

Yi Xiao

List of Publications by Year in descending order

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65
papers

4,428
citations

136950

32
h-index

106344

65
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all docs

65
docs citations

65
times ranked

4776
citing authors

#	ARTICLE	IF	CITATIONS
1	A Ratiometric Fluorescent Probe Based on FRET for Imaging Hg ²⁺ Ions in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8025-8029.	13.8	770
2	A Lysosome-Targetable and Two-Photon Fluorescent Probe for Monitoring Endogenous and Exogenous Nitric Oxide in Living Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 17486-17489.	13.7	399
3	Activatable Rotor for Quantifying Lysosomal Viscosity in Living Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 2903-2906.	13.7	363
4	A design concept of long-wavelength fluorescent analogs of rhodamine dyes: replacement of oxygen with silicon atom. <i>Chemical Communications</i> , 2008, , 1780.	4.1	234
5	A New Prodrug-Derived Ratiometric Fluorescent Probe for Hypoxia: High Selectivity of Nitroreductase and Imaging in Tumor Cell. <i>Organic Letters</i> , 2011, 13, 928-931.	4.6	203
6	Long-Wavelength, Photostable, Two-Photon Excitable BODIPY Fluorophores Readily Modifiable for Molecular Probes. <i>Journal of Organic Chemistry</i> , 2013, 78, 9153-9160.	3.2	175
7	Quaternary Piperazine-Substituted Rhodamines with Enhanced Brightness for Super-Resolution Imaging. <i>Journal of the American Chemical Society</i> , 2019, 141, 14491-14495.	13.7	140
8	Convenient and Efficient FRET Platform Featuring a Rigid Biphenyl Spacer between Rhodamine and BODIPY: Transformation of Turn-Off™ Sensors into Ratiometric Ones with Dual Emission. <i>Chemistry - A European Journal</i> , 2011, 17, 3179-3191.	3.3	139
9	Development of excellent long-wavelength BODIPY laser dyes with a strategy that combines extending π -conjugation and tuning ICT effect. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13026.	2.8	133
10	Targetable Fluorescent Probe for Monitoring Exogenous and Endogenous NO in Mitochondria of Living Cells. <i>Analytical Chemistry</i> , 2013, 85, 7076-7084.	6.5	98
11	Strategy to Lengthen the On-Time of Photochromic Rhodamine Spirolactam for Super-resolution Photoactivated Localization Microscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 6527-6536.	13.7	96
12	Targetable and fixable rotor for quantifying mitochondrial viscosity of living cells by fluorescence lifetime imaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 360-368.	5.8	86
13	A Photostable Near-Infrared Fluorescent Tracker with pH-Independent Specificity to Lysosomes for Long Time and Multicolor Imaging. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21669-21676.	8.0	78
14	Photocalibrated NO Release from N-Nitrosated Naphthalimides upon One-Photon or Two-Photon Irradiation. <i>Analytical Chemistry</i> , 2016, 88, 7274-7280.	6.5	66
15	Super-Resolution Monitoring of Mitochondrial Dynamics upon Time-Gated Photo-Triggered Release of Nitric Oxide. <i>Analytical Chemistry</i> , 2018, 90, 2164-2169.	6.5	65
16	Photostable Bipolar Fluorescent Probe for Video Tracking Plasma Membranes Related Cellular Processes. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12372-12379.	8.0	64
17	Immobilizable fluorescent probes for monitoring the mitochondria microenvironment: a next step from the classic. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2749-2758.	5.8	61
18	From a BODIPY-rhodamine scaffold to a ratiometric fluorescent probe for nitric oxide. <i>New Journal of Chemistry</i> , 2013, 37, 1688.	2.8	60

