Zhiqiang Zhang

List of Publications by Year
in descending order

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Version: 2024-02-01

83 papers	1,938 citations	257450 24 h-index	276875 41 g-index
85 all docs	85 docs citations	85 times ranked	2200 citing authors

#	Article	IF	Citations
1	Structure, Performance, and Application of BiFeO3 Nanomaterials. Nano-Micro Letters, 2020, 12, 81.	27.0	150
2	Rapid Response Fluorescence Probe Enabled In Vivo Diagnosis and Assessing Treatment Response of Hypochlorous Acidâ€Mediated Rheumatoid Arthritis. Advanced Science, 2018, 5, 1800397.	11.2	116
3	Single-atom Ru anchored in nitrogen-doped MXene (Ti₃C₂T_x) as an efficient catalyst for the hydrogen evolution reaction at all pH values. Journal of Materials Chemistry A, 2020, 8, 24710-24717.	10.3	102
4	NBD-based fluorescent chemosensor for the selective quantification of copper and sulfide in an aqueous solution and living cells. Organic and Biomolecular Chemistry, 2015, 13, 2918-2926.	2.8	87
5	A highly selective and sensitive ONâ€“OFFâ€“ON fluorescence chemosensor for cysteine detection in endoplasmic reticulum. Biosensors and Bioelectronics, 2015, 74, 461-468.	10.1	86
6	A pyrene-based dual chemosensor for colorimetric detection of Cu 2+ and fluorescent detection of Fe 3+. Tetrahedron Letters, 2017, 58, 3951-3956.	1.4	66
7	Responsive Upconversion Nanoprobe for Backgroundâ€Free Hypochlorous Acid Detection and Bioimaging. Small, 2019, 15, e1803712.	10.0	59
8	Copper-catalyzed decarboxylative C3-acylation of free (Nâ€“H) indoles with Î±-oxocarboxylic acids. Organic and Biomolecular Chemistry, 2014, 12, 1721.	2.8	58
9	A reversible fluorescence chemosensor for sequentially quantitative monitoring copper and sulfide in living cells. Talanta, 2015, 143, 294-301.	5.5	58
10	A highly sensitive electrochemical biosensor for phenol derivatives using a graphene oxide-modified tyrosinase electrode. Bioelectrochemistry, 2018, 122, 174-182.	4.6	57
11	A New Red-Emitting Fluorescence Probe for Rapid and Effective Visualization of Bisulfite in Food Samples and Live Animals. Journal of Agricultural and Food Chemistry, 2019, 67, 4375-4383.	5.2	56
12	Turn-On Fluorescence Probe for Nitric Oxide Detection and Bioimaging in Live Cells and Zebrafish. ACS Sensors, 2019, 4, 309-316.	7.8	56
13	Nanogenerator-Based Self-Charging Energy Storage Devices. Nano-Micro Letters, 2019, 11, 19.	27.0	53
14	Humidity- and Water-Responsive Torsional and Contractile Lotus Fiber Yarn Artificial Muscles. ACS Applied Materials & Interfaces, 2021, 13, 6642-6649.	8.0	47
15	Fluorescence detection of Fe3+ ions in aqueous solution and living cells based on a high selectivity and sensitivity chemosensor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 149, 674-681.	3.9	45
16	Red-Emission Probe for Ratiometric Fluorescent Detection of Bisulfite and Its Application in Live Animals and Food Samples. ACS Omega, 2020, 5, 5452-5459.	3.5	36
17	A ratiometric fluorescence probe for imaging sulfur dioxide derivatives in the mitochondria of living cells. Organic and Biomolecular Chemistry, 2017, 15, 2734-2739.	2.8	34
18	A new fluorescent chemosensor for highly selective and sensitive detection of inorganic phosphate (Pi) in aqueous solution and living cells. RSC Advances, 2015, 5, 53189-53197.	3.6	33

