

Zhi-Qian Guo

List of Publications by Year in descending order

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109
papers

11,634
citations

28274

55
h-index

26613

107
g-index

118
all docs

118
docs citations

118
times ranked

10454
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in the development of near-infrared fluorescent probes for bioimaging applications. <i>Chemical Society Reviews</i> , 2014, 43, 16-29.	38.1	1,557
2	Recent progress on polymer-based fluorescent and colorimetric chemosensors. <i>Chemical Society Reviews</i> , 2011, 40, 79-93.	38.1	897
3	<i>In Vivo</i> and <i>In Situ</i> Tracking Cancer Chemotherapy by Highly Photostable NIR Fluorescent Theranostic Prodrug. <i>Journal of the American Chemical Society</i> , 2014, 136, 3579-3588.	13.7	494
4	Real-Time Tracking and <i>In Vivo</i> Visualization of β -Galactosidase Activity in Colorectal Tumor with a Ratiometric Near-Infrared Fluorescent Probe. <i>Journal of the American Chemical Society</i> , 2016, 138, 5334-5340.	13.7	432
5	A highly selective ratiometric near-infrared fluorescent cyanine sensor for cysteine with remarkable shift and its application in bioimaging. <i>Chemical Science</i> , 2012, 3, 2760.	7.4	416
6	Far-Red and Near-IR AIE-Active Fluorescent Organic Nanoprobes with Enhanced Tumor Targeting Efficacy: Shape-Specific Effects. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7275-7280.	13.8	361
7	Rational Design of Near-Infrared Aggregation-Induced-Emission-Active Probes: <i>In Situ</i> Mapping of Amyloid- β Plaques with Ultrasensitivity and High-Fidelity. <i>Journal of the American Chemical Society</i> , 2019, 141, 3171-3177.	13.7	341
8	Förster Resonance Energy Transfer Switchable Self-Assembled Micellar Nanoprobe: Ratiometric Fluorescent Trapping of Endogenous H ₂ S Generation via Fluvastatin-Stimulated Upregulation. <i>Journal of the American Chemical Society</i> , 2015, 137, 8490-8498.	13.7	268
9	A dual-response BODIPY-based fluorescent probe for the discrimination of glutathione from cysteine and homocysteine. <i>Chemical Science</i> , 2015, 6, 2584-2589.	7.4	263
10	Dicyanomethylene-4H-pyran chromophores for OLED emitters, logic gates and optical chemosensors. <i>Chemical Communications</i> , 2012, 48, 6073.	4.1	258
11	A Fluorophore Capable of Crossword Puzzles and Logic Memory. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5549-5553.	13.8	251
12	A Benzobisimidazolium-Based Fluorescent and Colorimetric Chemosensor for CO ₂ . <i>Journal of the American Chemical Society</i> , 2012, 134, 17846-17849.	13.7	209
13	Recognition and sensing of various species using boronic acid derivatives. <i>Chemical Communications</i> , 2012, 48, 5956.	4.1	209
14	Self-Assembly Solid-State Enhanced Red Emission of Quinolinemalononitrile: Optical Waveguides and Stimuli Response. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 192-198.	8.0	183
15	A novel NIR fluorescent turn-on sensor for the detection of pyrophosphate anion in complete water system. <i>Chemical Communications</i> , 2012, 48, 1784.	4.1	182
16	A colorimetric and fluorescent turn-on sensor for pyrophosphate anion based on a dicyanomethylene-4H-chromene framework. <i>Chemical Communications</i> , 2008, , 5143.	4.1	171
17	Near-Infrared Cell-Permeable Hg ²⁺ -Selective Ratiometric Fluorescent Chemodosimeters and Fast Indicator Paper for MeHg ⁺ Based on Tricarbocyanines. <i>Chemistry - A European Journal</i> , 2010, 16, 14424-14432.	3.3	163
18	Hydrophilic Copolymer Bearing Dicyanomethylene-4H-pyran Moiety As Fluorescent Film Sensor for Cu ²⁺ and Pyrophosphate Anion. <i>Macromolecules</i> , 2010, 43, 739-744.	4.8	159