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19	Monitoring Lipid Peroxidation within Foam Cells by Lysosome-Targetable and Ratiometric Probe. <i>Analytical Chemistry</i> , 2015, 87, 8292-8300.	6.5	55
20	A simple molecular structure of ortho-derived perylene diimide diploid for non-fullerene organic solar cells with efficiency over 8%. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22288-22296.	10.3	52
21	Fixable Molecular Thermometer for Real-Time Visualization and Quantification of Mitochondrial Temperature. <i>Analytical Chemistry</i> , 2018, 90, 13953-13959.	6.5	49
22	A Family of Highly Fluorescent and Unsymmetric Bis(BF ₂) Chromophore Containing Both Pyrrole and <i>N</i> -Heteroarene Derivatives: BOPPY. <i>Organic Letters</i> , 2018, 20, 4462-4466.	4.6	49
23	New trends of molecular probes based on the fluorophore 4-amino-1,8-naphthalimide. <i>Chinese Chemical Letters</i> , 2019, 30, 1799-1808.	9.0	48
24	Specifically and wash-free labeling of SNAP-tag fused proteins with a hybrid sensor to monitor local micro-viscosity. <i>Biosensors and Bioelectronics</i> , 2017, 91, 313-320.	10.1	47
25	Super-resolution imaging of lysosomes with a nitroso-caged rhodamine. <i>Chemical Communications</i> , 2018, 54, 2842-2845.	4.1	45
26	A new class of long-wavelength fluorophores: strong red fluorescence, convenient synthesis and easy derivation. <i>Chemical Communications</i> , 2005, , 239.	4.1	44
27	Bipolar and fixable probe targeting mitochondria to trace local depolarization via two-photon fluorescence lifetime imaging. <i>Analyst</i> , The, 2015, 140, 5488-5494.	3.5	44
28	Monitoring Nitric Oxide in Subcellular Compartments by Hybrid Probe Based on Rhodamine Spirolactam and SNAP-tag. <i>ACS Chemical Biology</i> , 2016, 11, 2033-2040.	3.4	44
29	Ratiometric imaging of mitochondrial pH in living cells with a colorimetric fluorescent probe based on fluorescein derivative. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 58-68.	7.8	43
30	Reflecting Size Differences of Exosomes by Using the Combination of Membrane-Targeting Viscosity Probe and Fluorescence Lifetime Imaging Microscopy. <i>Analytical Chemistry</i> , 2019, 91, 15308-15316.	6.5	40
31	Ratiometric sensing lysosomal pH in inflammatory macrophages by a BODIPY-rhodamine dyad with restrained FRET. <i>Chinese Chemical Letters</i> , 2020, 31, 1091-1094.	9.0	40
32	Targetable, two-photon fluorescent probes for local nitric oxide capture in the plasma membranes of live cells and brain tissues. <i>Analyst</i> , The, 2018, 143, 4180-4188.	3.5	39
33	A neutral pH probe of rhodamine derivatives inspired by effect of hydrogen bond on pKa and its organelle-targetable fluorescent imaging. <i>Dyes and Pigments</i> , 2016, 133, 93-99.	3.7	33
34	A novel family of AIE-active <i>meso</i> -2-ketopyrrolyl BODIPYs: bright solid-state red fluorescence, morphological properties and application as viscosimeters in live cells. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1823-1832.	5.9	33
35	Mitochondria-Anchored Molecular Thermometer Quantitatively Monitoring Cellular Inflammations. <i>Analytical Chemistry</i> , 2021, 93, 5081-5088.	6.5	33
36	Assessing chromatin condensation for epigenetics with a DNA-targeting sensor by FRET and FLIM techniques. <i>Chinese Chemical Letters</i> , 2021, 32, 2395-2399.	9.0	33

