## **Zhong Cao**

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1687227/publications.pdf

Version: 2024-02-01

101543 110387 4,561 109 36 64 citations h-index g-index papers 111 111 111 3248 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Highly Selective Adsorption and Recovery of Palladium from Spent Catalyst Wastewater by 1,4,7,10-Tetraazacyclododecane-Modified Mesoporous Silica. ACS Sustainable Chemistry and Engineering, 2022, 10, 1103-1114.	6.7	18
2	An electrochemical impedimetric sensing platform based on a peptide aptamer identified by high-throughput molecular docking for sensitive l-arginine detection. Bioelectrochemistry, 2021, 137, 107634.	4.6	31
3	Aryl acyl peroxides for visible-light induced decarboxylative arylation of quinoxalin-2(1 <i>H</i> )-ones under additive-, metal catalyst-, and external photosensitizer-free and ambient conditions. Green Chemistry, 2021, 23, 374-378.	9.0	99
4	Visibleâ€Lightâ€Initiated Cascade Reaction of 2â€Isothiocyanatonaphthalenes and Amines under Additive†and External Photocatalystâ€Free and Mild Conditions. Advanced Synthesis and Catalysis, 2021, 363, 757-761.	4.3	11
5	Practical and sustainable approach for clean preparation of 5-organylselanyl uracils. Chinese Chemical Letters, 2021, 32, 475-479.	9.0	66
6	Synergistic cooperative effect of CF <sub>3</sub> SO <sub>2</sub> Na and bis(2-butoxyethyl)ether towards selective oxygenation of sulfides with molecular oxygen under visible-light irradiation. Green Chemistry, 2021, 23, 496-500.	9.0	86
7	Dual-modification of WO3-coating and Mg-doping on LiNi0.8Co0.1Mn0.1O2 cathodes for enhanced electrochemical performance at high voltage. lonics, 2021, 27, 1909-1917.	2.4	5
8	Visible-light-initiated tandem synthesis of difluoromethylated oxindoles in 2-MeTHF under additive-, metal catalyst-, external photosensitizer-free and mild conditions. Chinese Chemical Letters, 2021, 32, 1907-1910.	9.0	100
9	A solvent-assisted ESIPT fluorescent dye for Fâ^'/Ag+ sensing and high-resolution imaging of the cilia in live cells. Analytical and Bioanalytical Chemistry, 2021, 413, 6343-6353.	3.7	6
10	An <scp>Enzymeâ€Free</scp> Amperometric Sensor Based on <scp>Selfâ€Assembling Ferroceneâ€Conjugated</scp> Oligopeptide for Specific Determination of <scp><i>L</i>â€Arginine</scp> . Chinese Journal of Chemistry, 2021, 39, 2755-2762.	4.9	10
11	Sustainable electrochemical cross-dehydrogenative coupling of 4-quinolones and diorganyl diselenides. Chinese Journal of Catalysis, 2021, 42, 1445-1450.	14.0	86
12	Sensitive fluorescence and visual detection of organophosphorus pesticides with a Ru(bpy) <sub>3</sub> <sup>2+</sup> –ZIF-90–MnO <sub>2</sub> sensing platform. Analytical Methods, 2021, 13, 2981-2988.	2.7	8
13	Core-shell structure LiNi0.8Co0.1Mn0.1O2 cathode material with improved electrochemical performance at high voltage. Ionics, 2021, 27, 949-959.	2.4	7
14	Electrochemical Multicomponent Synthesis of $\langle i \rangle \hat{l} \pm \langle j \rangle$ -Ketoamides from $\langle i \rangle \hat{l} \pm \langle j \rangle$ -Oxocarboxylic Acids, Isocyanides and Water. Chinese Journal of Organic Chemistry, 2021, 41, 4712.	1.3	8
15	Mesoporous Si/C composite anode material: experiments and first-principles calculations. lonics, 2020, 26, 589-599.	2.4	6