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19	A visible-near-infrared fluorescent probe for peroxynitrite with large pseudo-Stokes and emission shift via through-bond energy and charge transfers controlled by energy matching. Journal of Materials Chemistry B, 2018, 6, 2489-2496.	5.8	33
20	A phenothiazine-based turn-on fluorescent probe for the selective detection of hydrogen sulfide in food, live cells and animals. Analyst, The, 2021, 146, 7528-7536.	3.5	32
21	Synthesis and Application of an Aldazine-Based Fluorescence Chemosensor for the Sequential Detection of Cu2+ and Biological Thiols in Aqueous Solution and Living Cells. Sensors, 2016, 16, 79.	3.8	28
22	A highly specific fluorescent probe for rapid detection of hypochlorous acidin vivoand in water samples. Journal of Materials Chemistry B, 2019, 7, 3909-3916.	5.8	28
23	Reversible and Selective Fluorescence Detection of Histidine Using a Naphthalimideâ€Based Chemosensing Ensemble. Chemistry - an Asian Journal, 2015, 10, 2411-2418.	3.3	25
24	Selective and sensitive detection of cysteine in water and live cells using a coumarinâ€“Cu²⁺ fluorescent ensemble. New Journal of Chemistry, 2018, 42, 15839-15846.	2.8	25
25	A gadolinium(<scp>iii</scp>) complex based dual-modal probe for MRI and fluorescence sensing of fluoride ions in aqueous medium and in vivo. Dalton Transactions, 2016, 45, 17616-17623.	3.3	24
26	A fast response fluorescence probe specific for hypochlorous acid detection and its applications in bioimaging. Organic and Biomolecular Chemistry, 2018, 16, 2074-2082.	2.8	24
27	Fluoride-specific fluorescence/MRI bimodal probe based on a gadolinium(<scp>iii</scp>)â€“flavone complex: synthesis, mechanism and bioimaging application in vivo. Journal of Materials Chemistry B, 2016, 4, 7379-7386.	5.8	23
28	Responsive Fluorescence Probe for Selective and Sensitive Detection of Hypochlorous Acid in Live Cells and Animals. Chemistry - an Asian Journal, 2018, 13, 2611-2618.	3.3	23
29	Mechanisms and Stereoselectivities of NHCâ€Catalyzed [3 + 4] Cycloaddition Reaction between Isatinâ€Derived Enal and Nâ€(orthoâ€Chloromethyl)aryl Amide. European Journal of Organic Chemistry, 2019, 2019, 2989-2997.	2.4	22
30	Conjuncted photo-thermoelectric effect in ZnOâ€“graphene nanocomposite foam for self-powered simultaneous temperature and light sensing. Scientific Reports, 2020, 10, 11864.	3.3	22
31	A mitochondria-targeted ratiometric probe for the fluorescent and colorimetric detection of SO2 derivatives in live cells. Journal of Luminescence, 2017, 192, 297-302.	3.1	21
32	A gadolinium(III)-coumarin complex based MRI/Fluorescence bimodal probe for the detection of fluoride ion in aqueous medium. Tetrahedron, 2017, 73, 5700-5705.	1.9	19
33	Carbon Black-Carbon Nanotube Co-Doped Polyimide Sensors for Simultaneous Determination of Ascorbic Acid, Uric Acid, and Dopamine. Materials, 2018, 11, 1691.	2.9	19
34	A novel glucosamine-linked fluorescent chemosensor for the detection of pyrophosphate in an aqueous medium and live cells. New Journal of Chemistry, 2018, 42, 2675-2681.	2.8	18
35	Copper-catalyzed synthesis of indolyl diketones via Câ€“H oxidation/diacylation of indoles with arylglyoxal hydrates. Organic and Biomolecular Chemistry, 2017, 15, 6185-6193.	2.8	15
36	Pyromellitic-Based Low Molecular Weight Gelators and Computational Studies of Intermolecular Interactions: A Potential Additive for Lubricant. Langmuir, 2021, 37, 2954-2962.	3.5	15