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37	A twist six-membered rhodamine-based fluorescent probe for hypochlorite detection in water and lysosomes of living cells. <i>Analytica Chimica Acta</i> , 2019, 1082, 116-125.	5.4	30
38	A targetable fluorescent probe for dSTORM super-resolution imaging of live cell nucleus DNA. <i>Chemical Communications</i> , 2019, 55, 1951-1954.	4.1	28
39	Heterologous perylene diimide arrays: potential non-fullerene acceptors in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8875-8882.	5.5	27
40	Forthrightly monitoring ferroptosis induced by endoplasmic reticulum stresses through fluorescence lifetime imaging of microviscosity increases with a specific rotor. <i>Chinese Chemical Letters</i> , 2022, 33, 2537-2540.	9.0	27
41	Synthesis and evaluation of novel 8-oxo-8H-cyclopenta[a]acenaphthylene-7-carbonitriles as long-wavelength fluorescent markers for hypoxic cells in solid tumor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 1562-1566.	2.2	25
42	Hoechst-naphthalimide dyad with dual emissions as specific and ratiometric sensor for nucleus DNA damage. <i>Chinese Chemical Letters</i> , 2017, 28, 2019-2022.	9.0	25
43	Amino-acid ester derived perylene diimides electron acceptor materials: An efficient strategy for green-solvent-processed organic solar cells. <i>Dyes and Pigments</i> , 2019, 164, 384-389.	3.7	23
44	Cyclohexanone Xanthene Dyes: A New Class of Near-Infrared Fluorophores for Super-Resolution Imaging of Live Cells. <i>Chemistry - A European Journal</i> , 2021, 27, 3688-3693.	3.3	23
45	A two-photon mitotracker based on a naphthalimide fluorophore: Synthesis, photophysical properties and cell imaging. <i>Chinese Chemical Letters</i> , 2014, 25, 1001-1005.	9.0	22
46	Perylene diimide arrays: promising candidates for non-fullerene organic solar cells. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12816-12824.	5.5	22
47	Versatile acenaphtho[1,2-b]pyrrol-carbonitriles as a new family of heterocycles: diverse SNArH reactions, cytotoxicity and spectral behavior. <i>Tetrahedron</i> , 2005, 61, 11264-11269.	1.9	19
48	Constructing a donor-acceptor linear-conjugation structure for heterologous perylene diimides to greatly improve the photovoltaic performance. <i>Journal of Materials Chemistry C</i> , 2019, 7, 835-842.	5.5	19
49	Terminal alkyne substituted O6-benzylguanine for versatile and effective syntheses of fluorescent labels to genetically encoded SNAP-tags. <i>RSC Advances</i> , 2015, 5, 23646-23649.	3.6	15
50	Total membrane lipid assay (MLA): simple and practical quantification of exosomes based on efficient membrane-specific dyes unaffected by proteins. <i>Materials Chemistry Frontiers</i> , 2018, 2, 2130-2139.	5.9	12
51	Always-on and water-soluble rhodamine amide designed by positive charge effect and application in mitochondrion-targetable imaging of living cells. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 32-38.	7.8	12
52	Singlet relaxation dynamics and long triplet lifetimes of thiophene-coupled perylene diimides dyads: New insights for high efficiency organic solar cells. <i>Chinese Chemical Letters</i> , 2020, 31, 2965-2969.	9.0	12
53	Quantitatively monitoring oxygen variation in endoplasmic reticulum with a fluorophore-phosphor energy transfer cassette. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1699-1705.	5.8	11
54	Intersystem Crossing and Triplet-State Property of Anthryl- and Carbazole-[1,12]fused Perylenebisimide Derivatives with a Twisted π -Conjugation Framework. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9317-9332.	2.6	11

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55	Revisit of a series of ICT fluorophores: skeletal characterization, structural modification, and spectroscopic behavior. <i>Tetrahedron</i> , 2014, 70, 5872-5877.	1.9	10
56	SNAP-Tag-Based Subcellular Protein Labeling and Fluorescent Imaging with Naphthalimides. <i>ChemBioChem</i> , 2017, 18, 1762-1769.	2.6	8
57	A nucleus targetable fluorescent probe for ratiometric imaging of endogenous NO in living cells and zebrafishes. <i>Analyst</i> , 2021, 146, 4130-4134.	3.5	8
58	Achieving efficient green-solvent-processed organic solar cells by employing ortho-ortho perylene diimide dimer. <i>Organic Electronics</i> , 2020, 83, 105732.	2.6	7
59	Oxygen-ether-bridged perylene diimide dimers: Efficient synthesis, properties, and photovoltaic performance. <i>Dyes and Pigments</i> , 2020, 180, 108508.	3.7	6
60	pKa modulation of rhodamine alkylamides by hydrogen-bond and application in bio-imaging. <i>Dyes and Pigments</i> , 2021, 188, 109173.	3.7	6
61	Naphthalimide-based probe with strong two-photon excited fluorescence and high specificity to cell membranes. <i>Results in Chemistry</i> , 2021, 3, 100100.	2.0	6
62	Dihydro-Si-rhodamine for live-cell localization microscopy. <i>Chemical Communications</i> , 2021, 57, 7553-7556.	4.1	4
63	Two-photon excitable red fluorophores for imaging living cells. <i>Dyes and Pigments</i> , 2018, 149, 851-857.	3.7	4
64	The mechanodonor-acceptor coupling (MDAC) approach for unidirectional multi-state fluorochromism. <i>Science China Chemistry</i> , 2021, 64, 253-262.	8.2	3
65	A new six-membered spiro-rhodamine probe for Cu ²⁺ and its imaging in mitochondria and lysosomes of HeLa cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 278, 121334.	3.9	2