

Zhiqiang Zhang

List of Publications by Year in descending order

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83
papers

1,938
citations

257450

24
h-index

276875

41
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85
all docs

85
docs citations

85
times ranked

2200
citing authors

#	ARTICLE	IF	CITATIONS
1	An amperometric glucose biosensor based on electrostatic force induced layer-by-layer GOD/chitosan/pyrite on a glassy carbon electrode. <i>Analytical Sciences</i> , 2022, 38, 553-562.	1.6	5
2	A DFT study of NHC-catalyzed reactions between 2-bromo-2-enals and acylhydrazones: mechanisms, and chemo- and stereoselectivities. <i>New Journal of Chemistry</i> , 2022, 46, 9146-9154.	2.8	3
3	Pd-Catalyzed β -Acetoxylation of Alkylamides: Structural Influence of Directing Groups. <i>Journal of Organic Chemistry</i> , 2022, 87, 6378-6386.	3.2	5
4	Metal-organic framework-derived MCF/PPy/MoS ₂ hybrid nanocomposites as an anode for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2022, 46, 10073-10080.	2.8	2
5	NHC Catalyzed α -Carbon functionalization of carboxylic esters towards formation of β -Lactams: A mechanistic study. <i>Molecular Catalysis</i> , 2022, 524, 112311.	2.0	0
6	Sequential detection of hypochlorous acid and sulfur dioxide derivatives by a red-emitting fluorescent probe and bioimaging applications <i>in vitro</i> and <i>in vivo</i> . <i>RSC Advances</i> , 2022, 12, 15861-15869.	3.6	3
7	A DFT study on NHC-catalyzed [4+2] annulation of 2-hydrozines, with ketones: Mechanism and selectivity. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26557.	2.0	6
8	Electrochemical Sensing Platform Based on Lotus Stem-derived Porous Carbon for the Simultaneous Determination of Hydroquinone, Catechol and Nitrite. <i>Electroanalysis</i> , 2021, 33, 956-963.	2.9	12
9	Mechanism and regio- and stereoselectivity in an NHC-catalyzed Mannich/lactamization domino reaction. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6204-6212.	2.8	7
10	Quinoline-based fluorescent probe for the detection and monitoring of hypochlorous acid in a rheumatoid arthritis model. <i>RSC Advances</i> , 2021, 11, 31656-31662.	3.6	10
11	Mechanistic study on the NHC-catalyzed [3+4] annulation of enals and thiazolones. <i>New Journal of Chemistry</i> , 2021, 45, 12129-12137.	2.8	7
12	A Red-Emission Fluorescence Probe Based on 1,4-Addition Reaction Mechanism for the Detection of Biothiols <i>in Vitro</i> and <i>in Vivo</i> . <i>Analytical Sciences</i> , 2021, , .	1.6	0
13	Humidity- and Water-Responsive Torsional and Contractile Lotus Fiber Yarn Artificial Muscles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6642-6649.	8.0	47
14	Pyromellitic-Based Low Molecular Weight Gelators and Computational Studies of Intermolecular Interactions: A Potential Additive for Lubricant. <i>Langmuir</i> , 2021, 37, 2954-2962.	3.5	15
15	Natural Molybdenite- and Tyrosinase-Based Amperometric Catechol Biosensor Using Acridine Orange as a Glue, Anchor, and Stabilizer for the Adsorbed Tyrosinase. <i>ACS Omega</i> , 2021, 6, 13719-13727.	3.5	12
16	Theoretical study of the [3+4] annulation reaction of 2-bromo-enals with malonates catalyzed by N-heterocyclic carbene. <i>Molecular Catalysis</i> , 2021, 509, 111647.	2.0	2
17	Development of a new water-soluble fluorescence probe for hypochlorous acid detection in drinking water. <i>Food Chemistry Molecular Sciences</i> , 2021, 2, 100027.	2.1	4
18	Electrochemical evaluation of sulfide mineral modified glassy carbon electrode as novel mediated glucose biosensor. <i>Journal of Electroanalytical Chemistry</i> , 2021, 894, 115357.	3.8	9