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37	A new ensemble approach based chemosensor for the reversible detection of bio-thiols and its application in live cell imaging. Journal of Luminescence, 2016, 175, 122-128.	3.1	14
38	Selective detection of inorganic phosphates in live cells based on a responsive fluorescence probe. New Journal of Chemistry, 2017, 41, 9623-9630.	2.8	14
39	Understanding the mechanism and stereoselectivity of NHC-catalyzed [3 + 2] cycloaddition of 3-bromoenals and isatin N-Boc ketimines. Organic and Biomolecular Chemistry, 2018, 16, 9251-9258.	2.8	14
40	A Redox-Switchable Colorimetric Probe for â€œNaked-Eyeâ€•Detection of Hypochlorous Acid and Glutathione. Molecules, 2019, 24, 2455.	3.8	14
41	Reduced efficiency roll-off in electrophosphorescent devices by a short-living rhenium emitter with well-matched energy levels. Applied Physics Letters, 2010, 97, 263303.	3.3	13
42	Application of pyrite and chalcopyrite as sensor electrode for amperometric detection and measurement of hydrogen peroxide. RSC Advances, 2018, 8, 5013-5019.	3.6	13
43	Nonsiliceous Mesoporous Materials: Design and Applications in Energy Conversion and Storage. Small, 2019, 15, 1805277.	10.0	13
44	Ru catalyst supported on nitrogen-doped nanotubes as high efficiency electrocatalysts for hydrogen evolution in alkaline media. RSC Advances, 2020, 10, 22297-22303.	3.6	13
45	Visualization of Fluoride Ions In Vivo Using a Gadolinium(III)-Coumarin Complex-Based Fluorescence/MRI Dual-Modal Probe. Sensors, 2016, 16, 2165.	3.8	12
46	Electrochemical Sensing Platform Based on Lotus Stemâ€derived Porous Carbon for the Simultaneous Determination of Hydroquinone, Catechol and Nitrite. Electroanalysis, 2021, 33, 956-963.	2.9	12
47	Natural Molybdenite- and Tyrosinase-Based Amperometric Catechol Biosensor Using Acridine Orange as a Glue, Anchor, and Stabilizer for the Adsorbed Tyrosinase. ACS Omega, 2021, 6, 13719-13727.	3.5	12
48	A Novel Fluorescence Probe for the Reversible Detection of Bisulfite and Hydrogen Peroxide Pair in Vitro and in Vivo. Chemistry - an Asian Journal, 2021, 16, 3419-3426.	3.3	11
49	Mechanisms of phosphine-catalyzed [3+3] cycloaddition of ynones and azomethine imines: a DFT study. New Journal of Chemistry, 2019, 43, 13600-13607.	2.8	10
50	Quinoline-based fluorescent probe for the detection and monitoring of hypochlorous acid in a rheumatoid arthritis model. RSC Advances, 2021, 11, 31656-31662.	3.6	10
51	Mechanism and stereoselectivity in NHC-catalyzed Î²-functionalization of saturated carboxylic ester. RSC Advances, 2019, 9, 7635-7644.	3.6	9
52	Electrochemical evaluation of sulfide mineral modified glassy carbon electrode as novel mediated glucose biosensor. Journal of Electroanalytical Chemistry, 2021, 894, 115357.	3.8	9
53	A Coumarinâ€“based Colorimetric and Fluorescent Chemosensor for the â€œNakedâ€“eyeâ€•Detection of Fluoride ion in 100â€‰% Natural Water Medium Using Coated Chromatography Plates. ChemistrySelect, 2016, 1, 4397-4402.	1.5	8
54	A Glassy Carbon Electrode Modified with Molybdenite and Ag Nanoparticle Composite for Selectively Sensing of Ascorbic Acid. Analytical Sciences, 2019, 35, 733-738.	1.6	8

