

Xiaoling Zhang

List of Publications by Year in descending order

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116
papers

3,628
citations

136950

32
h-index

155660

55
g-index

117
all docs

117
docs citations

117
times ranked

4484
citing authors

#	ARTICLE	IF	CITATIONS
1	A 4-hydroxynaphthalimide-derived ratiometric fluorescent chemodosimeter for imaging palladium in living cells. <i>Chemical Communications</i> , 2011, 47, 8656.	4.1	230
2	A highly selective colorimetric and ratiometric fluorescent chemodosimeter for imaging fluoride ions in living cells. <i>Chemical Communications</i> , 2011, 47, 7098.	4.1	173
3	Atomic Iron Catalysis of Polysulfide Conversion in Lithium–Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19311-19317.	8.0	152
4	Turn-on theranostic fluorescent nanoprobe by electrostatic self-assembly of carbon dots with doxorubicin for targeted cancer cell imaging, in vivo hyaluronidase analysis, and targeted drug delivery. <i>Biosensors and Bioelectronics</i> , 2017, 96, 300-307.	10.1	144
5	Rational Design of a Hepatoma-Specific Fluorescent Probe for HOCl and Its Bioimaging Applications in Living HepG2 Cells. <i>Analytical Chemistry</i> , 2019, 91, 2163-2168.	6.5	107
6	A lysosome targetable versatile fluorescent probe for imaging viscosity and peroxynitrite with different fluorescence signals in living cells. <i>Journal of Materials Chemistry B</i> , 2018, 6, 580-585.	5.8	104
7	An Endoplasmic Reticulum-Targeted Ratiometric Fluorescent Probe for the Sensing of Hydrogen Sulfide in Living Cells and Zebrafish. <i>Analytical Chemistry</i> , 2020, 92, 9982-9988.	6.5	103
8	Endoplasmic Reticulum-Directed Ratiometric Fluorescent Probe for Quantitative Detection of Basal H_2O_2 . <i>Analytical Chemistry</i> , 2017, 89, 12945-12950.	6.5	101
9	Highly luminescent, biocompatible ytterbium(III) complexes as near-infrared fluorophores for living cell imaging. <i>Chemical Science</i> , 2018, 9, 3742-3753.	7.4	101
10	A fast-response, highly sensitive and selective fluorescent probe for the ratiometric imaging of nitroxyl in living cells. <i>Chemical Communications</i> , 2014, 50, 6013.	4.1	97
11	16.5% efficiency ternary organic photovoltaics with two polymer donors by optimizing molecular arrangement and phase separation. <i>Nano Energy</i> , 2020, 69, 104447.	16.0	80
12	Construction of an orthogonal ZnSalen/Salophen library as a colour palette for one- and two-photon live cell imaging. <i>Chemical Science</i> , 2014, 5, 2318.	7.4	66
13	Synthesis of N-Doped Micropore Carbon Quantum Dots with High Quantum Yield and Dual-Wavelength Photoluminescence Emission from Biomass for Cellular Imaging. <i>Nanomaterials</i> , 2019, 9, 495.	4.1	65
14	A highly sensitive and rapidly responding fluorescent probe with a large Stokes shift for imaging intracellular hypochlorite. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 459-465.	7.8	58
15	Rational design of ZnSalen as a single and two photon activatable fluorophore in living cells. <i>Chemical Science</i> , 2012, 3, 3315.	7.4	57
16	A mitochondria targetable and viscosity sensitive fluorescent probe and its applications for distinguishing cancerous cells. <i>Dyes and Pigments</i> , 2019, 168, 134-139.	3.7	53
17	Unravelling the correlation between metal induced aggregation and cellular uptake/subcellular localization of ZnSalen: an overlooked rule for design of luminescent metal probes. <i>Chemical Science</i> , 2015, 6, 2389-2397.	7.4	52
18	Stable DNA Nanomachine Based on Duplex–Triplex Transition for Ratiometric Imaging Instantaneous pH Changes in Living Cells. <i>Analytical Chemistry</i> , 2015, 87, 5854-5859.	6.5	51