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19	Mechanism and regio- and stereoselectivity in NHC-catalyzed reaction of 2-bromoaldehydes with β -ketoamides. <i>Molecular Catalysis</i> , 2021, 513, 111790.	2.0	2
20	A Novel Flexible Electrochemical Ascorbic Acid Sensor Constructed by Ferrocene Methanol doped Multi-walled Carbon Nanotube Yarn. <i>Electroanalysis</i> , 2021, 33, 2445-2451.	2.9	8
21	A Novel Fluorescence Probe for the Reversible Detection of Bisulfite and Hydrogen Peroxide Pair <i>in Vitro</i> and <i>in Vivo</i> . <i>Chemistry - an Asian Journal</i> , 2021, 16, 3419-3426.	3.3	11
22	DFT Insights into the Hydrodenitrogenation and Ring-Opening of Indole on an M (M = Ni, Pt, Ni@Pt) Slab Model. <i>Symmetry</i> , 2021, 13, 1950.	2.2	0
23	A phenothiazine-based turn-on fluorescent probe for the selective detection of hydrogen sulfide in food, live cells and animals. <i>Analyst</i> , 2021, 146, 7528-7536.	3.5	32
24	Molten-salt-composite of Pyrite and Silver Nanoparticle as Electrocatalyst for Hydrogen Peroxide Sensing. <i>Analytical Sciences</i> , 2021, 37, 1589-1595.	1.6	2
25	Conjoined photo-thermoelectric effect in ZnO/graphene nanocomposite foam for self-powered simultaneous temperature and light sensing. <i>Scientific Reports</i> , 2020, 10, 11864.	3.3	22
26	High impact strength of polypropylene composites with complex titanate whiskers/multiwalled carbon nanotubes. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	2
27	A computational study on NHC-Catalyzed [3+4] annulation between isatin-derived enal and aurone-derived azadiene: Insights into mechanism and stereoselectivity. <i>Molecular Catalysis</i> , 2020, 496, 111183.	2.0	8
28	Single-atom Ru anchored in nitrogen-doped MXene ($\text{Ti}_3\text{C}_2\text{T}_x$) as an efficient catalyst for the hydrogen evolution reaction at all pH values. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24710-24717.	10.3	102
29	Mechanisms and origins of stereoselectivity of NHC-catalyzed reaction of aldehyde and butadienoate. <i>Molecular Catalysis</i> , 2020, 492, 111030.	2.0	6
30	Ru catalyst supported on nitrogen-doped nanotubes as high efficiency electrocatalysts for hydrogen evolution in alkaline media. <i>RSC Advances</i> , 2020, 10, 22297-22303.	3.6	13
31	A Sensitive Electrochemical Ascorbic Acid Sensor Using Glassy Carbon Electrode Modified by Molybdenite with Electrodeposited Methylene Blue. <i>Applied Biochemistry and Biotechnology</i> , 2020, 191, 1533-1544.	2.9	6
32	A Silyl Ether Based Fluorescent Probe for Rapid Monitoring of Endogenous Peroxynitrite Concentration and Imaging in Living Cells through Multicolor Emission. <i>ChemPlusChem</i> , 2020, 85, 684-688.	2.8	0
33	A Copper (II) Ensemble-Based Fluorescence Chemosensor and Its Application in the "Naked-Eye"™ Detection of Biothiols in Human Urine. <i>Sensors</i> , 2020, 20, 1331.	3.8	7
34	Computational study on NHC catalyzed [4+2] annulation between β -chloroaldehydes and pyrazolinones: mechanism and stereoselectivity. <i>New Journal of Chemistry</i> , 2020, 44, 11643-11651.	2.8	8
35	Red-Emission Probe for Ratiometric Fluorescent Detection of Bisulfite and Its Application in Live Animals and Food Samples. <i>ACS Omega</i> , 2020, 5, 5452-5459.	3.5	36
36	Structure, Performance, and Application of BiFeO ₃ Nanomaterials. <i>Nano-Micro Letters</i> , 2020, 12, 81.	27.0	150

