

Zhi-Ke He

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2433789/publications.pdf>

Version: 2024-02-01

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 | 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 |
| 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. | 3.1 | 148 |
| 3 | 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 |
| 4 | One-Pot Synthesized Aptamer-Functionalized CdTe:Zn ²⁺ Quantum Dots for Tumor-Targeted Fluorescence Imaging in Vitro and in Vivo. <i>Analytical Chemistry</i> , 2013, 85, 5843-5849. | 6.5 | 118 |
| 5 | 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 |
| 6 | Multifunctional Dumbbell-Shaped DNA-Templated Selective Formation of Fluorescent Silver Nanoclusters or Copper Nanoparticles for Sensitive Detection of Biomolecules. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1786-1794. | 8.0 | 74 |
| 7 | 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 |
| 8 | Synthesis and characterization of high-quality water-soluble CdTe: Zn ²⁺ quantum dots capped by N-acetyl-L-cysteine via hydrothermal method. <i>Journal of Materials Chemistry</i> , 2011, 21, 13365. | 6.7 | 67 |
| 9 | New fluorescent pH sensor based on label-free silicon nanodots. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 795-801. | 7.8 | 67 |
| 10 | Quantum Dot Nanobeacons for Single RNA Labeling and Imaging. <i>Journal of the American Chemical Society</i> , 2019, 141, 13454-13458. | 13.7 | 67 |
| 11 | Organic-inorganic nanoflowers: from design strategy to biomedical applications. <i>Nanoscale</i> , 2019, 11, 17179-17194. | 5.6 | 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. | 10.1 | 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. | 7.8 | 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. | 6.5 | 52 |
| 15 | 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 |
| 16 | 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 |
| 17 | Rational construction of a DNA nanomachine for HIV nucleic acid ultrasensitive sensing. <i>Nanoscale</i> , 2018, 10, 17206-17211. | 5.6 | 40 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Real-Time Imaging of Single HIV-1 Disassembly with Multicolor Viral Particles. <i>ACS Nano</i> , 2016, 10, 6273-6282. | 14.6 | 33 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | One-Pot Synthesis of DNA-CdTe:Zn ²⁺ Nanocrystals Using Na ₂ TeO ₃ as the Te source. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3189-3194. | 8.0 | 29 |
| 26 | 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 |
| 27 | Target-Induced Cascade Amplification for Homogeneous Virus Detection. <i>Analytical Chemistry</i> , 2019, 91, 15099-15106. | 6.5 | 25 |
| 28 | Chemiluminescence Method for the Determination of Glutathione in Human Serum Using the Ru(phen) ₃ ²⁺ - KMnO ₄ System. <i>Mikrochimica Acta</i> , 2006, 155, 431-434. | 5.0 | 24 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | Determination of DNA by Use of the Molecular "Light Switch" Complex of Ru(bipy) ₂ (dppz) ²⁺ . <i>Mikrochimica Acta</i> , 2000, 134, 57-62. | 5.0 | 21 |
| 33 | Superresolution microscopy with transient binding. <i>Current Opinion in Biotechnology</i> , 2016, 39, 8-16. | 6.6 | 20 |
| 34 | 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 |
| 35 | 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 |
| 36 | Self-assembled protein-enzyme nanoflower-based fluorescent sensing for protein biomarker. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7591-7598. | 3.7 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | <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. | 4.1 | 18 |
| 38 | DNAzyme Walker for Homogeneous Detection of Enterovirus EV71 and CVB3. <i>Analytical Chemistry</i> , 2021, 93, 5606-5611. | 6.5 | 18 |
| 39 | Highly sensitive ratiometric fluorescent paper sensor for the urine assay of cancer. <i>Talanta</i> , 2019, 194, 199-204. | 5.5 | 15 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | Three-Dimensional Immunosensing Platform Based on a Hybrid Nanoflower for Sensitive Detection of α -Fetoprotein and Enterovirus 71. <i>ACS Applied Nano Materials</i> , 2018, 1, 4964-4971. | 5.0 | 13 |
| 45 | Novel Method of Clickable Quantum Dot Construction for Bioorthogonal Labeling. <i>Analytical Chemistry</i> , 2021, 93, 777-783. | 6.5 | 13 |
| 46 | Aptamer-functionalized CdTe:Zn ²⁺ quantum dots for the detection of tomato systemin. <i>Analytical Methods</i> , 2015, 7, 7748-7752. | 2.7 | 12 |
| 47 | 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 |
| 48 | Glow-type chemiluminescent hydrogels for point-of-care testing (POCT) of cholesterol. <i>Analyst, The</i> , 2021, 146, 4775-4780. | 3.5 | 12 |
| 49 | Long-lasting chemiluminescence hydrogels made in situ. <i>Materials Letters</i> , 2020, 263, 127205. | 2.6 | 9 |
| 50 | 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 |
| 51 | 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 |
| 52 | Spectral Studies on the Interaction of Ru(phen) ₂ (dppx) ²⁺ (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 |
| 53 | The ratiometric fluorescent detection of anthrax spore biomarker based on functionalized silicon nanodots. <i>Chemical Papers</i> , 2019, 73, 1753-1759. | 2.2 | 5 |
| 54 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | In situ fluorescence imaging of fungi via (1,3)- β -D-glucan aptamer and tyramide signal amplification technology. <i>Chinese Chemical Letters</i> , 2022, , . | 9.0 | 0 |