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19	Combining myeloperoxidase (MPO) with fluorogenic ZnSalen to detect lysosomal hydrogen peroxide in live cells. <i>Chemical Science</i> , 2013, 4, 2947.	7.4	49
20	An ultrafast responsive BODIPY-based fluorescent probe for the detection of endogenous hypochlorite in live cells. <i>Journal of Materials Chemistry B</i> , 2017, 5, 525-530.	5.8	49
21	A fluorescent probe for differentiating Cys, Hcy and GSH via a stepwise interaction. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 345-349.	7.8	49
22	A reversible water-soluble naphthalimide-based chemosensor for imaging of cellular copper(II) ion and cysteine. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 632-638.	7.8	45
23	A mitochondria-targeting highly specific fluorescent probe for fast sensing of endogenous peroxynitrite in living cells. <i>Sensors and Actuators B: Chemical</i> , 2020, 303, 127284.	7.8	45
24	A fast-response, highly sensitive and selective fluorescent probe for the ratiometric imaging of hydrogen peroxide with a 100 nm red-shifted emission. <i>RSC Advances</i> , 2014, 4, 16055.	3.6	42
25	Reversible and Dynamic Fluorescence Imaging of Cellular Redox Self-Regulation Using Fast-Responsive Near-Infrared Ge-Pyrone. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8991-8997.	8.0	41
26	Rational design of aggregation-induced emission sensor based on Rhodamine B for turn-on sensing of trivalent metal cations, reversible data protection, and bioimaging. <i>Materials Chemistry Frontiers</i> , 2019, 3, 151-160.	5.9	41
27	Donor-acceptor type aggregation-induced emission luminophores based on the 1,1-dicyanomethylene-3-indanone unit for bridge-dependent reversible mechanochromism and light-up biosensing of hypochlorites. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8888-8897.	5.5	40
28	An ICT-based fluorescent probe for ratiometric monitoring the fluctuations of peroxynitrite in mitochondria. <i>Sensors and Actuators B: Chemical</i> , 2021, 328, 129069.	7.8	37
29	A near-infrared fluorescent probe for ratiometric imaging peroxynitrite in Parkinson's disease model. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131393.	7.8	37
30	Dual-Site Fluorescent Probe to Monitor Intracellular Nitroxyl and GSH-GSSG Oscillations. <i>Analytical Chemistry</i> , 2019, 91, 4451-4456.	6.5	36
31	A mitochondria-targeted far red fluorescent probe for ratiometric imaging of endogenous peroxynitrite. <i>Dyes and Pigments</i> , 2019, 170, 107609.	3.7	35
32	An AIEgen-based fluorescent probe for highly selective and specific imaging of lipid droplets in LO2 and HepG2 cells. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 545-552.	7.8	35
33	In Vitro Light-Up Visualization of a Subunit-Specific Enzyme by an AIE Probe via Restriction of Single Molecular Motion. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10003-10007.	13.8	34
34	β -Lactonization of fluorinated porphyrin enhances LDL binding affinity, cellular uptake with selective intracellular localization. <i>Chemical Science</i> , 2014, 5, 558-566.	7.4	33
35	A sensitive ratiometric fluorescent probe for quantitative detection and imaging of alkaline phosphatase in living cells. <i>Analytica Chimica Acta</i> , 2019, 1066, 131-135.	5.4	33
36	A conformational transition based fluorescent probe for mapping lysosomal viscosity fluctuations by fluorescence lifetime imaging. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129432.	7.8	33