16	Thermo-electrochemical study of co-modified Li2O-2B2O3-(LiNi0.5Co0.2Mn0.3)0.98Zr0.02O2 cathode material. Ionics, 2020, 26, 673-681.	2.4	2
17	Intrinsically ESIPT-exhibiting and enhanced emission in polymer nanoparticles as signaling for sensing nitrite. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 226, 117654.	3.9	4
18	Enhanced electrochemical properties of Ni-rich LiNi0.8Co0.1Mn0.1O2 by SnO2 coating under high cutoff voltage. lonics, 2020, 26, 2681-2688.	2.4	9

#	Article	IF	CITATIONS
19	The clean preparation of multisubstituted pyrroles under metal- and solvent-free conditions. Green Chemistry, 2020, 22, 118-122.	9.0	68
20	Selective oxidation of (hetero)sulfides with molecular oxygen under clean conditions. Green Chemistry, 2020, 22, 433-438.	9.0	102
21	Ultrasound-assisted tandem synthesis of tri- and tetra-substituted pyrrole-2-carbonitriles from alkenes, TMSCN and N,N-disubstituted formamides. Chinese Chemical Letters, 2020, 31, 3241-3244.	9.0	37
22	Molecular iodine-catalyzed multicomponent synthesis of $\hat{l}\pm$ -cyanopyrrolines with ambient air as the oxidant under neat conditions. Organic Chemistry Frontiers, 2020, 7, 4026-4030.	4.5	18
23	Research Progress on the Surface of High-Nickel Nickel–Cobalt–Manganese Ternary Cathode Materials: A Mini Review. Frontiers in Chemistry, 2020, 8, 761.	3.6	38
24	Copper( $<$ scp $>$ i $<$ /scp $>$ )-catalyzed intermolecular cyanoarylation of alkenes: convenient access to $\hat{l}_{\pm}$ -alkylated arylacetonitriles. Organic and Biomolecular Chemistry, 2020, 18, 5234-5237.	2.8	11
25	DSN/TdT recycling digestion based cyclic amplification strategy for microRNA assay. Talanta, 2020, 219, 121173.	5.5	10
26	C(sp2)–H/O–H cross-dehydrogenative coupling of quinoxalin-2(1H)-ones with alcohols under visible-light photoredox catalysis. Chinese Journal of Catalysis, 2020, 41, 1168-1173.	14.0	87
27	Visible-light-initiated malic acid-promoted cascade coupling/cyclization of aromatic amines and KSCN to 2-aminobenzothiazoles without photocatalyst. Chinese Chemical Letters, 2020, 31, 1895-1898.	9.0	98
28	Electrochemical Synthesis of $\hat{l}$ ±-Ketoamides under Catalyst-, Oxidant-, and Electrolyte-Free Conditions. Organic Letters, 2020, 22, 2206-2209.	4.6	37
29	1,2-Diethoxyethane catalyzed oxidative cleavage of gem-disubstituted aromatic alkenes to ketones under minimal solvent conditions. Chinese Chemical Letters, 2020, 31, 1868-1872.	9.0	22
30	Visible-light-induced decarboxylative acylation of quinoxalin- $2(1 < i > H < /i >)$ -ones with $\hat{1}\pm$ -oxo carboxylic acids under metal-, strong oxidant- and external photocatalyst-free conditions. Green Chemistry, 2020, 22, 1720-1725.	9.0	145
31	Sensitive and selective monitoring of the DNA damage-induced intracellular p21 protein and unraveling the role of the p21 protein in DNA repair and cell apoptosis by surface plasmon resonance. Analyst, The, 2020, 145, 3697-3704.	3.5	4
32	Effect of Zr doping and Li2O-2B2O3 layer on the structural electrochemical properties of LiNi0.5Co0.2Mn0.3O2 cathode material: experiments and first-principle calculations. Ionics, 2019, 25, 2017-2026.	2.4	16
