## Zhaochao Xu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 110
 9,667
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 papers
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 126
 10,886
 10.6
 6.51

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
110	Sensors for the optical detection of cyanide ion. <i>Chemical Society Reviews</i> , <b>2010</b> , 39, 127-37	58.5	926
109	Fluorescent chemosensors for Zn(2+). Chemical Society Reviews, 2010, 39, 1996-2006	58.5	822
108	Zn2+-triggered amide tautomerization produces a highly Zn2+-selective, cell-permeable, and ratiometric fluorescent sensor. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 601-10	16.4	616
107	Recent Progress on the Development of Chemosensors for Gases. <i>Chemical Reviews</i> , <b>2015</b> , 115, 7944-8	0 <b>68</b> .1	548
106	Unique sandwich stacking of pyrene-adenine-pyrene for selective and ratiometric fluorescent sensing of ATP at physiological pH. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15528-33	16.4	514
105	Ratiometric and selective fluorescent sensor for Cull based on internal charge transfer (ICT). <i>Organic Letters</i> , <b>2005</b> , 7, 889-92	6.2	489
104	Revisit to imidazolium receptors for the recognition of anions: highlighted research during 2006-2009. <i>Chemical Society Reviews</i> , <b>2010</b> , 39, 1457-66	58.5	468
103	Fluorescent and colorimetric chemosensors for detection of nucleotides, FAD and NADH: highlighted research during 2004-2010. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 2222-35	58.5	339
102	Colorimetric and ratiometric fluorescent chemosensor with a large red-shift in emission: Cu(II)-only sensing by deprotonation of secondary amines as receptor conjugated to naphthalimide fluorophore. <i>Organic Letters</i> , <b>2005</b> , 7, 3029-32	6.2	304
101	Pyrophosphate-selective fluorescent chemosensor at physiological pH: formation of a unique excimer upon addition of pyrophosphate. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 3828-9	16.4	290
100	A lysosome-targetable fluorescent probe for imaging hydrogen sulfide in living cells. <i>Organic Letters</i> , <b>2013</b> , 15, 2310-3	6.2	263
99	Fluorescence imaging of metal ions implicated in diseases. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 4487-93	58.5	241
98	Ratiometric and highly selective fluorescent sensor for cadmium under physiological pH range: a new strategy to discriminate cadmium from zinc. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 3554-7	4.2	225
97	Solid-State Photoinduced Luminescence Switch for Advanced Anticounterfeiting and Super-Resolution Imaging Applications. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 16036-160	3 <sup>1</sup> 6.4	209
96	Aziridinyl Fluorophores Demonstrate Bright Fluorescence and Superior Photostability by Effectively Inhibiting Twisted Intramolecular Charge Transfer. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 6960-3	16.4	182
95	Ratiometric fluorescent and colorimetric sensors for Cu2+ based on 4,5-disubstituted-1,8-naphthalimide and sensing cyanide via Cu2+ displacement approach. <i>Tetrahedron</i> , <b>2010</b> , 66, 1678-1683	2.4	167
94	Molecular Design of UVIIis Absorption and Emission Properties in Organic Fluorophores: Toward Larger Bathochromic Shifts, Enhanced Molar Extinction Coefficients, and Greater Stokes Shifts. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 16584-16595	3.8	161

93	Induction-driven stabilization of the anion-Interaction in electron-rich aromatics as the key to fluoride inclusion in imidazolium-cage receptors. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 1163-70	4.8	144
92	An NBD-based colorimetric and fluorescent chemosensor for Zn2+ and its use for detection of intracellular zinc ions. <i>Tetrahedron</i> , <b>2009</b> , 65, 2307-2312	2.4	136