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37	A highly selective colorimetric and far-red fluorescent probe for imaging bisulfite in living cells. RSC Advances, 2014, 4, 33507.	3.6	32
38	Enantioselective Fluorescent Imaging of Free Amino Acids in Living Cells. Chemistry - A European Journal, 2017, 23, 2432-2438.	3.3	32
39	Highly Sensitive and Selective Detection of Heparin in Serum Based on a Long-Wavelength Tetraphenylethyleneâ€“Cyanopyridine Aggregation-Induced Emission Luminogen. Analytical Chemistry, 2020, 92, 7106-7113.	6.5	32
40	Ratiometric fluorescence imaging of endogenous selenocysteine in cancer cell matrix. Journal of Materials Chemistry B, 2017, 5, 6890-6896.	5.8	31
41	One-Pot Synthesis of Hollow PbSe Single-Crystalline Nanoboxes via Gas Bubble Assisted Ostwald Ripening. Crystal Growth and Design, 2010, 10, 1257-1262.	3.0	30
42	A highly sensitive and reductant-resistant fluorescent chemodosimeter for the rapid detection of nitroxyl. Sensors and Actuators B: Chemical, 2015, 220, 727-733.	7.8	30
43	A Chloroacetateâ€“Caged Fluorescein Chemodosimeter for Imaging Cysteine/Homocysteine in Living Cells. European Journal of Organic Chemistry, 2013, 2013, 888-893.	2.4	29
44	A reductant-resistant ratiometric, colorimetric and far-red fluorescent probe for rapid and ultrasensitive detection of nitroxyl. Journal of Materials Chemistry B, 2017, 5, 3557-3564.	5.8	29
45	A two-photon fluorescent probe for basal formaldehyde imaging in zebrafish and visualization of mitochondrial damage induced by FA stress. Analyst, The, 2019, 144, 2297-2303.	3.5	29
46	Revealing the redox status in endoplasmic reticulum by a selenium fluorescence probe. Journal of Materials Chemistry B, 2020, 8, 2660-2665.	5.8	29
47	Mitochondria-specific ultrasensitive ratiometric AIE probe for imaging endogenous peroxynitrite. Sensors and Actuators B: Chemical, 2021, 344, 130206.	7.8	29
48	UV-assisted synthesis of long-wavelength Si-pyronine fluorescent dyes for real-time and dynamic imaging of glutathione fluctuation in living cells. Journal of Materials Chemistry B, 2016, 4, 4826-4831.	5.8	28
49	Synthesis of Black Phosphorus Quantum Dots with High Quantum Yield by Pulsed Laser Ablation for Cell Bioimaging. Chemistry - an Asian Journal, 2018, 13, 1842-1846.	3.3	28
50	A highly sensitive and selective fluorescent probe for N ₂ H ₄ in air and living cells. New Journal of Chemistry, 2017, 41, 11891-11897.	2.8	27
51	Over 16.5% efficiency in ternary organic solar cells by adding an alloyed acceptor with energy transfer process. Dyes and Pigments, 2021, 192, 109434.	3.7	24
52	One-pot self-assembly of flower-like Cu ₂ S structures with near-infrared photoluminescent properties. CrystEngComm, 2011, 13, 6549.	2.6	22
53	1-Hexadecylamine as both reducing agent and stabilizer to synthesize Au and Ag nanoparticles and their SERS application. Journal of Nanoparticle Research, 2011, 13, 1929-1936.	1.9	22
54	Ionically dispersed Fe(II)â€“N and Zn(II)â€“N in porous carbon for acidic oxygen reduction reactions. Chemical Communications, 2017, 53, 11453-11456.	4.1	22

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55	Triphenylphosphine-assisted highly sensitive fluorescent chemosensor for ratiometric detection of palladium in solution and living cells. <i>RSC Advances</i> , 2015, 5, 97121-97126.	3.6	21
56	An ESIPT based naphthalimide chemosensor for visualizing endogenous ONOO ⁻ in living cells. <i>RSC Advances</i> , 2018, 8, 1826-1832.	3.6	21
57	A deep red ratiometric fluorescent probe for accurate detection of peroxynitrite in mitochondria. <i>Analytica Chimica Acta</i> , 2022, 1203, 339652.	5.4	21
58	A two-photon fluorescent probe for imaging of endogenous formaldehyde in HeLa cells and quantitative detection of basal formaldehyde in milk samples. <i>Analytical Methods</i> , 2019, 11, 2969-2975.	2.7	20
59	A multifunctional oxygen-producing MnO ₂ -based nanoplatfor for tumor microenvironment-activated imaging and combination therapy <i>in vitro</i> . <i>Journal of Materials Chemistry B</i> , 2020, 8, 9943-9950.	5.8	20
60	Hierarchical design of nitrogen-doped porous carbon nanorods for use in high efficiency capacitive energy storage. <i>RSC Advances</i> , 2017, 7, 22447-22453.	3.6	19
61	Porous carbon electrocatalyst with exclusive metal-coordinate active sites for acidic oxygen reduction reaction. <i>Carbon</i> , 2018, 132, 85-94.	10.3	19
62	A ratiometric fluorescent probe for mitochondrial esterase specific detection in living cells. <i>Dyes and Pigments</i> , 2020, 178, 108345.	3.7	19
63	Advances in aptamers against A β and applications in A β detection and regulation for Alzheimer's disease. <i>Theranostics</i> , 2022, 12, 2095-2114.	10.0	18
64	Surfactant-sensitized ratiometric fluorescent chemodosimeter for the highly selective detection of mercury(II) ions based on vinyl ether oxymercuration. <i>RSC Advances</i> , 2014, 4, 12596.	3.6	17
65	Enantioselective Fluorescent Recognition of Amino Acids by Amide Formation: An Unusual Concentration Effect. <i>Journal of Organic Chemistry</i> , 2017, 82, 12669-12673.	3.2	17
66	Mitochondrial directed ratiometric fluorescent probe for quantitative detection of sulfur dioxide derivatives. <i>New Journal of Chemistry</i> , 2019, 43, 5255-5259.	2.8	17
67	Tumor Microenvironment-Responsive Theranostic Nanoplatfor for in Situ Self-Boosting Combined Phototherapy through Intracellular Reassembly. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6966-6977.	8.0	17
68	A simple dual-response fluorescent probe for imaging of viscosity and ONOO ⁻ through different fluorescence signals in living cells and zebrafish. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 260, 119990.	3.9	17
69	A real-time ratiometric fluorescent probe for imaging of SO ₂ derivatives in mitochondria of living cells. <i>RSC Advances</i> , 2019, 9, 22348-22354.	3.6	16
70	Multimodal Nanoprobe for Pancreatic Beta Cell Detection and Amyloidosis Mitigation. <i>Chemistry of Materials</i> , 2020, 32, 1080-1088.	6.7	16
71	An ESIPT-based fluorescent probe with large Stokes shift for peroxynitrite detection in HeLa cells and zebrafish. <i>Dyes and Pigments</i> , 2022, 204, 110334.	3.7	15
72	Highly specific and ratiometric fluorescent probe for ozone assay in indoor air and living cells. <i>Dyes and Pigments</i> , 2016, 127, 67-72.	3.7	14