33	Thermodynamic and thermal energy storage properties of a new medium-temperature phase change material. Journal of Thermal Analysis and Calorimetry, 2019, 135, 3171-3179.	3.6	8
34	TsCl-promoted sulfonylation of quinoline N-oxides with sodium sulfinates in water. Chinese Chemical Letters, 2019, 30, 2287-2290.	9.0	78
35	A Dualâ€Response DNA Probe for Simultaneously Monitoring Enzymatic Activity and Environmental pH Using a Nanopore. Angewandte Chemie - International Edition, 2019, 58, 14929-14934.	13.8	50
36	Visible-Light-Initiated Decarboxylative Alkylation of Quinoxalin-2(1 <i>H</i> )-ones with Phenyliodine(III) Dicarboxylates in Recyclable Ruthenium(II) Catalytic System. ACS Sustainable Chemistry and Engineering, 2019, 7, 14153-14160.	6.7	130

3

#	Article	IF	CITATIONS
37	DNA-templated copper nanoclusters obtained <i>via</i> TdT isothermal nucleic acid amplification for mercury( <scp>ii</scp> ) assay. Analytical Methods, 2019, 11, 4165-4172.	2.7	6
38	Polymer nanoparticles integrated with ESIPT modules for sensing cysteine based on modulation of their tautomeric emission. Analytical Methods, 2019, 11, 3714-3720.	2.7	4
39	The concept of dual roles design in clean organic preparation. Chinese Chemical Letters, 2019, 30, 2132-2138.	9.0	114
40	Metalâ€Free C3 Hydroxylation of Quinoxalinâ€2(1 H)â€ones in Water. Advanced Synthesis and Catalysis, 2019, 361, 5721-5726.	4.3	50
41	Solvent-dependent selective oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid under neat conditions. Chinese Chemical Letters, 2019, 30, 2304-2308.	9.0	43
42	Visible-Light-Initiated Cross-Dehydrogenative Coupling of Quinoxalin-2( $1 < i > H < / i >$ )-ones and Simple Amides with Air as an Oxidant. ACS Sustainable Chemistry and Engineering, 2019, 7, 19993-19999.	6.7	64
43	A Dualâ€Response DNA Probe for Simultaneously Monitoring Enzymatic Activity and Environmental pH Using a Nanopore. Angewandte Chemie, 2019, 131, 15071-15076.	2.0	8
44	Real-time surface plasmon resonance monitoring of site-specific phosphorylation of p53 protein and its interaction with MDM2 protein. Analyst, The, 2019, 144, 6033-6040.	3.5	11
45	Telomerase-triggered DNAzyme spiders for exponential amplified assay of cancer cells. Biosensors and Bioelectronics, 2019, 144, 111692.	10.1	21
46	A simple and effective strategy for detecting artemisinin based on oxidative cyclization of vitamin B $<$ sub $>$ 1 $<$ /sub $>$ eliciting fluorescence turn-on. Analytical Methods, 2019, 11, 88-96.	2.7	5
47	Visible-light-induced deoxygenative C2-sulfonylation of quinoline $\langle i \rangle N \langle i \rangle$ -oxides with sulfinic acids. Green Chemistry, 2019, 21, 3858-3863.	9.0	175
48	Clean preparation of S-thiocarbamates with in situ generated hydroxide in 2-methyltetrahydrofuran. Chinese Chemical Letters, 2019, 30, 2259-2262.	9.0	56
49	Highly sensitive determination of L-tyrosine in pig serum based on ultrathin CuS nanosheets composite electrode. Biosensors and Bioelectronics, 2019, 140, 111356.	10.1	32
50	Clean Oxidation of (Hetero)benzylic C <sub>sp3</sub> â€"H Bonds with Molecular Oxygen. ACS Sustainable Chemistry and Engineering, 2019, 7, 10293-10298.	6.7	49
51	Dual-channel surface plasmon resonance monitoring of intracellular levels of the p53-MDM2 complex and caspase-3 induced by MDM2 antagonist Nutlin-3. Analyst, The, 2019, 144, 3959-3966.	3.5	9
