

# Zhaochao Xu

## List of Publications by Year in Descending Order

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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  
papers

9,667  
citations

43  
h-index

98  
g-index

126  
ext. papers

10,886  
ext. citations

10.6  
avg, IF

6.51  
L-index

#	Paper	IF	Citations
110	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	
109	Comparison of rhodamine 6G, rhodamine B and rhodamine 101 spirolactam based fluorescent probes: A case of pH detection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 268, 120662	4.4	2
108	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
107	RBMS1 regulates lung cancer ferroptosis through translational control of SLC7A11. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	10
106	An assembly-regulated SNAP-tag fluorogenic probe for long-term super-resolution imaging of mitochondrial dynamics. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 176, 112886	11.8	9
105	Rapid Enzyme-Mediated Biotinylation for Cell Surface Proteome Profiling. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 4542-4551	7.8	1
104	Energy transfer followed by electron transfer (ETET) endows a TPE-NBD dyad with enhanced environmental sensitivity. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 1937-1941	8.1	3
103	Development of fluorescent probes targeting the cell wall of pathogenic bacteria. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 429, 213646	23.2	10
102	A Cell Membrane Fluorogenic Probe for Gram-Positive Bacteria Imaging and Real-Time Tracking of Bacterial Viability.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 2104-2112	4.1	1
101	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
100	Fluorescent probes for biothiols based on metal complex. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 429, 213638	23.2	20
99	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	0
98	A unified fluorescence quenching mechanism of tetrazine-based fluorogenic dyes: energy transfer to a dark state. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 7012-7021	7.8	2
97	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	
96	Thermal equilibria between conformers enable highly reliable single-fluorophore ratiometric thermometers. <i>Analyst, The</i> , <b>2021</b> , 146, 4219-4225	5	1
95	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
94	One-step condensation synthesis and characterizations of indocyanine green. <i>Results in Chemistry</i> , <b>2021</b> , 3, 100092	2.1	2

93	Methine-Quinoidal Fragment Induces Significant Bathochromic Shifts in Organic Dyes. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 1447-1452	3.4	3
92	Quantitative assessment of rhodamine spectra. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 943-946	8.1	9
91	Stabilizing the framework of SAPO-34 zeolite toward long-term methanol-to-olefins conversion. <i>Nature Communications</i> , <b>2021</b> , 12, 4661	17.4	8
90	Stable Super-Resolution Imaging of Lipid Droplet Dynamics through a Buffer Strategy with a Hydrogen-Bond Sensitive Fluorogenic Probe. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 25308	3.6	2
89	Stable Super-Resolution Imaging of Lipid Droplet Dynamics through a Buffer Strategy with a Hydrogen-Bond Sensitive Fluorogenic Probe. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 25104-25113	16.4	17
88	Comment on Acid-induced tunable white light emission based on triphenylamine derivatives[] <i>Chinese Chemical Letters</i> , <b>2021</b> , 33, 573-573	8.1	2
87	Systematic study of synthesizing various heteroatom-substituted rhodamines from diaryl ether analogues. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2020</b> , 240, 118466	4.4	4
86	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
85	Long-term super-resolution imaging of mitochondrial dynamics. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 2937-2940	8.2	11
84	Direct observation of intramolecular coplanarity regulated polymorph emission of a tetraphenylethene derivative. <i>Chinese Chemical Letters</i> , <b>2020</b> , 31, 2985-2987	8.1	6
83	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
82	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
81	A Unified PushPull Model for Understanding the Ring-Opening Mechanism of Rhodamine Dyes. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 3793-3801	3.8	21
80	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
79	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, 10160-10172	16.4	72
78	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
77	Molecular Origins of Photoinduced Backward Intramolecular Charge Transfer. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 16820-16826	3.8	10
76	Fluorescent antibiotics for real-time tracking of pathogenic bacteria. <i>Journal of Pharmaceutical Analysis</i> , <b>2020</b> , 10, 444-451	14	9