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73	Fluorescence imaging of lysosomal hydrogen selenide under oxygen-controlled conditions. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2829-2834.	5.8	14
74	A thiocarbonate-caged fluorescent probe for specific visualization of peroxynitrite in living cells and zebrafish. <i>Analyst</i> , 2021, 146, 7627-7634.	3.5	14
75	Fluorescence enhancement of acridine orange in a water solution by Au nanoparticles. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 1799-1804.	5.1	13
76	Mn-doped CdS/ZnS/CdS QD-based fluorescent nanosensor for rapid, selective, and ultrasensitive detection of copper(II) ion. <i>RSC Advances</i> , 2015, 5, 63458-63464.	3.6	13
77	Synergistic Doping for Pseudocapacitance Sites in Alkaline Carbon Supercapacitors. <i>ChemElectroChem</i> , 2018, 5, 84-92.	3.4	13
78	A fast-responding, highly sensitive detection system consisting of a fluorescent probe and palladium ions for N_2H_4 in environmental water and living cells. <i>Analytical Methods</i> , 2019, 11, 5023-5030.	2.7	13
79	Ratiometric fluorescence imaging for sodium selenite in living cells. <i>Dyes and Pigments</i> , 2019, 164, 133-138.	3.7	12
80	Template synthesis of silver indium sulfide based nanocrystals performed through cation exchange in organic and aqueous media. <i>Nano Research</i> , 2021, 14, 2321.	10.4	12
81	One-step G-quadruplex-based fluorescence resonance energy transfer sensing method for ratiometric detection of uracil-DNA glycosylase activity. <i>Talanta</i> , 2021, 221, 121609.	5.5	12
82	Specific and sensitive imaging of basal cysteine over homocysteine in living cells. <i>RSC Advances</i> , 2018, 8, 37410-37416.	3.6	11
83	A highly colorimetric and ratiometric fluorescent probe for the detection of fluoride ions using test strips. <i>Analytical Methods</i> , 2019, 11, 3844-3850.	2.7	11
84	Enhanced Enantioselectivity in the Fluorescent Recognition of a Chiral Diamine by Using a Bisbinaphthyl Dialdehyde. <i>ACS Omega</i> , 2018, 3, 12545-12548.	3.5	10
85	Synergistic toughening of nanocomposite hydrogel based on ultrasmall aluminum hydroxide nanoparticles and hydroxyapatite nanoparticles. <i>Polymer Composites</i> , 2019, 40, 942-951.	4.6	9
86	Solid-state emissive O-BODIPY dyes with bimodal emissions across red and near infrared region. <i>RSC Advances</i> , 2019, 9, 16246-16251.	3.6	8
87	Ratiometric fluorescent probe for highly selective detection of gaseous H_2Se . <i>Dyes and Pigments</i> , 2020, 177, 108274.	3.7	8
88	Defective $AgInS/ZnS$ quantum dots: an oxygen-derived free radical scavenger for mitigating macrophage inflammation. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8971-8979.	5.8	8
89	Effects of reaction temperature on size and optical properties of CdSe nanocrystals. <i>Bulletin of Materials Science</i> , 2010, 33, 547-552.	1.7	7
90	A dual-functional biomimetic-mineralized nanoplatform for glucose detection and therapy with cancer cells <i>in vitro</i> . <i>Journal of Materials Chemistry B</i> , 2021, 9, 3885-3891.	5.8	7

