

Xiaoqiang Chen

List of Publications by Year in descending order

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68
papers

10,879
citations

71102

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times ranked

8734
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescent Chemosensors Based on Spiroring-Opening of Xanthenes and Related Derivatives. <i>Chemical Reviews</i> , 2012, 112, 1910-1956.	47.7	1,795
2	Fluorescent and colorimetric probes for detection of thiols. <i>Chemical Society Reviews</i> , 2010, 39, 2120.	38.1	1,444
3	Recent progress in the development of fluorescent, luminescent and colorimetric probes for detection of reactive oxygen and nitrogen species. <i>Chemical Society Reviews</i> , 2016, 45, 2976-3016.	38.1	1,007
4	Fluorescent and luminescent probes for detection of reactive oxygen and nitrogen species. <i>Chemical Society Reviews</i> , 2011, 40, 4783.	38.1	890
5	Recent progress in luminescent and colorimetric chemosensors for detection of thiols. <i>Chemical Society Reviews</i> , 2013, 42, 6019.	38.1	781
6	Biosensors and chemosensors based on the optical responses of polydiacetylenes. <i>Chemical Society Reviews</i> , 2012, 41, 4610.	38.1	380
7	Hg ²⁺ Selective Fluorescent and Colorimetric Sensor: Its Crystal Structure and Application to Bioimaging. <i>Organic Letters</i> , 2008, 10, 5235-5238.	4.6	292
8	A near-infrared fluorescent sensor for detection of cyanide in aqueous solution and its application for bioimaging. <i>Chemical Communications</i> , 2010, 46, 8953.	4.1	285
9	Design Principles, Sensing Mechanisms, and Applications of Highly Specific Fluorescent Probes for HOCl/OCl ⁻ . <i>Accounts of Chemical Research</i> , 2019, 52, 2158-2168.	15.6	285
10	A thiol-specific fluorescent probe and its application for bioimaging. <i>Chemical Communications</i> , 2010, 46, 2751.	4.1	277
11	Thin-Film Formation of Imidazolium-Based Conjugated Polydiacetylenes and Their Application for Sensing Anionic Surfactants. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1422-1425.	13.8	264
12	A fluorescein-based probe with high selectivity to cysteine over homocysteine and glutathione. <i>Chemical Communications</i> , 2012, 48, 8341.	4.1	249
13	A specific and sensitive method for detection of hypochlorous acid for the imaging of microbe-induced HOCl production. <i>Chemical Communications</i> , 2011, 47, 4373.	4.1	238
14	Synthesis of a highly HOCl-selective fluorescent probe and its use for imaging HOCl in cells and organisms. <i>Nature Protocols</i> , 2016, 11, 1219-1228.	12.0	148
15	Naphthalimide-based fluorescent probe for selectively and specifically detecting glutathione in the lysosomes of living cells. <i>Chemical Communications</i> , 2016, 52, 721-724.	4.1	147
16	Benzothiazole-based fluorescent sensor for hypochlorite detection and its application for biological imaging. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 22-28.	7.8	124
17	In vivo near-infrared imaging and phototherapy of tumors using a cathepsin B-activated fluorescent probe. <i>Biomaterials</i> , 2017, 122, 130-140.	11.4	97
18	A highly specific fluorescent probe for hypochlorite based on fluorescein derivative and its endogenous imaging in living cells. <i>Dyes and Pigments</i> , 2015, 120, 22-29.	3.7	90