75	Descriptor <b>Q</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
74	Multiple Factors Regulate the Spirocyclization Equilibrium of Si-Rhodamines. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 7467-7474	3.4	4
73	Water-Induced Structural Dynamic Process in Molecular Sieves under Mild Hydrothermal Conditions: Ship-in-a-Bottle Strategy for Acidity Identification and Catalyst Modification. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20672-20681	16.4	10
72	Water-Induced Structural Dynamic Process in Molecular Sieves under Mild Hydrothermal Conditions: Ship-in-a-Bottle Strategy for Acidity Identification and Catalyst Modification. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 20853-20862	3.6	2
71	Descriptor <b>Q</b> C-O Enables the Quantitative Design of Spontaneously Blinking Rhodamines for Live-Cell Super-Resolution Imaging. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 20390-20398	3.6	3
70	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
69	Self-assembling nanoprobe 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
68	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
67	A Photoexcitation-Induced Twisted Intramolecular Charge Shuttle. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7073-7077	16.4	47
66	A Photoexcitation-Induced Twisted Intramolecular Charge Shuttle. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7147-7151	16.4	12
65	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
64	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
63	Native CRISPR-Cas-Mediated Genome Editing Enables Dissecting and Sensitizing Clinical Multidrug-Resistant <i>P. aeruginosa</i> . <i>Cell Reports</i> , <b>2019</b> , 29, 1707-1717.e3	10.6	24
62	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, 15045-15048	5.8	20
61	Heteroatom-substituted rhodamine dyes: Structure and spectroscopic properties. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 1667-1681	8.1	43
60	Strong $\pi$ -stacking interactions led to the mis-assignment of dimer emissions to the monomers of 1-acetylpyrene. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 601-604	8.1	5
59	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
58	Biomarker-targeted fluorescent probes for breast cancer imaging. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 648-656	8.1	47

57	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
56	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
55	The environmental-sensitivity of a fluorescent ZTRS-Cd(ii) complex was applied to discriminate different types of surfactants and determine their CMC values. <i>Chemical Communications</i> , <b>2018</b> , 54, 6157-6160	5.8	10
54	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
53	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
52	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, 16036-16039	16.4	209
51	A naphthalimide-derived fluorogenic probe for SNAP-tag with a fast record labeling rate. <i>Dyes and Pigments</i> , <b>2017</b> , 147, 327-333	4.6	11
50	Ground-state conformers enable bright single-fluorophore ratiometric thermometers with positive temperature coefficients. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2383-2390	7.8	11
49	Cd <sup>2+</sup> -triggered amide tautomerization produces a highly Cd <sup>2+</sup> -selective fluorescent sensor across a wide pH range. <i>Dyes and Pigments</i> , <b>2016</b> , 133, 339-344	4.6	18
48	A naphthalimide-based fluorescent sensor for halogenated solvents. <i>Chemical Communications</i> , <b>2016</b> , 52, 2095-8	5.8	32
47	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
46	A new naphthalimide derivative as a selective fluorescent and colorimetric sensor for fluoride, cyanide and CO <sub>2</sub> . <i>Dyes and Pigments</i> , <b>2015</b> , 120, 288-292	4.6	62
45	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
44	Fluorescence imaging of metal ions implicated in diseases. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 4487-93	58.5	241
43	Recent Progress on the Development of Chemosensors for Gases. <i>Chemical Reviews</i> , <b>2015</b> , 115, 7944-8068	68.1	548
42	Coumarin 545: an emission reference dye with a record-low temperature coefficient for ratiometric fluorescence based temperature measurements. <i>Analyst</i> , <b>2015</b> , 140, 1008-13	5	11
41	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
40	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