91	Coumarin-derived transformable fluorescent sensor for Zn2+. Chemical Communications, 2012, 48, 4764	<b>l-∮</b> 8	135
90	Ratiometric Fluorescence Sensing of Fluoride Ions by an Asymmetric Bidentate Receptor Containing a Boronic Acid and Imidazolium Group. <i>European Journal of Organic Chemistry</i> , <b>2009</b> , 2009, 3058-3065	3.2	126
89	A twisted-intramolecular-charge-transfer (TICT) based ratiometric fluorescent thermometer with a mega-Stokes shift and a positive temperature coefficient. <i>Chemical Communications</i> , <b>2014</b> , 50, 15811-4	5.8	108
88	Exploiting the deprotonation mechanism for the design of ratiometric and colorimetric Zn2+ fluorescent chemosensor with a large red-shift in emission. <i>Tetrahedron</i> , <b>2006</b> , 62, 10117-10122	2.4	105
87	A naphthalimidellalixarene as a two-faced and highly selective fluorescent chemosensor for Cu2+ or FII Tetrahedron Letters, 2007, 48, 9151-9154	2	101
86	Quantitatively mapping cellular viscosity with detailed organelle information via a designed PET fluorescent probe. <i>Scientific Reports</i> , <b>2014</b> , 4, 5418	4.9	92
85	3D Flexible, Conductive, and Recyclable TiCT MXene-Melamine Foam for High-Areal-Capacity and Long-Lifetime Alkali-Metal Anode. <i>ACS Nano</i> , <b>2020</b> , 14, 8678-8688	16.7	92
84	A highly selective fluorescent chemosensor for dihydrogen phosphate via unique excimer formation and PET mechanism. <i>Tetrahedron Letters</i> , <b>2007</b> , 48, 3797-3800	2	91
83	Determination of organophosphate and carbamate pesticides based on enzyme inhibition using a pH-sensitive fluorescence probe. <i>Analytica Chimica Acta</i> , <b>2004</b> , 523, 117-123	6.6	79
82	A two-photon fluorescent probe for imaging hydrogen sulfide in living cells. <i>Dyes and Pigments</i> , <b>2013</b> , 99, 537-542	4.6	75
81	Quantitative Design of Bright Fluorophores and AIEgens by the Accurate Prediction of Twisted Intramolecular Charge Transfer (TICT). <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 10160-1017	<del>.</del> 1 <sup>6.4</sup>	72
80	A new naphthalimide derivative as a selective fluorescent and colorimetric sensor for fluoride, cyanide and CO2. <i>Dyes and Pigments</i> , <b>2015</b> , 120, 288-292	4.6	62
79	A General Descriptor Enables the Quantitative Development of Luminescent Materials Based on Photoinduced Electron Transfer. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 6777-6785	16.4	57
78	Discovery of a highly selective turn-on fluorescent probe for Ag+. <i>Analyst, The</i> , <b>2010</b> , 135, 2554-9	5	56
77	Fluorescent sensing and discrimination of ATP and ADP based on a unique sandwich assembly of pyrene-adenine-pyrene. <i>Chemistry - an Asian Journal</i> , <b>2011</b> , 6, 2114-22	4.5	54
76	A Photoexcitation-Induced Twisted Intramolecular Charge Shuttle. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7073-7077	16.4	47

75	Biomarker-targeted fluorescent probes for breast cancer imaging. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 648-656	8.1	47
74	A near-infrared fluorescent probe for hydrogen sulfide in living cells. <i>Dyes and Pigments</i> , <b>2013</b> , 98, 367-3	B <b>7</b> .16	47
73	Insight into the deactivation mode of methanol-to-olefins conversion over SAPO-34: Coke, diffusion, and acidic site accessibility. <i>Journal of Catalysis</i> , <b>2018</b> , 367, 306-314	7.3	45
<del>72</del>	A turn-on fluorescent probe for imaging lysosomal hydrogen sulfide in living cells. <i>RSC Advances</i> , <b>2014</b> , 4, 25790-25794	3.7	44
71	A pyrene-imidazolium derivative that selectively recognizes G-quadruplex DNA. <i>Biomaterials</i> , <b>2012</b> , 33, 2282-8	15.6	44
70	Bis- and tris-naphthoimidazolium derivatives for the fluorescent recognition of ATP and GTP in 100% aqueous solution. <i>Organic and Biomolecular Chemistry</i> , <b>2011</b> , 9, 8340-5	3.9	44