52	Sustainable routes for quantitative green selenocyanation of activated alkynes. Chinese Chemical Letters, 2019, 30, 1237-1240.	9.0	96
53	Iodine-Catalyzed Odorless Synthesis of <i>S</i> -Thiocarbamates with Sulfonyl Chlorides as a Sulfur Source. Journal of Organic Chemistry, 2019, 84, 6065-6071.	3.2	62
54	Recent advances of 1,2,3,5-tetrakis(carbazol-9-yl)-4,6-dicyanobenzene (4CzIPN) in photocatalytic transformations. Chemical Communications, 2019, 55, 5408-5419.	4.1	423

#	Article	IF	CITATIONS
55	Clean Preparation of Quinolin-2-yl Substituted Ureas in Water. ACS Sustainable Chemistry and Engineering, 2019, 7, 7193-7199.	6.7	75
56	Hybridization chain reaction based DNAzyme fluorescent sensor for <scp>l</scp> -histidine assay. Analytical Methods, 2019, 11, 2204-2210.	2.7	12
57	Metal-free C3-alkoxycarbonylation of quinoxalin-2(1H)-ones with carbazates as ecofriendly ester sources. Science China Chemistry, 2019, 62, 460-464.	8.2	110
58	Measuring Binding Constants of Cucurbituril-Based Host–Guest Interactions at the Single-Molecule Level with Nanopores. ACS Sensors, 2019, 4, 774-779.	7.8	35
59	Visible-light-promoted direct C–H/S–H cross-coupling of quinoxalin-2(1 <i>H</i> )-ones with thiols leading to 3-sulfenylated quinoxalin-2(1 <i>H</i> )-ones in air. Organic Chemistry Frontiers, 2019, 6, 3950-3955.	4.5	107
60	Sensitive surface plasmon resonance detection of methyltransferase activity and screening of its inhibitors amplified by p53 protein bound to methylation-specific ds-DNA consensus sites. Biosensors and Bioelectronics, 2019, 126, 269-274.	10.1	23
61	Thermoeletrochemical study on LiNi0.8Co0.1Mn0.1O2 with in situ modification of Li2ZrO3. lonics, 2018, 24, 3325-3335.	2.4	10
62	Highly cysteine-selective fluorescent nanoprobes based on ultrabright and directly synthesized carbon quantum dots. Analytical and Bioanalytical Chemistry, 2018, 410, 2961-2970.	3.7	28
63	Rapid and selective DNA-based detection of melamine using α-hemolysin nanopores. Analyst, The, 2018, 143, 2411-2415.	3.5	44
64	Ultrasensitive detection of thiophenol based on a water-soluble pyrenyl probe. Talanta, 2018, 185, 146-150.	5.5	20
65	Modification research of LiAlO2-coated LiNi0.8Co0.1Mn0.1O2 as a cathode material for lithium-ion battery. Ionics, 2018, 24, 91-98.	2.4	42
66	Molecular Engineering of $\hat{l}_{\pm}$ -Substituted Acrylate Ester Template for Efficient Fluorescence Probe of Hydrogen Polysulfides. Analytical Chemistry, 2018, 90, 881-887.	6.5	43
67	Energy Storage and Thermostability of Li3VO4-Coated LiNi0.8Co0.1Mn0.1O2 as Cathode Materials for Lithium Ion Batteries. Frontiers in Chemistry, 2018, 6, 546.	3.6	11
68	Intrinsically fluorescent and highly functionalized polymer nanoparticles as probes for the detection of zinc and pyrophosphate ions in rabbit serum samples. Talanta, 2018, 188, 203-209.	5.5	15
69	Synthesis of Yolk–Shell-Structured Si@C Nanocomposite Anode Material for Lithium-lon Battery. Journal of Electronic Materials, 2018, 47, 6311-6318.	2.2	19
70	Metal-free deoxygenative sulfonylation of quinoline <i>N</i> -oxides with sodium sulfinates <i>via</i> a dual radical coupling process. Organic Chemistry Frontiers, 2018, 5, 2604-2609.	4.5	135