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19	A quinoline-based fluorescent chemosensor for distinguishing cadmium from zinc ions using cysteine as an auxiliary reagent. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 1116-1122.	7.8	86
20	An iminofluorescein-Cu ²⁺ ensemble probe for selective detection of thiols. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 698-703.	7.8	84
21	Color-Tunable and ESIPT-Inspired Solid Fluorophores Based on Benzothiazole Derivatives: Aggregation-Induced Emission, Strong Solvatochromic Effect, and White Light Emission. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55094-55106.	8.0	80
22	An "Off-On" Type UTP/UDP Selective Fluorescent Probe and Its Application to Monitor Glycosylation Process. <i>Organic Letters</i> , 2009, 11, 2181-2184.	4.6	79
23	A mitochondria-targeted fluorescent probe for ratiometric detection of hypochlorite in living cells. <i>Chinese Chemical Letters</i> , 2017, 28, 1957-1960.	9.0	77
24	Recent studies focusing on the development of fluorescence probes for zinc ion. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213636.	18.8	77
25	A Benzothiazole-Based Fluorescent Probe for Ratiometric Detection of Al ³⁺ in Aqueous Medium and Living Cells. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 12267-12275.	3.7	75
26	Benzothiazole-Based Fluorescent Sensor for Ratiometric Detection of Zn(II) Ions and Secondary Sensing PPI and Its Applications for Biological Imaging and PPase Catalysis Assays. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 8797-8805.	3.7	73
27	Enhanced response speed and selectivity of fluorescein-based H ₂ S probe via the cleavage of nitrobenzene sulfonyl ester assisted by ortho aldehyde groups. <i>Biosensors and Bioelectronics</i> , 2017, 87, 96-100.	10.1	71
28	Colorimetric and fluorometric detection of cationic surfactants based on conjugated polydiacetylene supramolecules. <i>Chemical Communications</i> , 2009, , 3434.	4.1	70
29	Ammonium-Bearing Dinuclear Copper(II) Complex: A Highly Selective and Sensitive Colorimetric Probe for Pyrophosphate. <i>Organic Letters</i> , 2014, 16, 2220-2223.	4.6	65
30	A benzothiazole-based fluorescent probe for efficient detection and discrimination of Zn ²⁺ and Cd ²⁺ , using cysteine as an auxiliary reagent. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 446-455.	7.8	64
31	A mitochondria-targeted fluorescent probe based on fluorescein derivative for detection of hypochlorite in living cells. <i>Dyes and Pigments</i> , 2018, 148, 353-358.	3.7	63
32	A fluorescent sensor bearing nitroolefin moiety for the detection of thiols and its biological imaging. <i>Dyes and Pigments</i> , 2013, 96, 232-236.	3.7	60
33	Highly Sensitive and Selective Fluorescent Probes for the Detection of HOCl/OCl ⁻ Based on Fluorescein Derivatives. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 3757-3764.	3.7	60
34	Near-infrared fluorescent probes for the detection of glutathione and their application in the fluorescence imaging of living cells and tumor-bearing mice. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2541-2546.	5.8	60
35	Design of a Metallacycle-Based Supramolecular Photosensitizer for In Vivo Image-Guided Photodynamic Inactivation of Bacteria. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202110048.	13.8	59
36	Rationally designed Ru(II)-metallacycle chemo-phototheranostic that emits beyond 1000 nm. <i>Chemical Science</i> , 2022, 13, 6541-6549.	7.4	54

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37	A fluorescent probe with high selectivity to glutathione over cysteine and homocysteine based on positive effect of carboxyl on nucleophilic substitution in CTAB. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 708-713.	7.8	53
38	A highly sensitive and selective fluorescein-based fluorescence probe for Au ³⁺ and its application in living cell imaging. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 1005-1010.	7.8	52
39	Sensing and antibacterial activity of imidazolium-based conjugated polydiacetylenes. <i>Biosensors and Bioelectronics</i> , 2016, 77, 1016-1019.	10.1	50
40	An ESIPT-based fluorescent probe for highly selective detection of glutathione in aqueous solution and living cells. <i>Dyes and Pigments</i> , 2016, 129, 156-162.	3.7	49
41	Observation of Switchable Dual-Conductive Channels and Related Nitric Oxide Gas-Sensing Properties in the N-rGO/ZnO Heterogeneous Structure. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19755-19767.	8.0	43
42	Recent advances in the development of polydiacetylene-based biosensors. <i>Chinese Chemical Letters</i> , 2019, 30, 1745-1757.	9.0	37
43	Diverse colorimetric changes of polydiacetylenes with cationic surfactants and their mechanistic studies. <i>Journal of Materials Chemistry</i> , 2011, 21, 17160.	6.7	36
44	The visualized fluorescent probes based on benzothiazole used to detect esterase. <i>Dyes and Pigments</i> , 2021, 191, 109349.	3.7	32
45	A bifunctional rhodamine derivative as chemosensor for recognizing Cu ²⁺ and Hg ²⁺ ions via different spectra. <i>Chinese Chemical Letters</i> , 2020, 31, 1087-1090.	9.0	31
46	A Near Infrared Cyanine-Based Fluorescent Probe for Highly Selectively Detecting Glutathione in Living Cells. <i>Chinese Journal of Chemistry</i> , 2016, 34, 594-598.	4.9	29
47	Filtration-Based Synthesis of Micelle-Derived Composite Membranes for High-Flux Ultrafiltration. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6974-6981.	8.0	27
48	The regulation of biothiol-responsive performance and bioimaging application of benzo[c][1,2,5]oxadiazole dyes. <i>Chinese Chemical Letters</i> , 2020, 31, 2891-2896.	9.0	26
49	A Highly Sensitive and Selective ppb-Level Acetone Sensor Based on a Pt-Doped 3D Porous SnO ₂ Hierarchical Structure. <i>Sensors</i> , 2020, 20, 1150.	3.8	26
50	Atomic layer deposition of polyimide on microporous polyethersulfone membranes for enhanced and tunable performances. <i>AIChE Journal</i> , 2014, 60, 3614-3622.	3.6	25
51	Two-photon fluorescence sensors for imaging NMDA receptors and monitoring release of Zn ²⁺ from the presynaptic terminal. <i>Biosensors and Bioelectronics</i> , 2017, 91, 770-779.	10.1	24
52	Sanger's Reagent Sensitized Photocleavage of Amide Bond for Constructing Photocages and Regulation of Biological Functions. <i>Journal of the American Chemical Society</i> , 2020, 142, 3806-3813.	13.7	24
53	A dinuclear-copper(II) complex-based sensor for pyrophosphate and its applications to detecting pyrophosphatase activity and monitoring polymerase chain reaction. <i>Sensors and Actuators B: Chemical</i> , 2016, 233, 591-598.	7.8	23
54	Nitric Oxide Detector Based on WO ₃ -1wt%In ₂ O ₃ -1wt%Nb ₂ O ₅ with State-of-the-Art Selectivity and ppb-Level Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42583-42592.	8.0	23

