 44 | Highly sensitive chemiluminescence biosensor for protein detection based on the functionalized magnetic microparticles and the hybridization chain reaction. <i>Biosensors and Bioelectronics</i> , 2017, 87, 325-331.                    | 5.3 | 37        |
| 45 | Penta-twinned Copper Nanorods: Facile Synthesis via Seed-Mediated Growth and Their Tunable Plasmonic Properties. <i>Advanced Functional Materials</i> , 2016, 26, 1209-1216.  | 7.8 | 107       |
| 46 | Target-protecting dumbbell molecular probe against exonucleases digestion for sensitive detection of ATP and streptavidin. <i>Biosensors and Bioelectronics</i> , 2016, 83, 221-228.  | 5.3 | 27        |
| 47 | Delaying Photobleaching of a Light-Switch Complex for Real-Time Imaging of Single Viral Particle Uncoating. <i>Analytical Chemistry</i> , 2016, 88, 10675-10679.  | 3.2 | 3         |
| 48 | Target-induced structure switching of a hairpin aptamer for the fluorescence detection of zeatin. <i>Analytical Methods</i> , 2016, 8, 5957-5961.   | 1.3 | 9         |
| 49 | DNA Functionalized Fluorescent Quantum Dots for Bioanalytical Applications. <i>Chinese Journal of Chemistry</i> , 2016, 34, 317-325.  | 2.6 | 10        |
| 50 | Real-Time Imaging of Single HIV-1 Disassembly with Multicolor Viral Particles. <i>ACS Nano</i> , 2016, 10, 6273-6282.   | 7.3 | 33        |
| 51 | Superresolution microscopy with transient binding. <i>Current Opinion in Biotechnology</i> , 2016, 39, 8-16.  | 3.3 | 20        |
| 52 | Microfluidic generation of magnetic-fluorescent Janus microparticles for biomolecular detection. <i>Talanta</i> , 2016, 151, 126-131.   | 2.9 | 46        |
| 53 | Multifunctional Dumbbell-Shaped DNA-Templated Selective Formation of Fluorescent Silver Nanoclusters or Copper Nanoparticles for Sensitive Detection of Biomolecules. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 1786-1794. | 4.0 | 74        |
| 54 | A label-free colorimetric platform for DNA via target-catalyzed hairpin assembly and the peroxidase-like catalytic of graphene/Au-NPs hybrids. <i>Analytica Chimica Acta</i> , 2016, 902, 154-159.  | 2.6 | 43        |

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|----|---|-----|-----------|
| 55 | A new colorimetric platform for ultrasensitive detection of protein and cancer cells based on the assembly of nucleic acids and proteins. <i>Analytica Chimica Acta</i> , 2015, 880, 1-7.                             | 2.6 | 30        |
| 56 | Mechanism of alcohol-enhanced lucigenin chemiluminescence in alkaline solution. <i>Luminescence</i> , 2015, 30, 990-995.  | 1.5 | 11        |
| 57 | Aptamer-functionalized CdTe:Zn <sup>2+</sup> quantum dots for the detection of tomato systemin. <i>Analytical Methods</i> , 2015, 7, 7748-7752.   | 1.3 | 12        |
| 58 | An aqueous platinum nanotube based fluorescent immuno-assay for porcine reproductive and respiratory syndrome virus detection. <i>Talanta</i> , 2015, 144, 324-328.   | 2.9 | 7         |
| 59 | Enzymatic synthesis of a DNA-templated alloy nanocluster and its application in a fluorescence immunoassay. <i>RSC Advances</i> , 2015, 5, 55336-55339.   | 1.7 | 10        |
| 60 | High-throughput droplet analysis and multiplex DNA detection in the microfluidic platform equipped with a robust sample-introduction technique. <i>Analytica Chimica Acta</i> , 2015, 888, 110-117.                   | 2.6 | 5         |
| 61 | Facile Synthesis of Ag Nanorods with No Plasmon Resonance Peak in the Visible Region by Using Pd Decahedra of 16 nm in Size as Seeds. <i>ACS Nano</i> , 2015, 9, 10523-10532.   | 7.3 | 88        |
