

# Zhike He

## List of Publications by Year in descending order

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93  
papers

2,803  
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	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	Quantum Dot Nanobeacons for Single RNA Labeling and Imaging. <i>Journal of the American Chemical Society</i> , 2019, 141, 13454-13458.	6.6	67
11	Organic-inorganic nanoflowers: from design strategy to biomedical applications. <i>Nanoscale</i> , 2019, 11, 17179-17194.	2.8	58
12	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
13	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
14	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
15	A positively charged QDs-based FRET probe for micrococcal nuclease detection. <i>Analyst</i> , 2010, 135, 2394.	1.7	51
16	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
17	Label-free probes using DNA-templated silver nanoclusters as versatile reporters. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111926.	5.3	48
18	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

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19	Microfluidic generation of magnetic-fluorescent Janus microparticles for biomolecular detection. <i>Talanta</i> , 2016, 151, 126-131.	2.9	46
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	Real-Time Imaging of Single HIV-1 Disassembly with Multicolor Viral Particles. <i>ACS Nano</i> , 2016, 10, 6273-6282.	7.3	33
30	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
31	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
32	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
33	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
34	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
35	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
36	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

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37	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
38	Chemiluminescent Determination of 6-Mercaptopurine in Pharmaceutical Preparation.. <i>Analytical Sciences</i> , 1995, 11, 415-417.	0.8	27
39	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
40	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
41	Target-Induced Cascade Amplification for Homogeneous Virus Detection. <i>Analytical Chemistry</i> , 2019, 91, 15099-15106.	3.2	25
42	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
43	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
44	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
45	High-Performance Liquid Chromatographic Determination of Oxalic Acid in Tea Using Tris(1,1,1-trifluoroethyl)phosphine oxide. <i>Journal of Chromatography B</i> , 2018, 150, 10-18.	0.8	22
46	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
47	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
48	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
49	Superresolution microscopy with transient binding. <i>Current Opinion in Biotechnology</i> , 2016, 39, 8-16.	3.3	20
50	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
51	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
52	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
53	Self-assembled protein-enzyme nanoflower-based fluorescent sensing for protein biomarker. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7591-7598.	1.9	18
54	In situ 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

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55	DNAzyme Walker for Homogeneous Detection of Enterovirus EV71 and CVB3. <i>Analytical Chemistry</i> , 2021, 93, 5606-5611.	3.2	18
56	A resonance light scattering method for determination of DNA using Ru(bpy) <sub>2</sub> PIP(V) <sub>2</sub> <sup>+</sup> . <i>Mikrochimica Acta</i> , 2007, 157, 181-187.	2.5	15
57	Highly sensitive ratiometric fluorescent paper sensor for the urine assay of cancer. <i>Talanta</i> , 2019, 194, 199-204.	2.9	15
58	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
59	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
60	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
61	Three-Dimensional Immunosensing Platform Based on a Hybrid Nanoflower for Sensitive Detection of Î±-Fetoprotein and Enterovirus 71. <i>ACS Applied Nano Materials</i> , 2018, 1, 4964-4971.	2.4	13
62	Novel Method of Clickable Quantum Dot Construction for Bioorthogonal Labeling. <i>Analytical Chemistry</i> , 2021, 93, 777-783.	3.2	13
63	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.. <i>Analytical Sciences</i> , 1998, 14, 737-740.	0.8	12
64	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
65	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
66	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
67	Mechanism of alcohol-enhanced lucigenin chemiluminescence in alkaline solution. <i>Luminescence</i> , 2015, 30, 990-995.	1.5	11
68	Self-assembled fluorescent Ce(IV) coordination polymer as ratiometric probe for HIV antigen detection. <i>Analytica Chimica Acta</i> , 2019, 1084, 116-122.	2.6	11
69	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
70	DNA Functionalized Fluorescent Quantum Dots for Bioanalytical Applications. <i>Chinese Journal of Chemistry</i> , 2016, 34, 317-325.	2.6	10
71	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
72	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

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73	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
74	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
75	Determination of abscisic acid based on the fluorescent quenching of quantum dots. <i>Science China Chemistry</i> , 2010, 53, 245-249.	4.2	7
76	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
77	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
78	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
79	A fluorescence color card for point-of-care testing (POCT) and its application in simultaneous detection. <i>Analyst</i> , 2021, 146, 5074-5080.	1.7	7
80	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
81	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
82	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
83	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
84	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
85	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
86	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
87	Smart Aptamer and Protein Functionalized Poly( <i>N</i> -isopropylacrylamide) Materials for Selective Extraction of Riboflavin in Beer. <i>Analytical Sciences</i> , 2018, 34, 815-821.	0.8	3
88	Sensitive fluorescent detection of methyltransferase based on thermosensitive poly( <i>N</i> -isopropylacrylamide). <i>Talanta</i> , 2018, 189, 579-584.	2.9	3
89	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
90	The synthesis of a smart streptavidin-functionalized poly( <i>N</i> -isopropylacrylamide) composite and its application in the separation and detection of virus nucleic acid. <i>Talanta</i> , 2018, 181, 73-79.	2.9	2

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91	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
92	One-pot aqueous phase synthesis of peptideâ€“CdTe quantum dots. <i>RSC Advances</i> , 2014, 4, 20044-20047.	1.7	1
93	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