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37	Mechanisms of phosphine-catalyzed [3+3] cycloaddition of ynones and azomethine imines: a DFT study. <i>New Journal of Chemistry</i> , 2019, 43, 13600-13607.	2.8	10
38	A Glassy Carbon Electrode Modified with Molybdenite and Ag Nanoparticle Composite for Selectively Sensing of Ascorbic Acid. <i>Analytical Sciences</i> , 2019, 35, 733-738.	1.6	8
39	A Redox-Switchable Colorimetric Probe for "Naked-Eye" Detection of Hypochlorous Acid and Glutathione. <i>Molecules</i> , 2019, 24, 2455.	3.8	14
40	A General Strategy for Through-Bond Energy Transfer Fluorescence Probes Combining Intramolecular Charge Transfer: A Silyl Ether System for Endogenous Peroxynitrite Sensing. <i>Chemistry - A European Journal</i> , 2019, 25, 16350-16357.	3.3	5
41	A highly specific fluorescent probe for rapid detection of hypochlorous acid <i>in vivo</i> and in water samples. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3909-3916.	5.8	28
42	Mechanisms and Stereoselectivities of NHC-Catalyzed [3 + 4] Cycloaddition Reaction between Isatin-Derived Enal and <i>ortho</i> -Chloromethyl)aryl Amide. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 2989-2997.	2.4	22
43	A New Red-Emitting Fluorescence Probe for Rapid and Effective Visualization of Bisulfite in Food Samples and Live Animals. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 4375-4383.	5.2	56
44	Nanogenerator-Based Self-Charging Energy Storage Devices. <i>Nano-Micro Letters</i> , 2019, 11, 19.	27.0	53
45	Nonsiliceous Mesoporous Materials: Design and Applications in Energy Conversion and Storage. <i>Small</i> , 2019, 15, 1805277.	10.0	13
46	Mechanism and stereoselectivity in NHC-catalyzed β^2 -functionalization of saturated carboxylic ester. <i>RSC Advances</i> , 2019, 9, 7635-7644.	3.6	9
47	Turn-On Fluorescence Probe for Nitric Oxide Detection and Bioimaging in Live Cells and Zebrafish. <i>ACS Sensors</i> , 2019, 4, 309-316.	7.8	56
48	Responsive Upconversion Nanoprobe for Background-Free Hypochlorous Acid Detection and Bioimaging. <i>Small</i> , 2019, 15, e1803712.	10.0	59
49	A fast response fluorescence probe specific for hypochlorous acid detection and its applications in bioimaging. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 2074-2082.	2.8	24
50	A highly sensitive electrochemical biosensor for phenol derivatives using a graphene oxide-modified tyrosinase electrode. <i>Bioelectrochemistry</i> , 2018, 122, 174-182.	4.6	57
51	Application of pyrite and chalcopyrite as sensor electrode for amperometric detection and measurement of hydrogen peroxide. <i>RSC Advances</i> , 2018, 8, 5013-5019.	3.6	13
52	Transformation of Stored Energy into Light in the Chemiluminescence of 1,2-Dioxetanes. <i>ChemPhotoChem</i> , 2018, 2, 421-424.	3.0	0
53	A novel glucosamine-linked fluorescent chemosensor for the detection of pyrophosphate in an aqueous medium and live cells. <i>New Journal of Chemistry</i> , 2018, 42, 2675-2681.	2.8	18
54	A visible-near-infrared fluorescent probe for peroxynitrite with large pseudo-Stokes and emission shift <i>via</i> through-bond energy and charge transfers controlled by energy matching. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2489-2496.	5.8	33