69	A ratiometric and exclusively selective CuII fluorescent probe based on internal charge transfer (ICT). <i>Tetrahedron</i> , <b>2011</b> , 67, 4869-4873	2.4	44
68	A red emission fluorescent probe for hydrogen sulfide and its application in living cells imaging. <i>Tetrahedron Letters</i> , <b>2013</b> , 54, 2980-2982	2	43
67	Heteroatom-substituted rhodamine dyes: Structure and spectroscopic properties. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 1667-1681	8.1	43
66	A H-bond strategy to develop acid-resistant photoswitchable rhodamine spirolactams for super-resolution single-molecule localization microscopy. <i>Chemical Science</i> , <b>2019</b> , 10, 4914-4922	9.4	40
65	Substantial Intramolecular Charge Transfer Induces Long Emission Wavelengths and Mega Stokes Shifts in 6-Aminocoumarins. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 13274-13279	3.8	39
64	Molecular Mechanism of Viscosity Sensitivity in BODIPY Rotors and Application to Motion-Based Fluorescent Sensors. <i>ACS Sensors</i> , <b>2020</b> , 5, 731-739	9.2	38
63	Imaging spatiotemporal evolution of molecules and active sites in zeolite catalyst during methanol-to-olefins reaction. <i>Nature Communications</i> , <b>2020</b> , 11, 3641	17.4	36
62	A self-assembly/disassembly two-photo ratiometric fluorogenic probe for bacteria imaging. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 573-576	8.1	34
61	A naphthalimide-based fluorescent sensor for halogenated solvents. <i>Chemical Communications</i> , <b>2016</b> , 52, 2095-8	5.8	32
60	A ratiometric fluorescent probe for fluoride ions with a tridentate receptor of boronic acid and imidazolium. <i>Tetrahedron Letters</i> , <b>2013</b> , 54, 2755-2758	2	32
59	Twisted intramolecular charge transfer (TICT) and twists beyond TICT: from mechanisms to rational designs of bright and sensitive fluorophores. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 12656-12678	58.5	28
58	A fluorescent and colorimetric chemosensor for nitric oxide based on 1,8-naphthalimide. <i>Dyes and Pigments</i> , <b>2013</b> , 96, 333-337	4.6	27

57	Rhodamine-naphthalimide demonstrated a distinct aggregation-induced emission mechanism: elimination of dark-states via dimer interactions (EDDI). <i>Chemical Communications</i> , <b>2019</b> , 55, 1446-1449	5.8	24
56	Native CRISPR-Cas-Mediated Genome Editing Enables Dissecting and Sensitizing Clinical Multidrug-Resistant P. Taeruginosa. <i>Cell Reports</i> , <b>2019</b> , 29, 1707-1717.e3	10.6	24
55	Rapid Identification of Bacteria by Membrane-Responsive Aggregation of a Pyrene Derivative. <i>ACS Sensors</i> , <b>2019</b> , 4, 281-285	9.2	21
54	A Unified Push <b>B</b> ull Model for Understanding the Ring-Opening Mechanism of Rhodamine Dyes. Journal of Physical Chemistry C, <b>2020</b> , 124, 3793-3801	3.8	21
53	Directed transforming of coke to active intermediates in methanol-to-olefins catalyst to boost light olefins selectivity. <i>Nature Communications</i> , <b>2021</b> , 12, 17	17.4	21
52	A wash-free SNAP-tag fluorogenic probe based on the additive effects of quencher release and environmental sensitivity. <i>Chemical Communications</i> , <b>2017</b> , 53, 6448-6451	5.8	20
51	Quantitative Design of Bright Fluorophores and AIEgens by the Accurate Prediction of Twisted Intramolecular Charge Transfer (TICT). <i>Angewandte Chemie</i> , <b>2020</b> , 132, 10246-10258	3.6	20
50	A general strategy to develop cell membrane fluorescent probes with location- and target-specific fluorogenicities: a case of a Zn probe with cellular selectivity. <i>Chemical Communications</i> , <b>2019</b> , 55, 15045	5 <sup>5</sup> 1804	8 <sup>20</sup>
49	Fluorescent probes for biothiols based on metal complex. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 429, 213638	23.2	20
