

# Zhi-Ke He

## List of Publications by Year in descending order

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59  
papers

2,121  
citations

236925

25  
h-index

233421

45  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2876  
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ fluorescence imaging of fungi via (1,3)- $\beta$ -D-glucan aptamer and tyramide signal amplification technology. <i>Chinese Chemical Letters</i> , 2022, , .	9.0	0
2	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.	5.8	5
3	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.	1.8	2
4	Point-of-care testing (POCT) of patients with a high concentration of uric acid by using alginate hydrogel microspheres embedded with CdZnTeS QDs and urate oxidase (Alg@QDs-UOx MSs). <i>Analyst, The</i> , 2021, 146, 949-955.	3.5	14
5	Novel Method of Clickable Quantum Dot Construction for Bioorthogonal Labeling. <i>Analytical Chemistry</i> , 2021, 93, 777-783.	6.5	13
6	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.	2.7	5
7	Glow-type chemiluminescent hydrogels for point-of-care testing (POCT) of cholesterol. <i>Analyst, The</i> , 2021, 146, 4775-4780.	3.5	12
8	DNAzyme Walker for Homogeneous Detection of Enterovirus EV71 and CVB3. <i>Analytical Chemistry</i> , 2021, 93, 5606-5611.	6.5	18
9	Three-dimensional magnetic enzyme-inorganic hybrid nanocomplexes with high reusability and stability to obtain lactose-free products. <i>Chemical Papers</i> , 2021, 75, 5353-5362.	2.2	1
10	DNAzyme Sensor Uses Chemiluminescence Resonance Energy Transfer for Rapid, Portable, and Ratiometric Detection of Metal Ions. <i>Analytical Chemistry</i> , 2021, 93, 10834-10840.	6.5	38
11	Quantum dots-based hydrogel microspheres for visual determination of lactate and simultaneous detection coupled with microfluidic device. <i>Microchemical Journal</i> , 2021, 171, 106801.	4.5	15
12	A fluorescence color card for point-of-care testing (POCT) and its application in simultaneous detection. <i>Analyst, The</i> , 2021, 146, 5074-5080.	3.5	7
13	A novel nano-beacon based on DNA functionalized QDs for intracellular telomerase activity monitoring. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127385.	7.8	15
14	Long-lasting chemiluminescence hydrogels made in situ. <i>Materials Letters</i> , 2020, 263, 127205.	2.6	9
15	DNA-templated quantum dots and their applications in biosensors, bioimaging, and therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9-17.	5.8	30
16	A digital quantification method for the detection of biomarkers on a microfluidic array chip. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126851.	7.8	12
17	Quantum Dot Nanobeacons for Single RNA Labeling and Imaging. <i>Journal of the American Chemical Society</i> , 2019, 141, 13454-13458.	13.7	67
18	Target-Induced Cascade Amplification for Homogeneous Virus Detection. <i>Analytical Chemistry</i> , 2019, 91, 15099-15106.	6.5	25

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19	Organic-inorganic nanoflowers: from design strategy to biomedical applications. <i>Nanoscale</i> , 2019, 11, 17179-17194.	5.6	58
20	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.	7.8	23
21	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.	3.7	7
22	In situ synthesis of photoluminescence-quenching nanopaper for rapid and robust detection of pathogens and proteins. <i>Chemical Communications</i> , 2019, 55, 2660-2663.	4.1	18
23	The ratiometric fluorescent detection of anthrax spore biomarker based on functionalized silicon nanodots. <i>Chemical Papers</i> , 2019, 73, 1753-1759.	2.2	5
24	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.	5.0	23
25	Highly sensitive ratiometric fluorescent paper sensor for the urine assay of cancer. <i>Talanta</i> , 2019, 194, 199-204.	5.5	15
26	A nonenzymatic DNA nanomachine for biomolecular detection by target recycling of hairpin DNA cascade amplification. <i>Biosensors and Bioelectronics</i> , 2018, 107, 40-46.	10.1	54
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.	5.5	14
28	Self-assembled protein-enzyme nanoflower-based fluorescent sensing for protein biomarker. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7591-7598.	3.7	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.	3.5	19
30	Rational construction of a DNA nanomachine for HIV nucleic acid ultrasensitive sensing. <i>Nanoscale</i> , 2018, 10, 17206-17211.	5.6	40
31	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.	7.8	54
32	Rox-DNA Functionalized Silicon Nanodots for Ratiometric Detection of Mercury Ions in Live Cells. <i>Analytical Chemistry</i> , 2018, 90, 9796-9804.	6.5	33
33	Three-Dimensional Immunosensing Platform Based on a Hybrid Nanoflower for Sensitive Detection of $\alpha$ -Fetoprotein and Enterovirus 71. <i>ACS Applied Nano Materials</i> , 2018, 1, 4964-4971.	5.0	13
34	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.	6.5	52
35	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.	10.1	87
36	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.	6.5	68

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37	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.	4.1	43
38	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.	10.1	37
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.	10.1	27
40	Delaying Photobleaching of a Light-Switch Complex for Real-Time Imaging of Single Viral Particle Uncoating. <i>Analytical Chemistry</i> , 2016, 88, 10675-10679.	6.5	3
41	Real-Time Imaging of Single HIV-1 Disassembly with Multicolor Viral Particles. <i>ACS Nano</i> , 2016, 10, 6273-6282.	14.6	33
42	Superresolution microscopy with transient binding. <i>Current Opinion in Biotechnology</i> , 2016, 39, 8-16.	6.6	20
43	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.	8.0	74
44	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.	5.4	30
45	Aptamer-functionalized CdTe:Zn <sup>2+</sup> quantum dots for the detection of tomato systemin. <i>Analytical Methods</i> , 2015, 7, 7748-7752.	2.7	12
46	Facile synthesis and characterization of highly luminescent UV-blue-emitting ZnSe/ZnS quantum dots via a one-step hydrothermal method. <i>RSC Advances</i> , 2014, 4, 47005-47011.	3.6	19
47	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.	8.0	29
48	New fluorescent pH sensor based on label-free silicon nanodots. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 795-801.	7.8	67
49	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.	10.1	23
50	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.	6.5	118
51	Chemiluminescence biosensors for DNA detection using graphene oxide and a horseradish peroxidase-mimicking DNAzyme. <i>Chemical Communications</i> , 2012, 48, 1126-1128.	4.1	145
52	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.	3.3	51
53	Determination of glucose and uric acid with bienzyme colorimetry on microfluidic paper-based analysis devices. <i>Biosensors and Bioelectronics</i> , 2012, 35, 363-368.	10.1	202
54	Integrated parallel microfluidic device for simultaneous preparation of multiplex optical-encoded microbeads with distinct quantum dot barcodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 13380.	6.7	34

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55	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
56	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.	3.1	148
57	Chemiluminescence Method for the Determination of Glutathione in Human Serum Using the Ru(phen) <sub>3</sub> <sup>2+</sup> KMnO <sub>4</sub> System. <i>Mikrochimica Acta</i> , 2006, 155, 431-434.	5.0	24
58	Determination of DNA by Use of the Molecular "Light Switch" Complex of Ru(bipy) <sub>2</sub> (dppz) <sup>2+</sup> . <i>Mikrochimica Acta</i> , 2000, 134, 57-62.	5.0	21
59	Spectral Studies on the Interaction of Ru(phen) <sub>2</sub> (dppx) <sup>2+</sup> (phen=1.10-phenanthroline, dppx=7,8-dimethyldipyrido [3,2-a:2',3'-c] phenazine) and DNA. <i>Spectroscopy Letters</i> , 1999, 32, 931-939.	1.0	5