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19	Insight into aggregation-induced emission characteristics of red-emissive quinoline-malononitrile by cell tracking and real-time trypsin detection. <i>Chemical Science</i> , 2014, 5, 1383.	7.4	159
20	A cyanine-based fluorescent sensor for detecting endogenous zinc ions in live cells and organisms. <i>Biomaterials</i> , 2012, 33, 7818-7827.	11.4	158
21	Selective homocysteine turn-on fluorescent probes and their bioimaging applications. <i>Chemical Communications</i> , 2014, 50, 6967.	4.1	146
22	An enzyme-activatable probe liberating AIEgens: on-site sensing and long-term tracking of β -galactosidase in ovarian cancer cells. <i>Chemical Science</i> , 2019, 10, 398-405.	7.4	146
23	Enabling Light Work in Helical Self-Assembly for Dynamic Amplification of Chirality with Photoreversibility. <i>Journal of the American Chemical Society</i> , 2016, 138, 2219-2224.	13.7	142
24	Dual-channel NIR activatable theranostic prodrug for in vivo spatiotemporal tracking thiol-triggered chemotherapy. <i>Chemical Science</i> , 2016, 7, 4958-4965.	7.4	135
25	High-Performance Quinoline-Malononitrile Core as a Building Block for the Diversity-Oriented Synthesis of AIEgens. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9812-9825.	13.8	134
26	Development of a Small Molecule Probe Capable of Discriminating Cysteine, Homocysteine, and Glutathione with Three Distinct Turn-On Fluorescent Outputs. <i>Chemistry - A European Journal</i> , 2014, 20, 11471-11478.	3.3	131
27	A molecular design strategy toward enzyme-activated probes with near-infrared I and II fluorescence for targeted cancer imaging. <i>Chemical Science</i> , 2019, 10, 7222-7227.	7.4	123
28	Recent progress on molecularly near-infrared fluorescent probes for chemotherapy and phototherapy. <i>Coordination Chemistry Reviews</i> , 2021, 427, 213556.	18.8	120
29	A new rhodamine derivative bearing benzothiazole and thiocarbonyl moieties as a highly selective fluorescent and colorimetric chemodosimeter for Hg ²⁺ . <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 948-953.	7.8	97
30	A naked-eye and ratiometric near-infrared probe for palladium via modulation of a π -conjugated system of cyanines. <i>Chemical Communications</i> , 2014, 50, 13525-13528.	4.1	97
31	A Sequential Dual-Lock Strategy for Photoactivatable Chemiluminescent Probes Enabling Bright Duplex Optical Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9059-9066.	13.8	92
32	Highly selective ratiometric fluorescent probe for Au ³⁺ and its application to bioimaging. <i>Biosensors and Bioelectronics</i> , 2013, 49, 438-441.	10.1	85
33	In Situ Ratiometric Quantitative Tracing of Intracellular Leucine Aminopeptidase Activity via an Activatable Near-Infrared Fluorescent Probe. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26622-26629.	8.0	85
34	Synthesis of a highly Zn ²⁺ -selective cyanine-based probe and its use for tracing endogenous zinc ions in cells and organisms. <i>Nature Protocols</i> , 2014, 9, 1245-1254.	12.0	83
35	Molecularly precise self-assembly of theranostic nanoprobe within a single-molecular framework for in vivo tracking of tumor-specific chemotherapy. <i>Chemical Science</i> , 2018, 9, 4959-4969.	7.4	81
36	Constructing NIR silica-cyanine hybrid nanocomposite for bioimaging in vivo: a breakthrough in photo-stability and bright fluorescence with large Stokes shift. <i>Chemical Science</i> , 2013, 4, 1221.	7.4	76