48	Cd2+-triggered amide tautomerization produces a highly Cd2+-selective fluorescent sensor across a wide pH range. <i>Dyes and Pigments</i> , <b>2016</b> , 133, 339-344	4.6	18
47	Aptamer based fluorescent probe for serum HER2-ECD detection: The clinical utility in breast cancer. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 703-706	8.1	17
46	Revealing the switching mechanisms of an off-on-off fluorescent logic gate system. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 16798-16803	3.6	17
45	Fluorescence Sensing of Dihydrogen Phosphate and Pyrophosphate using Imidazolium Anthracene Derivatives. <i>Bulletin of the Korean Chemical Society</i> , <b>2011</b> , 32, 1371-1374	1.2	16
44	Descriptor <b>©</b> Enables the Quantitative Design of Spontaneously Blinking Rhodamines for Live-Cell Super-Resolution Imaging. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20215-20223	16.4	16
43	Revisiting imidazolium receptors for the recognition of anions: highlighted research during 2010-2019. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 589-618	58.5	16
42	A turn-on fluorescent probe for hydrogen sulfide and its application in living cells. <i>RSC Advances</i> , <b>2015</b> , 5, 86355-86358	3.7	14
41	Self-assembling nanoprobes that display two-dimensional fluorescent signals for identification of surfactants and bacteria. <i>Chemical Communications</i> , <b>2019</b> , 55, 969-972	5.8	12
40	A Photoexcitation-Induced Twisted Intramolecular Charge Shuttle. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 714	7 <sub>3</sub> 76151	12

Long-term super-resolution imaging of mitochondrial dynamics. Chinese Chemical Letters, 2020, 31, 293782940 11 39 Temperature insensitive fluorescence intensity in a coumarin monomer-aggregate coupled system. 38 5.8 11 Chemical Communications, **2014**, 50, 9329-32 A naphthalimide-derived fluorogenic probe for SNAP-tag with a fast record labeling rate. Dyes and 4.6 11 37 Pigments, 2017, 147, 327-333 Ground-state conformers enable bright single-fluorophore ratiometric thermometers with positive 36 7.8 11 temperature coefficients. Materials Chemistry Frontiers, 2017, 1, 2383-2390 Coumarin 545: an emission reference dye with a record-low temperature coefficient for ratiometric 5 35 11 fluorescence based temperature measurements. Analyst. The. 2015. 140. 1008-13 Highly sensitive and selective ratiometric fluorescent copper sensors: Different binding affinities modulated by three separate side chains of naphthalimide. Science in China Series B: Chemistry, 11 34 **2009**, 52, 771-779 RBMS1 regulates lung cancer ferroptosis through translational control of SLC7A11. Journal of 15.9 10 33 Clinical Investigation, 2021, 131, Molecular Origins of Photoinduced Backward Intramolecular Charge Transfer. Journal of Physical 3.8 10 Chemistry C, 2020, 124, 16820-16826 Water-Induced Structural Dynamic Process in Molecular Sieves under Mild Hydrothermal Conditions: Ship-in-a-Bottle Strategy for Acidity Identification and Catalyst Modification. 16.4 10 31 Angewandte Chemie - International Edition, 2020, 59, 20672-20681 Development of fluorescent probes targeting the cell wall of pathogenic bacteria. Coordination 30 23.2 Chemistry Reviews, 2021, 429, 213646 The environmental-sensitivity of a fluorescent ZTRS-Cd(ii) complex was applied to discriminate different types of surfactants and determine their CMC values. *Chemical Communications*, **2018**, 54, 6157-6160 29 Fluorescent antibiotics for real-time tracking of pathogenic bacteria. Journal of Pharmaceutical 28 14 9 Analysis, 2020, 10, 444-451 An assembly-regulated SNAP-tag fluorogenic probe for long-term super-resolution imaging of 11.8 9 27 mitochondrial dynamics. Biosensors and Bioelectronics, 2021, 176, 112886 Quantitative assessment of rhodamine spectra. Chinese Chemical Letters, 2021, 32, 943-946 26 8.1 9 A ratiometric fluorescent probe for fluoride ion based on naphthoimidazolium receptor. RSC 8 25