71	Enhanced Electrochemical Properties of Polyaniline-Coated LiNi0.8Co0.1Mn0.1O2 Cathode Material for Lithium-Ion Batteries. Journal of Electronic Materials, 2018, 47, 5896-5904.	2.2	35
72	Ultrasound-promoted BrÃ,nsted acid ionic liquid-catalyzed hydrothiocyanation of activated alkynes under minimal solvent conditions. Green Chemistry, 2018, 20, 3683-3688.	9.0	203

#	Article	IF	CITATIONS
73	Programmable DNA triple-helix molecular switch in biosensing applications: from in homogenous solutions to in living cells. Chemical Communications, 2017, 53, 2507-2510.	4.1	25
74	Sensitive Determination of Toxic Clenbuterol in Pig Meat and Pig Liver Based on a Carbon Nanopolymer Composite. Food Analytical Methods, 2017, 10, 2252-2261.	2.6	24
75	Preparation, morphology and thermal properties of microencapsulated palmitic acid phase change material with polyaniline shells. Journal of Thermal Analysis and Calorimetry, 2017, 129, 1583-1592.	3.6	37
76	Thermal properties characterization of two promising phase change material candidates. Journal of Thermal Analysis and Calorimetry, 2017, 129, 189-199.	3.6	3
77	A Target-Lighted dsDNA-Indicator for High-Performance Monitoring of Mercury Pollution and Its Antagonists Screening. Environmental Science & Environme	10.0	15
78	A base-free, ultrasound accelerated one-pot synthesis of 2-sulfonylquinolines in water. Green Chemistry, 2017, 19, 5642-5646.	9.0	153
79	Direct Detection of Nucleic Acid with Minimizing Background and Improving Sensitivity Based on a Conformation-Discriminating Indicator. ACS Sensors, 2017, 2, 1198-1204.	7.8	14
80	Effects of some nucleating agents on the supercooling of erythritol to be applied as phase change material. Journal of Thermal Analysis and Calorimetry, 2017, 129, 1291-1299.	3.6	35
81	Simple and rapid mercury ion selective electrode based on 1-undecanethiol assembled Au substrate and its recognition mechanism. Materials Science and Engineering C, 2017, 72, 26-33.	7.3	13
82	Selective and sensitive detection of picric acid based on a water-soluble fluorescent probe. RSC Advances, 2016, 6, 38328-38331.	3.6	35
83	Approach Based on Polyelectrolyte-Induced Nanoassemblies for Enhancing Sensitivity of Pyrenyl Probes. Analytical Chemistry, 2016, 88, 10605-10610.	6.5	17
84	In situ formation of fluorescent copper nanoparticles for ultrafast zero-background Cu 2+ detection and its toxicides screening. Biosensors and Bioelectronics, 2016, 78, 471-476.	10.1	87
85	Estimation of temperature distribution of LiFePO4 lithium ion battery during charge–discharge process. lonics, 2016, 22, 1517-1525.	2.4	8
86	A new group contribution-based method for estimation of flash point temperature of alkanes. Journal of Central South University, 2015, 22, 30-36.	3.0	4
87	Determination of trace nitrite in pickled food with a nano-composite electrode by electrodepositing ZnO and Pt nanoparticles on MWCNTs substrate. LWT - Food Science and Technology, 2015, 64, 663-670.	5.2	43
88	Cleaved DNAzyme substrate induced enzymatic cascade for the exponential amplified analysis of l-histidine. Talanta, 2015, 132, 809-813.	5.5	7
89	CaCl2·6H2O/Expanded graphite composite as form-stable phase change materials for thermal energy storage. Journal of Thermal Analysis and Calorimetry, 2014, 115, 111-117.	3.6	116