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55	A computational study on NHC-Catalyzed [3+4] annulation between isatin-derived enal and aurone-derived azadiene: Insights into mechanism and stereoselectivity. Molecular Catalysis, 2020, 496, 111183.	2.0	8
56	Computational study on NHC catalyzed [4+2] annulation between Î³-chloroenals and pyrazolinones: mechanism and stereoselectivity. New Journal of Chemistry, 2020, 44, 11643-11651.	2.8	8
57	A Novel Flexible Electrochemical Ascorbic Acid Sensor Constructed by Ferrocene Methanol doped Multiâ€walled Carbon Nanotube Yarn. Electroanalysis, 2021, 33, 2445-2451.	2.9	8
58	Tyrosinase Modified Poly(thionine) Electrodeposited Glassy Carbon Electrode for Amperometric Determination of Catechol. Electrochemistry, 2017, 85, 17-22.	1.4	7
59	A Copper (II) Ensemble-Based Fluorescence Chemosensor and Its Application in the â€˜Nakedâ€“Eyeâ€™ Detection of Biothiols in Human Urine. Sensors, 2020, 20, 1331.	3.8	7
60	Mechanism and regio- and stereoselectivity in an NHC-catalyzed Mannich/lactamization domino reaction. Physical Chemistry Chemical Physics, 2021, 23, 6204-6212.	2.8	7
61	Mechanistic study on the NHC-catalyzed [3+4] annulation of enals and thiazolones. New Journal of Chemistry, 2021, 45, 12129-12137.	2.8	7
62	Regioselective N-1 and C-2 diacylation of 3-substituted indoles with arylglyoxal hydrates for the synthesis of indolyl diketones. Organic and Biomolecular Chemistry, 2018, 16, 6998-7003.	2.8	6
63	Mechanisms and origins of stereoselectivity of NHC-catalyzed reaction of aldehyde and butadienoate. Molecular Catalysis, 2020, 492, 111030.	2.0	6
64	A Sensitive Electrochemical Ascorbic Acid Sensor Using Glassy Carbon Electrode Modified by Molybdenite with Electrodeposited Methylene Blue. Applied Biochemistry and Biotechnology, 2020, 191, 1533-1544.	2.9	6
65	A <scp>DFT</scp> study on <scp>NHCâ€catalyzed</scp> [4â€‰+â€‰2] annulation of <scp>2Hâ€azirines</scp> with ketones: Mechanism and selectivity. International Journal of Quantum Chemistry, 2021, 121, e26557.	2.0	6
66	A General Strategy for Throughâ€Bond Energy Transfer Fluorescence Probes Combining Intramolecular Charge Transfer: A Silyl Ether System for Endogenous Peroxynitrite Sensing. Chemistry - A European Journal, 2019, 25, 16350-16357.	3.3	5
67	An amperometric glucose biosensor based on electrostatic force induced layer-by-layer GOD/chitosan/pyrite on a glassy carbon electrode. Analytical Sciences, 2022, 38, 553-562.	1.6	5
68	Pd-Catalyzed Î³-Acetoxylation of Alkylamides: Structural Influence of Directing Groups. Journal of Organic Chemistry, 2022, 87, 6378-6386.	3.2	5
69	Development of a new water-soluble fluorescence probe for hypochlorous acid detection in drinking water. Food Chemistry Molecular Sciences, 2021, 2, 100027.	2.1	4
70	A DFT study of NHC-catalyzed reactions between 2-bromo-2-enals and acylhydrazones: mechanisms, and chemo- and stereoselectivities. New Journal of Chemistry, 2022, 46, 9146-9154.	2.8	3
71	Sequential detection of hypochlorous acid and sulfur dioxide derivatives by a red-emitting fluorescent probe and bioimaging applications in vitro and in vivo. RSC Advances, 2022, 12, 15861-15869.	3.6	3
72	POPd/TBAB co-catalyzed Suzuki cross-coupling reaction of heteroaryl chlorides/bromides with 4-fluorophenylboronic acid in water. Journal of the Iranian Chemical Society, 2016, 13, 637-644.	2.2	2

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73	High impact strength of polypropylene composites with complex titanate whiskers/multiwalled carbon nanotubes. Journal of Polymer Research, 2020, 27, 1.	2.4	2
74	Theoretical study of the [3Â+Â4] annulation reaction of 2-bromoenals with malonates catalyzed by N-heterocyclic carbene. Molecular Catalysis, 2021, 509, 111647.	2.0	2
75	Mechanism and regio- and stereoselectivity in NHC-catalyzed reaction of 2-bromoenals with Î²-ketoamides. Molecular Catalysis, 2021, 513, 111790.	2.0	2
76	Molten-salt-composite of Pyrite and Silver Nanoparticle as Electrocatalyst for Hydrogen Peroxide Sensing. Analytical Sciences, 2021, 37, 1589-1595.	1.6	2
77	Metalâ€“organic framework-derived MCF/PPy/MoS₂ hybrid nanocomposites as an anode for lithium-ion batteries. New Journal of Chemistry, 2022, 46, 10073-10080.	2.8	2
78	An expeditious aqueous Suzuki-Miyaura method for the substituted aryl heterocyclics. Journal of Environmental Sciences, 2009, 21, S65-S68.	6.1	1
79	Transformation of Stored Energy into Light in the Chemiluminescence of 1,2-Dioxetanes. ChemPhotoChem, 2018, 2, 421-424.	3.0	0
80	A Silyl Ether Based Fluorescent Probe for Rapid Monitoring of Endogenous Peroxynitrite Concentration and Imaging in Living Cells through Multicolor Emission. ChemPlusChem, 2020, 85, 684-688.	2.8	0
81	A Red-Emission Fluorescence Probe Based on 1,4-Addition Reaction Mechanism for the Detection of Biothiols in Vitro and in Vivo. Analytical Sciences, 2021, , .	1.6	0
82	DFT Insights into the Hydrodenitrogenation and Ring-Opening of Indole on an M (M = Ni, Pt, Niâ€“Pt) Slab Model. Symmetry, 2021, 13, 1950.	2.2	0
83	NHC Catalyzed Î²-Carbon functionalization of carboxylic esters towards formation of Î´-Lactams: A mechanistic study. Molecular Catalysis, 2022, 524, 112311.	2.0	0