## (2021-2021)

Stable Super-Resolution Imaging of Lipid Droplet Dynamics through a Buffer Strategy with a 21 Hydrogen-Bond Sensitive Fluorogenic Probe. Angewandte Chemie - International Edition, **2021**, 60, 2510 $4^{-6.5}$ 11 $3^{-6.5}$ Direct observation of intramolecular coplanarity regulated polymorph emission of a 8.1 20 tetraphenylethene derivative. Chinese Chemical Letters, 2020, 31, 2985-2987 Strong Batacking interactions led to the mis-assignment of dimer emissions to the monomers of 8.1 19 5 1-acetylpyrene. Chinese Chemical Letters, 2019, 30, 601-604 Systematic study of synthesizing various heteroatom-substituted rhodamines from diaryl ether 18 4 analogues. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 240, 118466 Multiple Factors Regulate the Spirocyclization Equilibrium of Si-Rhodamines. Journal of Physical 17 3.4 4 Chemistry B, 2020, 124, 7467-7474 Synthesis of thioethyl pendant ligand-stabilized colloidal gold nanoparticles. Journal of Nanoscience 1.3 and Nanotechnology, 2009, 9, 5785-9 Descriptor &C-O Enables the Quantitative Design of Spontaneously Blinking Rhodamines for 3.6 15 3 Live-Cell Super-Resolution Imaging. Angewandte Chemie, 2020, 132, 20390-20398 Energy transfer followed by electron transfer (ETET) endows a TPE-NBD dyad with enhanced 8.1 14 environmental sensitivity. Chinese Chemical Letters, 2021, 32, 1937-1941 Methine-Quinoidal Fragment Induces Significant Bathochromic Shifts in Organic Dyes. Journal of 13 3.4 3 Physical Chemistry B, **2021**, 125, 1447-1452 Comparison of rhodamine 6G, rhodamine B and rhodamine 101 spirolactam based fluorescent probes: A case of pH detection. Spectrochimica Acta - Part A: Molecular and Biomolecular 4.4 *Spectroscopy*, **2021**, 268, 120662 Water-Induced Structural Dynamic Process in Molecular Sieves under Mild Hydrothermal Conditions: Ship-in-a-Bottle Strategy for Acidity Identification and Catalyst Modification. 11 3.6 2 Angewandte Chemie, **2020**, 132, 20853-20862 A unified fluorescence quenching mechanism of tetrazine-based fluorogenic dyes: energy transfer 7.8 10 to a dark state. Materials Chemistry Frontiers, 2021, 5, 7012-7021 One-step condensation synthesis and characterizations of indocyanine green. Results in Chemistry, 2.1 2 2021, 3, 100092 Stable Super-Resolution Imaging of Lipid Droplet Dynamics through a Buffer Strategy with a 3.6 2 Hydrogen-Bond Sensitive Fluorogenic Probe. Angewandte Chemie, 2021, 133, 25308 Comment on Acid-induced tunable white light emission based on triphenylamine derivatives [] 8.1 2 7 Chinese Chemical Letters, 2021, 33, 573-573 Rapid Enzyme-Mediated Biotinylation for Cell Surface Proteome Profiling. Analytical Chemistry, 7.8 2021, 93, 4542-4551 A Cell Membrane Fluorogenic Probe for Gram-Positive Bacteria Imaging and Real-Time Tracking of 4.1 1 Bacterial Viability.. ACS Applied Bio Materials, 2021, 4, 2104-2112 Thermal equilibria between conformers enable highly reliable single-fluorophore ratiometric thermometers. Analyst, The, **2021**, 146, 4219-4225

3	B-H and O-H bonds activation a single electron transfer of frustrated radical pairs. <i>Dalton Transactions</i> , <b>2021</b> , 50, 8947-8954	4.3	O
2	Theoretical studies on triplet formations in nitrobenzoxadiazole (NBD) derivatives: The impact of donor group and heteroatom substitution. <i>Results in Chemistry</i> , <b>2021</b> , 3, 100116	2.1	
1	Enhancing Brightness and Photostability of Organic Small Molecular Fluorescent Dyes Through Inhibiting Twisted Intramolecular Charge Transfer (TICT)?. <i>Acta Chimica Sinica</i> , <b>2022</b> , 80, 553	3.3	