39	Temperature insensitive fluorescence intensity in a coumarin monomer-aggregate coupled system. <i>Chemical Communications</i> , <b>2014</b> , 50, 9329-32	5.8	11
38	A ratiometric fluorescent probe for fluoride ion based on naphthoimidazolium receptor. <i>RSC Advances</i> , <b>2014</b> , 4, 43746-43751	3.7	8
37	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
36	A fluorescent probe based on N-butylbenzene-1,2-diamine for Cu(II) and its imaging in living cells. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2014</b> , 80, 383-390	1.7	8
35	A near-infrared fluorescent probe for hydrogen sulfide in living cells. <i>Dyes and Pigments</i> , <b>2013</b> , 98, 367-376	4.6	47
34	Molecular Design of UV-vis 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
33	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
32	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
31	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
30	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
29	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
28	A pyrene-imidazolium derivative that selectively recognizes G-quadruplex DNA. <i>Biomaterials</i> , <b>2012</b> , 33, 2282-8	15.6	44
27	Coumarin-derived transformable fluorescent sensor for Zn <sup>2+</sup> . <i>Chemical Communications</i> , <b>2012</b> , 48, 4764-68	5.8	135
26	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
25	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
24	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
23	Induction-driven stabilization of the anion-π 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
22	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

21	A ratiometric and exclusively selective Cu(I) fluorescent probe based on internal charge transfer (ICT). <i>Tetrahedron</i> , <b>2011</b> , 67, 4869-4873	2.4	44
20	Synthesis of large ring 3,4-alkylenedioxythiophenes (ADOT) derivatives via Mitsunobu reaction. <i>Tetrahedron Letters</i> , <b>2011</b> , 52, 2823-2825	2	8
19	Zn <sup>2+</sup> -triggered amide tautomerization produces a highly Zn <sup>2+</sup> -selective, cell-permeable, and ratiometric fluorescent sensor. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 601-10	16.4	616
18	Fluorescent chemosensors for Zn(2+). <i>Chemical Society Reviews</i> , <b>2010</b> , 39, 1996-2006	58.5	822
17	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
16	Sensors for the optical detection of cyanide ion. <i>Chemical Society Reviews</i> , <b>2010</b> , 39, 127-37	58.5	926
15	Discovery of a highly selective turn-on fluorescent probe for Ag <sup>+</sup> . <i>Analyst, The</i> , <b>2010</b> , 135, 2554-9	5	56
14	Ratiometric fluorescent and colorimetric sensors for Cu <sup>2+</sup> based on 4,5-disubstituted-1,8-naphthalimide and sensing cyanide via Cu <sup>2+</sup> displacement approach. <i>Tetrahedron</i> , <b>2010</b> , 66, 1678-1683	2.4	167
13	Synthesis of thioethyl pendant ligand-stabilized colloidal gold nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 5785-9	1.3	3
12	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
11	Highly sensitive and selective ratiometric fluorescent copper sensors: Different binding affinities modulated by three separate side chains of naphthalimide. <i>Science in China Series B: Chemistry</i> , <b>2009</b> , 52, 771-779		11
10	An NBD-based colorimetric and fluorescent chemosensor for Zn <sup>2+</sup> and its use for detection of intracellular zinc ions. <i>Tetrahedron</i> , <b>2009</b> , 65, 2307-2312	2.4	136
9	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
8	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
7	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
6	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
5	A naphthalimide-calixarene as a two-faced and highly selective fluorescent chemosensor for Cu <sup>2+</sup> or F <sup>-</sup> . <i>Tetrahedron Letters</i> , <b>2007</b> , 48, 9151-9154	2	101
4	Exploiting the deprotonation mechanism for the design of ratiometric and colorimetric Zn <sup>2+</sup> fluorescent chemosensor with a large red-shift in emission. <i>Tetrahedron</i> , <b>2006</b> , 62, 10117-10122	2.4	105

3	Ratiometric and selective fluorescent sensor for CuII based on internal charge transfer (ICT). <i>Organic Letters</i> , <b>2005</b> , 7, 889-92	6.2	489
2	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
1	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