

Zhihe Qing

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

4,351
citations

101384

36
h-index

106150

65
g-index

78
all docs

78
docs citations

78
times ranked

5162
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasmall near-infrared gold nanoclusters for tumor fluorescence imaging in vivo. <i>Nanoscale</i> , 2010, 2, 2244.	2.8	336
2	Activatable aptamer probe for contrast-enhanced in vivo cancer imaging based on cell membrane protein-triggered conformation alteration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3900-3905.	3.3	283
3	Poly(thymine)-Templated Selective Formation of Fluorescent Copper Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9719-9722.	7.2	278
4	In Situ Amplification-Based Imaging of RNA in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11574-11585.	7.2	170
5	An intramolecular catalytic hairpin assembly on a DNA tetrahedron for mRNA imaging in living cells: improving reaction kinetics and signal stability. <i>Chemical Science</i> , 2020, 11, 1985-1990.	3.7	147
6	Concatemeric dsDNA-Templated Copper Nanoparticles Strategy with Improved Sensitivity and Stability Based on Rolling Circle Replication and Its Application in MicroRNA Detection. <i>Analytical Chemistry</i> , 2014, 86, 6976-6982.	3.2	129
7	One-step engineering of silver nanoclusters aptamer assemblies as luminescent labels to target tumor cells. <i>Nanoscale</i> , 2012, 4, 110-112.	2.8	123
8	Poly(Thymine)-Templated Fluorescent Copper Nanoparticles for Ultrasensitive Label-Free Nuclease Assay and Its Inhibitors Screening. <i>Analytical Chemistry</i> , 2013, 85, 12138-12143.	3.2	120
9	Graphene biosensors for bacterial and viral pathogens. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112471.	5.3	113
10	A TP-FRET-based two-photon fluorescent probe for ratiometric visualization of endogenous sulfur dioxide derivatives in mitochondria of living cells and tissues. <i>Chemical Communications</i> , 2016, 52, 10289-10292.	2.2	110
11	Natural Gelatin Capped Mesoporous Silica Nanoparticles for Intracellular Acid-Triggered Drug Delivery. <i>Langmuir</i> , 2013, 29, 12804-12810.	1.6	105
12	Poly(thymine)-Templated Copper Nanoparticles as a Fluorescent Indicator for Hydrogen Peroxide and Oxidase-Based Biosensing. <i>Analytical Chemistry</i> , 2015, 87, 7454-7460.	3.2	102
13	Detection of Circulating Tumor DNA in Human Blood via DNA-Mediated Surface-Enhanced Raman Spectroscopy of Single-Walled Carbon Nanotubes. <i>Analytical Chemistry</i> , 2016, 88, 4759-4765.	3.2	98
14	A Glucose-Powered Activatable Nanozyme Breaking pH and H ₂ O ₂ Limitations for Treating Diabetic Infections. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23534-23539.	7.2	96
15	Ratiometric Visualization of NO/H ₂ S Cross-Talk in Living Cells and Tissues Using a Nitroxyl-Responsive Two-Photon Fluorescence Probe. <i>Analytical Chemistry</i> , 2017, 89, 4587-4594.	3.2	92
16	Recent progress in copper nanocluster-based fluorescent probing: a review. <i>Mikrochimica Acta</i> , 2019, 186, 670.	2.5	92
17	Programmed packaging of mesoporous silica nanocarriers for matrix metalloprotease 2-triggered tumor targeting and release. <i>Biomaterials</i> , 2015, 58, 35-45.	5.7	88
18	In situ formation of fluorescent copper nanoparticles for ultrafast zero-background Cu ²⁺ detection and its toxicides screening. <i>Biosensors and Bioelectronics</i> , 2016, 78, 471-476.	5.3	87