90	Preparation and thermal properties of palmitic acid/polyaniline/copper nanowires form-stable phase change materials. Journal of Thermal Analysis and Calorimetry, 2014, 115, 1133-1141.	3.6	31

#	Article	IF	Citations
91	Enzymatic cascade based fluorescent DNAzyme machines for the ultrasensitive detection of Cu(II) ions. Biosensors and Bioelectronics, 2014, 60, 112-117.	10.1	31
92	Improved dehydrogenation/rehydrogenation performance of LiBH4 by doping mesoporous Fe2O3 or/and TiF3. Journal of Thermal Analysis and Calorimetry, 2013, 112, 1407-1414.	3.6	8
93	Molecule counting with alkanethiol and DNA immobilized on gold microplates for extended gate FET. Materials Science and Engineering C, 2013, 33, 1481-1490.	7.3	3
94	Heat capacities and thermodynamic properties of Ni9(btz)12(DMA)6(NO3)6. Journal of Thermal Analysis and Calorimetry, 2013, 111, 1603-1608.	3.6	2
95	Heat capacities and thermodynamic properties of M(HBTC)(4,4′-bipy)·3DMF (MÂ=ÂNi and Co). Journal of Thermal Analysis and Calorimetry, 2012, 110, 949-954.	3.6	10
96	A Novel Fluorescent Probe for Copper Ions Based on Polymer-modified CdSe/CdS Core/Shell Quantum Dots. Analytical Sciences, 2011, 27, 643-647.	1.6	26
97	Heat capacities and thermodynamic properties of MgNDC. Journal of Thermal Analysis and Calorimetry, 2011, 103, 365-372.	3.6	14
98	Synthesize, crystal structure, heat capacities and thermodynamic properties of a potential enantioselective catalyst. Journal of Thermal Analysis and Calorimetry, 2011, 105, 961-968.	3.6	9
99	Synthesis and Crystal Structure of [Ni(L)(Phen)(H2O)]·3.75H2O. Journal of Chemical Crystallography, 2010, 40, 761-764.	1.1	6
100	Preparation of S-Containing Aminophosphine and Phosphoramidite Ligands and Their Applications in Enantioselective C–C Bond Forming Reactions. Catalysis Letters, 2010, 136, 243-248.	2.6	10
101	Heat capacities and thermodynamic properties of MgBTC. Journal of Thermal Analysis and Calorimetry, 2010, 101, 365-370.	3.6	16
102	Heat capacities and thermodynamic properties of one manganese-based MOFs. Journal of Thermal Analysis and Calorimetry, 2010, 102, 1161-1166.	3.6	13
103	Research on alternative teaching means for culture introduction. , 2010, , .		0
104	Preliminary exploration on bilingual instruction mode and orientation based on internationalization. , 2010, , .		0
105	Determination of trace sodium in water from high-parameter power plant with fluorescent spectrometry. , 2010, , .		0
106	Preliminary Recognition of c-Myc Gene Protein Using an Optical Biosensor with Gold Colloid Nanoparticles Based on Localized Surface Plasmon Resonance. Analytical Letters, 2009, 42, 2820-2837.	1.8	9
107	Pyridyl derivatives provide new pathways for labeling protein with fac-[188Re(CO)3(H2O)3]+. Journal of Radioanalytical and Nuclear Chemistry, 2009, 281, 493-499.	1.5	14
108	Novel fluorescence sensor based on covalent immobilization of 3-amino-9-ethylcarbazole via electrostatically assembled gold nanoparticle layer. Central South University, 2009, 16, 212-217.	0.5	2

#	Article	IF	CITATIONS
109	Cyanidin-horseradish peroxidase-hydroperoxide reaction system and its application in enzymelinked immunosensing assays. Science in China Series B: Chemistry, 2009, 52, 1142-1147.	0.8	2