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37	A sequence-activated AND logic dual-channel fluorescent probe for tracking programmable drug release. <i>Chemical Science</i> , 2018, 9, 6176-6182.	7.4	76
38	Activatable near-infrared emission-guided on-demand administration of photodynamic anticancer therapy with a theranostic nanoprobe. <i>Chemical Science</i> , 2019, 10, 2785-2790.	7.4	75
39	De novo strategy with engineering anti-Kasha/Kasha fluorophores enables reliable ratiometric quantification of biomolecules. <i>Nature Communications</i> , 2020, 11, 793.	12.8	74
40	Multiple Logic Fluorescent Thermometer System Based on N-Isopropylmethacrylamide Copolymer Bearing Dicyanomethylene-4H-pyran Moiety. <i>Macromolecules</i> , 2009, 42, 1448-1453.	4.8	73
41	High Fidelity Trapping of Spatial Temporal Mitochondria with Rational Design of Aggregation Induced Emission Probes. <i>Advanced Functional Materials</i> , 2019, 29, 1808153.	14.9	73
42	Circularly Polarized Fluorescence Resonance Energy Transfer (CPL-FRET) for Efficient Chirality Transmission within an Intermolecular System. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24549-24557.	13.8	72
43	GSH-Activated NIR Fluorescent Prodrug for Podophyllotoxin Delivery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29496-29504.	8.0	67
44	Transforming the recognition site of 4-hydroxyaniline into 4-methoxyaniline grafted onto a BODIPY core switches the selective detection of peroxynitrite to hypochlorous acid. <i>Chemical Communications</i> , 2016, 52, 2075-2078.	4.1	66
45	Long wavelength AIEgen of quinoline-malononitrile. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2640-2646.	5.5	63
46	Enzyme-activatable fluorescent probes for β -galactosidase: from design to biological applications. <i>Chemical Science</i> , 2021, 12, 9885-9894.	7.4	60
47	A Multiaddressable Photochromic Bisthiénylene with Sequence-Dependent Responses: Construction of an INHIBIT Logic Gate and a Keypad Lock. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5623-5629.	8.0	59
48	Facile Preparation of AIE-Active Fluorescent Nanoparticles through Flash Nanoprecipitation. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 4683-4688.	3.7	59
49	Photocaged prodrug under NIR light-triggering with dual-channel fluorescence: in vivo real-time tracking for precise drug delivery. <i>Science China Chemistry</i> , 2018, 61, 1293-1300.	8.2	59
50	Molecularly near-infrared fluorescent theranostics for in vivo tracking tumor-specific chemotherapy. <i>Chinese Chemical Letters</i> , 2019, 30, 1849-1855.	9.0	59
51	AND-Logic Based Fluorescent Probe for Selective Detection of Lysosomal Bisulfite in Living Cells. <i>Analytical Chemistry</i> , 2019, 91, 11946-11951.	6.5	58
52	Self-Assembly of a Monochromophore-Based Polymer Enables Unprecedented Ratiometric Tracing of Hypoxia. <i>Advanced Materials</i> , 2019, 31, e1805735.	21.0	57
53	Near-Infrared Colorimetric and Fluorescent Cu ²⁺ Sensors Based on Indole-Benzothiadiazole Derivatives via Formation of Radical Cations. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12215-12220.	8.0	56
54	Helical Assembly Induced by Hydrogen Bonding from Chiral Carboxylic Acids Based on Perylene Bisimides. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10871-10876.	2.6	55

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55	A redox-activated fluorescence switch based on a ferrocene-“fluorophore”-boronic ester conjugate. <i>Chemical Communications</i> , 2015, 51, 1293-1296.	4.1	55
56	Intramolecular Charge-Transfer Process Based on Dicyanomethylene-4H-pyran Derivative: An Integrated Operation of Half-Subtractor and Comparator. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7047-7053.	3.1	52
57	A FRET-based dual-channel turn-on fluorescence probe for the detection of Hg ²⁺ in living cells. <i>Dyes and Pigments</i> , 2019, 161, 403-410.	3.7	52
58	Rational design of a fast and selective near-infrared fluorescent probe for targeted monitoring of endogenous nitric oxide. <i>Chemical Communications</i> , 2017, 53, 10520-10523.	4.1	51
59	Spatio-Temporally Reporting Dose-Dependent Chemotherapy via Uniting Dual-Modal MRI/NIR Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21143-21150.	13.8	51
60	Fluorescence umpolung enables light-up sensing of N-acetyltransferases and nerve agents. <i>Nature Communications</i> , 2021, 12, 3869.	12.8	51
61	Morphology Tuning of Aggregation-Induced Emission Probes by Flash Nanoprecipitation: Shape and Size Effects on <i>in Vivo</i> Imaging. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25186-25193.	8.0	50
62	NAD ⁺ supplement potentiates tumor-killing function by rescuing defective TUB-mediated NAMPT transcription in tumor-infiltrated T cells. <i>Cell Reports</i> , 2021, 36, 109516.	6.4	50
63	<i>in vivo</i> ratiometric tracking of endogenous β -galactosidase activity using an activatable near-infrared fluorescent probe. <i>Chemical Communications</i> , 2019, 55, 12308-12311.	4.1	48
64	Near-Infrared Aggregation-Induced Emission-Active Probe Enables <i>in situ</i> and Long-Term Tracking of Endogenous β -Galactosidase Activity. <i>Frontiers in Chemistry</i> , 2019, 7, 291.	3.6	46
65	A novel colorimetric and ratiometric NIR fluorescent sensor for glutathione based on dicyanomethylene-4H-pyran in living cells. <i>Science China Chemistry</i> , 2016, 59, 62-69.	8.2	43
66	Near-Infrared mitochondria-targeted fluorescent probe for cysteine based on difluoroboron curcuminoid derivatives. <i>Chinese Chemical Letters</i> , 2017, 28, 1952-1956.	9.0	43
67	Rational Design of Ratiometric Near-Infrared Aza-BODIPY-Based Fluorescent Probe for <i>in Vivo</i> Imaging of Endogenous Hydrogen Peroxide. <i>ACS Applied Bio Materials</i> , 2020, 3, 45-52.	4.6	42
68	Sensing Performance Enhancement via Acetate-Mediated N-Acylation of Thiourea Derivatives: A Novel Fluorescent Turn-On Hg ²⁺ Chemodosimeter. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3657-3662.	8.0	41
69	Rational design of novel near-infrared fluorescent DCM derivatives and their application in bioimaging. <i>Journal of Materials Chemistry B</i> , 2016, 4, 4683-4689.	5.8	39
70	An ultrasensitive fluorescent probe for hydrazine detection and its application in water samples and living cells. <i>Tetrahedron</i> , 2019, 75, 2642-2646.	1.9	37
71	Rational design of a turn-on fluorescent sensor for β -ketoglutaric acid in a microfluidic chip. <i>Chemical Science</i> , 2014, 5, 4012-4016.	7.4	35
72	Dual-channel near-infrared fluorescent probe for real-time tracking of endogenous β -glutamyl transpeptidase activity. <i>Chemical Communications</i> , 2018, 54, 12393-12396.	4.1	31