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19	Progress in biosensor based on DNA-templated copper nanoparticles. <i>Biosensors and Bioelectronics</i> , 2019, 137, 96-109.	5.3	82
20	A Ratiometric Two-Photon Fluorescent Cysteine Probe with Well-Resolved Dual Emissions Based on Intramolecular Charge Transfer-Mediated Two-Photon-FRET Integration Mechanism. <i>ACS Sensors</i> , 2018, 3, 2415-2422.	4.0	81
21	Pt ^{II} -S Bond-Mediated Nanoflakes for High-Fidelity Intracellular Applications by Avoiding Thiol Cleavage. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14044-14048.	7.2	79
22	Visual and Portable Strategy for Copper(II) Detection Based on a Striplike Poly(Thymine)-Caged and Microwell-Printed Hydrogel. <i>Analytical Chemistry</i> , 2014, 86, 11263-11268.	3.2	77
23	Target-Activated Modulation of Dual-Color and Two-Photon Fluorescence of Graphene Quantum Dots for in Vivo Imaging of Hydrogen Peroxide. <i>Analytical Chemistry</i> , 2016, 88, 4833-4840.	3.2	77
24	Target-Catalyzed Dynamic Assembly-Based Pyrene Excimer Switching for Enzyme-Free Nucleic Acid Amplified Detection. <i>Analytical Chemistry</i> , 2014, 86, 4934-4939.	3.2	76
25	Real-Time Visualizing Mitophagy-Specific Viscosity Dynamic by Mitochondria-Anchored Molecular Rotor. <i>Analytical Chemistry</i> , 2019, 91, 8574-8581.	3.2	75
26	Direct Fluorescent Detection of Blood Potassium by Ion-Selective Formation of Intermolecular G-Quadruplex and Ligand Binding. <i>Analytical Chemistry</i> , 2016, 88, 9285-9292.	3.2	63
27	Two-Photon Sensing and Imaging of Endogenous Biological Cyanide in Plant Tissues Using Graphene Quantum Dot/Gold Nanoparticle Conjugate. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19509-19515.	4.0	59
28	dsDNA-specific fluorescent copper nanoparticles as a "green" nano-dye for polymerization-mediated biochemical analysis. <i>Chemical Communications</i> , 2014, 50, 12746-12748.	2.2	58
29	A highly sensitive electrochemical assay for silver ion detection based on un-labeled C-rich ssDNA probe and controlled assembly of MWCNTs. <i>Talanta</i> , 2012, 94, 178-183.	2.9	56
30	Adsorption-improved MoSe ₂ nanosheet by heteroatom doping and its application for simultaneous detection and removal of mercury (II). <i>Journal of Hazardous Materials</i> , 2021, 413, 125470.	6.5	56
31	SERS assay of telomerase activity at single-cell level and colon cancer tissues via quadratic signal amplification. <i>Biosensors and Bioelectronics</i> , 2016, 77, 673-680.	5.3	53
32	dsDNA-templated fluorescent copper nanoparticles: poly(AT-TA)-dependent formation. <i>RSC Advances</i> , 2014, 4, 61092-61095.	1.7	52
33	In Situ Amplification-Based Imaging of RNA in Living Cells. <i>Angewandte Chemie</i> , 2019, 131, 11698-11709.	1.6	46
34	In Vivo Lighted Fluorescence via Fenton Reaction: Approach for Imaging of Hydrogen Peroxide in Living Systems. <i>Analytical Chemistry</i> , 2016, 88, 3998-4003.	3.2	45
35	Molecular Engineering of β -Substituted Acrylate Ester Template for Efficient Fluorescence Probe of Hydrogen Polysulfides. <i>Analytical Chemistry</i> , 2018, 90, 881-887.	3.2	43
36	A sensitive detection of T4 polynucleotide kinase activity based on β -cyclodextrin polymer enhanced fluorescence combined with an exonuclease reaction. <i>Chemical Communications</i> , 2015, 51, 1815-1818.	2.2	41