| 62 | Assembly-line manipulation of droplets in microfluidic platform for fluorescence encoding and simultaneous multiplexed DNA detection. <i>Talanta</i> , 2015, 134, 271-277.  | 2.9 | 12        |
| 63 | Rolling cycle amplification based single-color quantum dots-ruthenium complex assembling dyads for homogeneous and highly selective detection of DNA. <i>Analytica Chimica Acta</i> , 2015, 853, 495-500.             | 2.6 | 21        |
| 64 | Streptavidin sensor and its sensing mechanism based on water-soluble fluorescence conjugated polymer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 122, 441-446.              | 2.0 | 2         |
| 65 | Dual-color determination of protein via terminal protection of small-molecule-linked DNA and the enzymolysis of exonuclease III. <i>Biosensors and Bioelectronics</i> , 2014, 58, 205-208.                            | 5.3 | 31        |
| 66 | One-Pot Synthesis of DNA-CdTe:Zn <sup>2+</sup> Nanocrystals Using Na <sub>2</sub> TeO <sub>3</sub> as the Te source. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 3189-3194.                              | 4.0 | 29        |
| 67 | Highly sensitive and multiple DNA biosensor based on isothermal strand-displacement polymerase reaction and functionalized magnetic microparticles. <i>Biosensors and Bioelectronics</i> , 2014, 55, 318-323.         | 5.3 | 23        |
| 68 | Robust Aqueous Quantum Dots Capped with Peptide Ligands as Biomaterials: Facile Preparation, Good Stability, and Multipurpose Application. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 382-389. | 1.2 | 7         |
| 69 | One-pot aqueous phase synthesis of peptide-CdTe quantum dots. <i>RSC Advances</i> , 2014, 4, 20044-20047.   | 1.7 | 1         |
| 70 | One-Pot Synthesized Aptamer-Functionalized CdTe:Zn <sup>2+</sup> Quantum Dots for Tumor-Targeted Fluorescence Imaging in Vitro and in Vivo. <i>Analytical Chemistry</i> , 2013, 85, 5843-5849.                        | 3.2 | 118       |
| 71 | Graphene oxide and molecular beacons-based multiplexed DNA detection by synchronous fluorescence analysis. <i>Science China Chemistry</i> , 2013, 56, 380-386.  | 4.2 | 9         |
| 72 | A sensitive and selective label-free DNAzyme-based sensor for lead ions by using a conjugated polymer. <i>Analytical Methods</i> , 2012, 4, 1619.   | 1.3 | 30        |

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|----|--|-----|-----------|
| 73 | One-Pot Synthesized DNA-CdTe Quantum Dots Applied in a Biosensor for the Detection of Sequence-Specific Oligonucleotides. <i>Chemistry - A European Journal</i> , 2012, 18, 8296-8300.   | 1.7 | 51        |
| 74 | Determination of glucose and uric acid with bienzyme colorimetry on microfluidic paper-based analysis devices. <i>Biosensors and Bioelectronics</i> , 2012, 35, 363-368.   | 5.3 | 202       |
| 75 | Synthesis and characterization of high-quality water-soluble CdTe: Zn <sup>2+</sup> quantum dots capped by N-acetyl-L-cysteine via hydrothermal method. <i>Journal of Materials Chemistry</i> , 2011, 21, 13365.   | 6.7 | 67        |
| 76 | Impact of CdSe/ZnS quantum dots on the development of zebrafish embryos. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6895-6906.  | 0.8 | 18        |
| 77 | Immunomagnetic assay combined with CdSe/ZnS amplification of chemiluminescence for the detection of abscisic acid. <i>Science China Chemistry</i> , 2011, 54, 1298-1303.   | 4.2 | 9         |