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55	Understanding the mechanism and stereoselectivity of NHC-catalyzed [3 + 2] cycloaddition of 3-bromoenals and isatin <i>N</i> -Boc ketimines. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 9251-9258.	2.8	14
56	Carbon Black-Carbon Nanotube Co-Doped Polyimide Sensors for Simultaneous Determination of Ascorbic Acid, Uric Acid, and Dopamine. <i>Materials</i> , 2018, 11, 1691.	2.9	19
57	Regioselective N-1 and C-2 diacylation of 3-substituted indoles with arylglyoxal hydrates for the synthesis of indolyl diketones. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 6998-7003.	2.8	6
58	Responsive Fluorescence Probe for Selective and Sensitive Detection of Hypochlorous Acid in Live Cells and Animals. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2611-2618.	3.3	23
59	Selective and sensitive detection of cysteine in water and live cells using a coumarin-Cu ²⁺ fluorescent ensemble. <i>New Journal of Chemistry</i> , 2018, 42, 15839-15846.	2.8	25
60	Rapid Response Fluorescence Probe Enabled In Vivo Diagnosis and Assessing Treatment Response of Hypochlorous Acid-Mediated Rheumatoid Arthritis. <i>Advanced Science</i> , 2018, 5, 1800397.	11.2	116
61	A mitochondria-targeted ratiometric probe for the fluorescent and colorimetric detection of SO ₂ derivatives in live cells. <i>Journal of Luminescence</i> , 2017, 192, 297-302.	3.1	21
62	A ratiometric fluorescence probe for imaging sulfur dioxide derivatives in the mitochondria of living cells. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 2734-2739.	2.8	34
63	A pyrene-based dual chemosensor for colorimetric detection of Cu ²⁺ and fluorescent detection of Fe ³⁺ . <i>Tetrahedron Letters</i> , 2017, 58, 3951-3956.	1.4	66
64	Selective detection of inorganic phosphates in live cells based on a responsive fluorescence probe. <i>New Journal of Chemistry</i> , 2017, 41, 9623-9630.	2.8	14
65	A gadolinium(III)-coumarin complex based MRI/Fluorescence bimodal probe for the detection of fluoride ion in aqueous medium. <i>Tetrahedron</i> , 2017, 73, 5700-5705.	1.9	19
66	Copper-catalyzed synthesis of indolyl diketones via C-H oxidation/diacylation of indoles with arylglyoxal hydrates. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6185-6193.	2.8	15
67	Tyrosinase Modified Poly(thionine) Electrodeposited Glassy Carbon Electrode for Amperometric Determination of Catechol. <i>Electrochemistry</i> , 2017, 85, 17-22.	1.4	7
68	Synthesis and Application of an Aldazine-Based Fluorescence Chemosensor for the Sequential Detection of Cu ²⁺ and Biological Thiols in Aqueous Solution and Living Cells. <i>Sensors</i> , 2016, 16, 79.	3.8	28
69	Visualization of Fluoride Ions In Vivo Using a Gadolinium(III)-Coumarin Complex-Based Fluorescence/MRI Dual-Modal Probe. <i>Sensors</i> , 2016, 16, 2165.	3.8	12
70	A gadolinium(III) complex based dual-modal probe for MRI and fluorescence sensing of fluoride ions in aqueous medium and in vivo. <i>Dalton Transactions</i> , 2016, 45, 17616-17623.	3.3	24
71	A Coumarin-based Colorimetric and Fluorescent Chemosensor for the "Naked-eye" Detection of Fluoride ion in 100% Natural Water Medium Using Coated Chromatography Plates. <i>ChemistrySelect</i> , 2016, 1, 4397-4402.	1.5	8
72	Fluoride-specific fluorescence/MRI bimodal probe based on a gadolinium(III)-flavone complex: synthesis, mechanism and bioimaging application in vivo. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7379-7386.	5.8	23

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73	A new ensemble approach based chemosensor for the reversible detection of bio-thiols and its application in live cell imaging. <i>Journal of Luminescence</i> , 2016, 175, 122-128.	3.1	14
74	POPd/TBAB co-catalyzed Suzuki cross-coupling reaction of heteroaryl chlorides/bromides with 4-fluorophenylboronic acid in water. <i>Journal of the Iranian Chemical Society</i> , 2016, 13, 637-644.	2.2	2
75	Reversible and Selective Fluorescence Detection of Histidine Using a Naphthalimide-Based Chemosensing Ensemble. <i>Chemistry - an Asian Journal</i> , 2015, 10, 2411-2418.	3.3	25
76	NBD-based fluorescent chemosensor for the selective quantification of copper and sulfide in an aqueous solution and living cells. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2918-2926.	2.8	87
77	A new fluorescent chemosensor for highly selective and sensitive detection of inorganic phosphate (Pi) in aqueous solution and living cells. <i>RSC Advances</i> , 2015, 5, 53189-53197.	3.6	33
78	A highly selective and sensitive ON-OFF fluorescence chemosensor for cysteine detection in endoplasmic reticulum. <i>Biosensors and Bioelectronics</i> , 2015, 74, 461-468.	10.1	86
79	A reversible fluorescence chemosensor for sequentially quantitative monitoring copper and sulfide in living cells. <i>Talanta</i> , 2015, 143, 294-301.	5.5	58
80	Fluorescence detection of Fe ³⁺ ions in aqueous solution and living cells based on a high selectivity and sensitivity chemosensor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 674-681.	3.9	45
81	Copper-catalyzed decarboxylative C3-acylation of free (N-H) indoles with α -oxocarboxylic acids. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 1721.	2.8	58
82	Reduced efficiency roll-off in electrophosphorescent devices by a short-living rhenium emitter with well-matched energy levels. <i>Applied Physics Letters</i> , 2010, 97, 263303.	3.3	13
83	An expeditious aqueous Suzuki-Miyaura method for the substituted aryl heterocyclics. <i>Journal of Environmental Sciences</i> , 2009, 21, S65-S68.	6.1	1