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37	Cell-Surface-Anchored Ratiometric DNA Nanoswitch for Extracellular ATP Imaging. ACS Sensors, 2019, 4, 1648-1653.	4.0	33
38	Photoactivatable fluorescent probes for spatiotemporal-controlled biosensing and imaging. TrAC - Trends in Analytical Chemistry, 2020, 125, 115811.	5.8	33
39	Colorimetric multiplexed analysis of mercury and silver ions by using a unimolecular DNA probe and unmodified gold nanoparticles. Analytical Methods, 2012, 4, 3320.	1.3	31
40	DNA-coded metal nano-fluorophores: Preparation, properties and applications in biosensing and bioimaging. Nano Today, 2021, 36, 101021.	6.2	31
41	Quantitative Monitoring of Hypoxia-Induced Intracellular Acidification in Lung Tumor Cells and Tissues Using Activatable Surface-Enhanced Raman Scattering Nanoprobes. Analytical Chemistry, 2016, 88, 11852-11859.	3.2	29
42	DNA-Templated Fluorescent Nanoclusters for Metal Ions Detection. Molecules, 2019, 24, 4189.	1.7	29
43	SERS monitoring the dynamics of local pH in lysosome of living cells during photothermal therapy. Analyst, The, 2016, 141, 3224-3227.	1.7	26
44	A Reversible Nanolamp for Instantaneous Monitoring of Cyanide Based on an Elsner-Like Reaction. Analytical Chemistry, 2016, 88, 9759-9765.	3.2	26
45	Al centre-powered graphitic nanozyme with high catalytic efficiency for pH-independent chemodynamic therapy of cancer. Chemical Communications, 2020, 56, 6285-6288.	2.2	26
46	An Activatable Nanoenzyme Reactor for Coenhanced Chemodynamic and Starving Therapy Against Tumor Hypoxia and Antioxidant Defense System. CCS Chemistry, 2021, 3, 1217-1230.	4.6	26
47	DNA-templated in situ growth of silver nanoparticles on mesoporous silica nanospheres for smart intracellular GSH-controlled release. Chemical Communications, 2015, 51, 6544-6547.	2.2	24
48	Oligonucleotide-templated rapid formation of fluorescent gold nanoclusters and its application for Hg ²⁺ ions sensing. Talanta, 2016, 161, 170-176.	2.9	22
49	Engineering a unimolecular multifunctional DNA probe for analysis of Hg ²⁺ and Ag ⁺ . Analytical Methods, 2012, 4, 345.	1.3	21
50	Zn ²⁺ -Coordination-Driven RNA Assembly with Retained Integrity and Biological Functions. Angewandte Chemie - International Edition, 2021, 60, 22970-22976.	7.2	21
51	Technologies for analysis of circulating tumour DNA: Progress and promise. TrAC - Trends in Analytical Chemistry, 2017, 97, 36-49.	5.8	20
52	Synchronous screening of multiplexed biomarkers of Alzheimer's disease by a length-encoded aerolysin nanopore-integrated triple-helix molecular switch. Chemical Communications, 2019, 55, 6433-6436.	2.2	19
53	Ligation-rolling circle amplification combined with β -cyclodextrin mediated stemless molecular beacon for sensitive and specific genotyping of single-nucleotide polymorphism. Talanta, 2014, 125, 306-312.	2.9	17
54	Thiol-suppressed I2-etching of AuNRs: acetylcholinesterase-mediated colorimetric detection of organophosphorus pesticides. Mikrochimica Acta, 2020, 187, 497.	2.5	16