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55	Colorimetric and fluorometric assays for acetylcholinesterase and its inhibitors screening based on a fluorescein derivate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 552-555.	2.2	22
56	A cyanine dye-based fluorescent probe as indicator of copper clock reaction for tracing Cu ²⁺ -catalyzed oxidation of cysteine. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126578.	7.8	22
57	Photostimulated Spiropyran for Instantaneous Visualization of Thermal Field Distribution and Flow Pattern. <i>Journal of the American Chemical Society</i> , 2020, 142, 20066-20070.	13.7	22
58	A rhodol-derived probe for intracellular biothiols imaging and rapid labelling of sulfhydryl-containing proteins. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132148.	7.8	19
59	Selective-swelling-induced porous block copolymers and their robust TiO ₂ replicas via atomic layer deposition for antireflective applications. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5133.	5.5	18
60	PEGylated Dimeric BODIPY Photosensitizers as Nanocarriers for Combined Chemotherapy and Cathepsin B-Activated Photodynamic Therapy in 3D Tumor Spheroids. <i>ACS Applied Bio Materials</i> , 2020, 3, 3835-3845.	4.6	18
61	Benzothiazole derivatives based colorimetric and fluorescent probes for detection of amine/ammonia and monitoring the decomposition of urea by urease. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 267, 120616.	3.9	18
62	Highly Selective, ppb-Level Xylene Gas Detection by Sn ²⁺ -Doped NiO Flower-Like Microspheres Prepared by a One-Step Hydrothermal Method. <i>Sensors</i> , 2019, 19, 2958.	3.8	17
63	Naphthalimide-sulfonamide fused dansyl-sulfonamide fluorescent probe for tracking glutathione of lysosome with a dual-emission manner. <i>Dyes and Pigments</i> , 2019, 171, 107685.	3.7	15
64	Fabrication of nonbiofouling metal stent and inÂvitro studies on its hemocompatibility. <i>Journal of Biomaterials Applications</i> , 2014, 29, 14-25.	2.4	11
65	Design of a Metallacycleâ€Based Supramolecular Photosensitizer for In Vivo Imageâ€Guided Photodynamic Inactivation of Bacteria. <i>Angewandte Chemie</i> , 0, , .	2.0	11
66	The synthesis of UDP-selective fluorescent probe and its imaging application in living cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 262-265.	2.2	8
67	Colorimetric and fluorometric detection of NADPH using imidazolium functionalized polydiacetylenes with high sensitivity and selectivity. <i>Dyes and Pigments</i> , 2020, 183, 108740.	3.7	8
68	Recent Progress in the Development of Fluorometric Chemosensors to Detect Enzymatic Activity. <i>Current Medicinal Chemistry</i> , 2019, 26, 3923-3957.	2.4	7