| 78 | Determination of abscisic acid based on the fluorescent quenching of quantum dots. <i>Science China Chemistry</i> , 2010, 53, 245-249.   | 4.2 | 7         |
| 79 | A positively charged QDs-based FRET probe for micrococcal nuclease detection. <i>Analyst</i> , 2010, 135, 2394.  | 1.7 | 51        |
| 80 | Synthesis and Characterization of High-Quality Water-Soluble Near-Infrared-Emitting CdTe/CdS Quantum Dots Capped by N-Acetyl-L-cysteine Via Hydrothermal Method. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1293-1300.                                    | 1.5 | 148       |
| 81 | Controlled growth of monocrystalline rutile nanoshuttles in anatase TiO <sub>2</sub> particles under mild conditions. <i>CrystEngComm</i> , 2009, 11, 564.   | 1.3 | 21        |
| 82 | A novel chemiluminescent immunoassay for microcystin (MC) detection based on gold nanoparticles label and its application to MC analysis in aquatic environmental samples. <i>International Journal of Environmental Analytical Chemistry</i> , 2008, 88, 267-277. | 1.8 | 30        |
| 83 | A resonance light scattering method for determination of DNA using Ru(bpy) <sub>2</sub> PIP(V) <sup>2+</sup> . <i>Mikrochimica Acta</i> , 2007, 157, 181-187.  | 2.5 | 15        |
| 84 | Chemiluminescence Method for the Determination of DNA Using the Ru(bipy) <sub>3</sub> <sup>2+</sup> -Ce(IV) System. <i>Mikrochimica Acta</i> , 1999, 132, 105-109.   | 2.5 | 7         |
| 85 | Chemiluminescence Determination of Sulfite and Sulfur Dioxide Using Tris(1,10-Phenanthroline)Ruthenium-KMnO <sub>4</sub> System. <i>International Journal of Environmental Analytical Chemistry</i> , 1999, 75, 299-307.   | 1.8 | 13        |
| 86 | Chemiluminescence Determination of Thiourea Using Tris(2,2'-bipyridyl)ruthenium(II)-KMnO <sub>4</sub> System.. <i>Analytical Sciences</i> , 1999, 15, 381-383.   | 0.8 | 34        |
| 87 | Chemiluminescence Determination of Tetracyclines Using a Tris(2,2'-bipyridine)ruthenium(II) and Potassium Permanganate System.. <i>Analytical Sciences</i> , 1999, 15, 467-470.  | 0.8 | 34        |
| 88 | Development of a Direct Chemiluminescence Method for the Determination of Nucleic Acids Based upon Their Reaction with Cerium(IV) in the Presence of Rutheniumtris(dipyridine).. <i>Analytical Sciences</i> , 1999, 15, 885-888.                                   | 0.8 | 4         |
| 89 | Chemiluminescence determination of sulfite in sugar and of sulfur dioxide in air using the tris(2,2'-bipyridyl)ruthenium-KIO <sub>4</sub> system. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 362, 566-570.  | 1.5 | 11        |
| 90 | Development of a Chemiluminescence Method for the Simultaneous Determination of Ascorbic and Tartaric Acids Based Upon Their Reaction with Cerium(IV) in the Presence of Rutheniumtris(dipyridine). <i>Analytical Letters</i> , 1998, 31, 1553-1561.               | 1.0 | 13        |

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|----|--|-----|-----------|
| 91 | Chemiluminescence Determination of Sulfite in Sugar and Sulfur Dioxide in Air Using Ru(bipy) <sub>3</sub> <sup>2+</sup> +K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> System.. Analytical Sciences, 1998, 14, 737-740. | 0.8 | 12        |
| 92 | High-Performance Liquid Chromatographic Determination of Oxalic Acid in Tea Using Tris(1,3,5-trimethyl-4-hydroxybenzyl)ammonium Chloride. Journal of Chromatography B, 2002, 772, 1-6.                                 | 0.8 | 22        |
| 93 | Chemiluminescent Determination of 6-Mercaptopurine in Pharmaceutical Preparation.. Analytical Sciences, 1995, 11, 415-417.   | 0.8 | 27        |