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73	Highly stable and fluorescent switching spirooxazines. <i>Tetrahedron</i> , 2006, 62, 9840-9845.	1.9	29
74	Engineering Nanoparticulate Organic Photocatalysts via a Scalable Flash Nanoprecipitation Process for Efficient Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15590-15597.	13.8	29
75	Ratiometric and light-up near-infrared fluorescent DCM-based probe for real-time monitoring endogenous tyrosinase activity. <i>Dyes and Pigments</i> , 2019, 162, 802-807.	3.7	28
76	Harnessing Hypoxia-Dependent Cyanine Photocages for In Vivo Precision Drug Release. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9553-9561.	13.8	28
77	Peptide Receptor-Targeted Fluorescent Probe: Visualization and Discrimination between Chronic and Acute Ulcerative Colitis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13029-13036.	8.0	27
78	Broadening AI-Egen application: rapid and portable sensing of foodstuff hazards in deep-frying oil. <i>Chemical Communications</i> , 2019, 55, 4087-4090.	4.1	27
79	Rational Design of Near-Infrared Cyanine-Based Fluorescent Probes for Rapid In Vivo Sensing Cysteine. <i>ACS Applied Bio Materials</i> , 2021, 4, 2001-2008.	4.6	27
80	Photoswitching between black and colourless spectra exhibits resettable spatiotemporal logic. <i>Materials Horizons</i> , 2016, 3, 124-129.	12.2	25
81	Harnessing Î±-fucosidase for in vivo cellular senescence imaging. <i>Chemical Science</i> , 2021, 12, 10054-10062.	7.4	25
82	Screen-Printed Red Luminescent Copolymer Film Containing Cyclometalated Iridium(III) Complex as a High-Permeability Dissolved-Oxygen Sensor for Fermentation Bioprocess. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 3980-3987.	3.7	24
83	Near-infrared cyanine-based sensor for Fe ³⁺ with high sensitivity: its intracellular imaging application in colorectal cancer cells. <i>RSC Advances</i> , 2016, 6, 100759-100764.	3.6	23
84	Saponin-Based Near-Infrared Nanoparticles with Aggregation-Induced Emission Behavior: Enhancing Cell Compatibility and Permeability. <i>ACS Applied Bio Materials</i> , 2019, 2, 943-951.	4.6	20
85	A Sequential Dual-Lock Strategy for Photoactivatable Chemiluminescent Probes Enabling Bright Duplex Optical Imaging. <i>Angewandte Chemie</i> , 2020, 132, 9144-9151.	2.0	20
86	Nanomized tumor-microenvironment-active NIR fluorescent prodrug for ensuring synchronous occurrences of drug release and fluorescence tracing. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1503-1509.	5.8	18
87	A turn-on fluorescent probe based on Îµ-extended coumarin for imaging endogenous hydrogen peroxide in RAW 264.7 cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 414, 113270.	3.9	18
88	In vivo real-time tracking of tumor-specific biocatalysis in cascade nanotheranostics enables synergistic cancer treatment. <i>Chemical Science</i> , 2020, 11, 3371-3377.	7.4	17
89	Circularly Polarized Fluorescence Resonance Energy Transfer (C/FRET) for Efficient Chirality Transmission within an Intermolecular System. <i>Angewandte Chemie</i> , 2021, 133, 24754-24762.	2.0	17
90	Photocontrollable Release with Coumarin-Based Profragrances. <i>ACS Applied Bio Materials</i> , 2019, 2, 4002-4009.	4.6	16