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55	Human Serum Albumin-Occupying-Based Fluorescence Turn-On Analysis of Antiepileptic Drug Tiagabine Hydrochloride. <i>Analytical Chemistry</i> , 2020, 92, 3555-3562.	3.2	16
56	Target-triggered hairpin-free chain-branching growth of DNA dendrimers for contrast-enhanced imaging in living cells by avoiding signal dispersion. <i>Chinese Chemical Letters</i> , 2022, 33, 773-777.	4.8	16
57	A Target-Lighted dsDNA-Indicator for High-Performance Monitoring of Mercury Pollution and Its Antagonists Screening. <i>Environmental Science & Technology</i> , 2017, 51, 11884-11890.	4.6	15
58	Visual Biopsy by Hydrogen Peroxide-Induced Signal Amplification. <i>Analytical Chemistry</i> , 2016, 88, 10728-10735.	3.2	14
59	Direct Detection of Nucleic Acid with Minimizing Background and Improving Sensitivity Based on a Conformation-Discriminating Indicator. <i>ACS Sensors</i> , 2017, 2, 1198-1204.	4.0	14
60	Cytoplasmic Protein-Powered In Situ Fluorescence Amplification for Intracellular Assay of Low-Abundance Analyte. <i>Analytical Chemistry</i> , 2019, 91, 15179-15186.	3.2	13
61	Colorimetric aminotriazole assay based on catalase deactivation-dependent longitudinal etching of gold nanorods. <i>Mikrochimica Acta</i> , 2019, 186, 565.	2.5	12
62	MIL/Aptamer as a Nanosensor Capable of Resisting Nonspecific Displacement for ATP Imaging in Living Cells. <i>ACS Omega</i> , 2019, 4, 9074-9080.	1.6	12
63	Natural Peptide Probe Screened for High-Performance Fluorescent Sensing of Copper Ion: Especially Sensitivity, Rapidity, and Environment-Friendliness. <i>ACS Omega</i> , 2019, 4, 793-800.	1.6	12
64	Human serum albumin as an intrinsic signal amplification amplifier for ultrasensitive assays of the prostate-specific antigen in human plasma. <i>Chemical Communications</i> , 2020, 56, 1843-1846.	2.2	12
65	Pt ^S Bond-Mediated Nanoflares for High-Fidelity Intracellular Applications by Avoiding Thiol Cleavage. <i>Angewandte Chemie</i> , 2020, 132, 14148-14152.	1.6	12
66	A persistent luminescent nanobeacon for practical detection of lead ions via avoiding background interference. <i>Analytica Chimica Acta</i> , 2022, 1198, 339555.	2.6	9
67	A Polymeric Nanobeacon for Monitoring the Fluctuation of Hydrogen Polysulfides during Fertilization and Embryonic Development. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	9
68	Self-Immolative Dye-Doped Polymeric Probe for Precisely Imaging Hydroxyl Radicals by Avoiding Leakage. <i>Analytical Chemistry</i> , 2021, 93, 12944-12953.	3.2	5
69	A dsDNA-lighted fluorophore for monitoring protein-ligand interaction through binding-mediated DNA protection. <i>Science China Chemistry</i> , 2018, 61, 1630-1636.	4.2	4
70	Zn ²⁺ -Coordination-Driven RNA Assembly with Retained Integrity and Biological Functions. <i>Angewandte Chemie</i> , 2021, 133, 23152-23158.	1.6	4
71	A Glucose-Powered Activatable Nanozyme Breaking pH and H ₂ O ₂ Limitations for Treating Diabetic Infections. <i>Angewandte Chemie</i> , 2021, 133, 23726-23731.	1.6	4
72	Editorial: Advances in Nucleic Acid-Based Biosensors and Imaging. <i>Frontiers in Chemistry</i> , 2022, 10, .	1.8	3

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73	Visualization of Long Noncoding RNA MEG3 in Living Cells by a Triple-Helix-Powered 3D Catcher. ACS Applied Bio Materials, 2020, 3, 2588-2596.	2.3	2
74	Bidirectional modulation of microRNA with a clamp-like triplex switch for enhanced and programmed gene therapy. Chemical Communications, 2021, 57, 12131-12134.	2.2	0
75	Frontispiz: A Glucoseâ€Powered Activatable Nanozyme Breaking pH and H ₂ O ₂ Limitations for Treating Diabetic Infections. Angewandte Chemie, 2021, 133, .	1.6	0
76	Frontispiece: A Glucoseâ€Powered Activatable Nanozyme Breaking pH and H ₂ O ₂ Limitations for Treating Diabetic Infections. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0
77	A Polymeric Nanobeacon for Monitoring the Fluctuation of Hydrogen Polysulfides During Fertilization and Embryonic Development. Angewandte Chemie, 0, , .	1.6	0