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91	An efficient FRET based theranostic nanoprobe for hyaluronidase detection and cancer therapy in vitro. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130201.	7.8	7
92	An electrostatically regulated organic self-assembly for rapid and sensitive detection of heparin in serum. <i>Analytical Methods</i> , 2021, 13, 3620-3626.	2.7	7
93	Self-Assembled Monomolecular Layer Modified ZnO for Efficient Inverted Polymer Solar Cells with 11.53% Efficiency. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900372.	2.4	6
94	A fluorescent probe based on reversible Michael addition-elimination reaction for the cycle between cysteine and H_2O_2 . <i>Analytical Methods</i> , 2020, 12, 3797-3801.	2.7	6
95	In Vitro Light-Up Visualization of a Subunit-Specific Enzyme by an AIE Probe via Restriction of Single Molecular Motion. <i>Angewandte Chemie</i> , 2020, 132, 10089-10093.	2.0	6
96	Novel bimetallic Cu/Ni core-shell NPs and nitrogen doped GQDs composites applied in glucose in vitro detection. <i>PLoS ONE</i> , 2019, 14, e0220005.	2.5	5
97	Reaction rate constants with OH radicals at 253-328 K and atmospheric implications for $(CF_3)_2CHOCxH(2x+1)$ ($x=1, 2, 3$). <i>Chemical Physics Letters</i> , 2019, 714, 125-130.	2.6	5
98	Off-On Squalene Epoxidase-Specific Fluorescent Probe for Fast Imaging in Living Cells. <i>Analytical Chemistry</i> , 2021, 93, 14716-14721.	6.5	5
99	On the fluorescence of C60 at room temperature. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 95-99.	5.1	4
100	Aqueous nanodispersion of acetylene tethered, quinoxaline-containing conjugated polymer as fluorescence probe for Ag ⁺ . <i>New Journal of Chemistry</i> , 2014, 38, 4730-4735.	2.8	4
101	A label-free ratiometric fluorescence strategy for 3'-5' exonuclease detection. <i>New Journal of Chemistry</i> , 2018, 42, 16630-16634.	2.8	4
102	An analytical method for overlapping of the melting and decomposition of 2-oximemalononitrile. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, , 1.	3.6	4
103	A Sensitive Fluorescent Probe for Homocysteine/Cysteine in Pure Aqueous Media and Mitochondria. <i>ChemistrySelect</i> , 2021, 6, 8391-8396.	1.5	4
104	A silicon nanoparticle-based nanoprobe for ratiometric fluorescence and visual detection of glucose. <i>New Journal of Chemistry</i> , 2021, 45, 19515-19520.	2.8	4
105	Evaluation of the Thermal Hazard of the Oxidation Reaction in the Synthesis of 3,4-Bis(4-nitrofurazan-3-yl)furoxan. <i>Organic Process Research and Development</i> , 2022, 26, 1389-1397.	2.7	4
106	A Multi-Crosslinking Nanocapsule-Based Serial-Stimuli-Responsive Leakage-Free Drug-Delivery System In Vitro. <i>Chemistry - A European Journal</i> , 2019, 25, 13017-13024.	3.3	3
107	A novel vapor-phase catalytic synthetic approach for industrial production of 1,1,1,3,3,3-hexafluoroisopropyl methylether. <i>Applied Catalysis A: General</i> , 2020, 594, 117416.	4.3	3
108	Polydopamine nanodots-based cost-effective nanoprobe for glucose detection and intracellular imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 4865-4872.	3.7	3

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109	Enhanced Performance of Carbon-Based, Fully Printed Mesoscopic Perovskite Solar Cells through Defects Passivation. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	3
110	A xanthene-based fluorescent probe for detection of peroxynitrite in living cells and zebrafish. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 277, 121264.	3.9	3
111	Synthesis of SERS active Au nanowires in different noncoordinating solvents. <i>Journal of Nanoparticle Research</i> , 2011, 13, 2625-2632.	1.9	2
112	One-step synthesis of PY-NBD to distinguish Cys/Hcy and GSH in aqueous solutions and living cells by dual channels. <i>New Journal of Chemistry</i> , 2022, 46, 6715-6719.	2.8	2
113	Enzyme-triggered DNA nanomimosa: A ratiometric nanoprobe for RNase H activity sensing in living cells. <i>Talanta</i> , 2021, 233, 122547.	5.5	1
114	Surface-enhanced Raman spectroscopy coupled with advanced chemometric models for quantification of sulfide anion in environmental water samples. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 202-210.	2.5	1
115	Vapor-phase catalytic methylation of 1,1,1,3,3,3-hexafluoroisopropanol for the mass production of 1,1,1,3,3,3-hexafluoroisopropyl methyl ether. <i>Journal of Fluorine Chemistry</i> , 2021, 241, 109673.	1.7	0
116	Electrical properties of carbon-based fully-printed mesoscopic perovskite solar cells with BAI as an additive. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 3091-3100.	2.2	0