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91	Fabrication of mesoporous silica nanoparticles hybridised with fluorescent AIE-active quinoline-malononitrile for drug delivery and bioimaging. <i>RSC Advances</i> , 2014, 4, 58976-58981.	3.6	15
92	Fluorescence Imaging of Alzheimer's Disease with a Flat Ensemble Formed between a Quinoline-Malononitrile AIEgen and Thin-Layer Molybdenum Disulfide. <i>ChemBioChem</i> , 2019, 20, 1856-1860.	2.6	15
93	High-Performance Quinoline-Malononitrile Core as a Building Block for the Diversity-Oriented Synthesis of AIEgens. <i>Angewandte Chemie</i> , 2020, 132, 9896-9909.	2.0	15
94	Recent Application Progress on Aggregation-Induced Emission. <i>Chinese Journal of Organic Chemistry</i> , 2012, 32, 1620.	1.3	15
95	A hydrophilic fluorescent polymer containing naphthalimide moiety as chemosensor for microbioreactors. <i>Science in China Series B: Chemistry</i> , 2009, 52, 821-826.	0.8	13
96	A fast-response and highly specific Si-Rhodamine probe for endogenous peroxynitrite detection in living cells. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1875-1880.	2.8	13
97	Tracking Ultrafast Structural Dynamics in a Dual-Emission Anti-Kasha-Active Fluorophore Using Femtosecond Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4466-4473.	4.6	12
98	Optimizing the Chemical Recognition Process of a Fluorescent Chemosensor for α -Ketoglutarate. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 2886-2893.	3.7	10
99	Engineering molecular self-assembly of theranostic nanoprobes for dual-modal imaging-guided precise chemotherapy. <i>Science China Chemistry</i> , 2021, 64, 2045-2052.	8.2	10
100	Water-soluble bright NIR AIEgens with hybrid ROS for wash-free mitochondrial "off-on" imaging and photodynamic therapy. <i>Chemical Communications</i> , 2022, 58, 6393-6396.	4.1	9
101	"Crossbreeding"-Small-Molecular Weight NIR-II Flavochromenes Endows Activatable Multiplexed In Vivo Imaging. , 2022, 4, 1493-1502.		9
102	Sequence-Activated Fluorescent Nanotheranostics for Real-Time Profiling Pancreatic Cancer. <i>JACS</i> , 2022, 2, 246-257.	7.9	8
103	Near-Infrared Fluorescent Theranostic Cisplatin Prodrug with Transcatheter Intra-Arterial Therapy: Application to Rabbit Hepatocellular Carcinoma. <i>Advanced Therapeutics</i> , 2018, 1, 1800093.	3.2	6
104	Spatio-Temporally Reporting Dose-Dependent Chemotherapy via Uniting Dual-Modal MRI/NIR Imaging. <i>Angewandte Chemie</i> , 2020, 132, 21329-21336.	2.0	6
105	Engineering photo-controllable fragrance release with flash nanoprecipitation. <i>Green Chemical Engineering</i> , 2021, 2, 301-308.	6.3	6
106	POSS: A Morphology-Tuning Strategy To Improve the Sensitivity and Responsiveness of Dissolved Oxygen Sensor. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 7761-7768.	3.7	5
107	Harnessing Hypoxia-Dependent Cyanine Photocages for In Vivo Precision Drug Release. <i>Angewandte Chemie</i> , 2021, 133, 9639-9647.	2.0	3
108	Engineering Nanoparticulate Organic Photocatalysts via a Scalable Flash Nanoprecipitation Process for Efficient Hydrogen Production. <i>Angewandte Chemie</i> , 2021, 133, 15718-15725.	2.0	1

#	ARTICLE	IF	CITATIONS
109	CHAPTER 4. Fluorescent Chemosensors Based on Boronic Acid Derivatives. Monographs in Supramolecular Chemistry, 0, , 101-127.	0.2	0