

Zhenlu Shen

List of Publications by Year in descending order

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279798

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1706
citing authors

#	ARTICLE	IF	CITATIONS
1	TEMPO-catalyzed tert-Butyl Nitrite: An Efficient Catalytic System for Aerobic Oxidation of Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 89-92.	4.3	140
2	Efficient NO Equivalent for Activation of Molecular Oxygen and Its Applications in Transition-Metal-Free Catalytic Aerobic Alcohol Oxidation. <i>Journal of Organic Chemistry</i> , 2007, 72, 4288-4291.	3.2	110
3	2,3-Dichloro-5,6-dicyano-1,4-benzoquinone (DDQ)/tert-Butyl Nitrite/Oxygen: A Versatile Catalytic Oxidation System. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 3031-3038.	4.3	97
4	Metal-free, iodine-catalyzed regioselective sulfenylation of indoles with thiols. <i>Tetrahedron Letters</i> , 2016, 57, 1912-1916.	1.4	69
5	Pd-Catalyzed reductive heck reaction of olefins with aryl bromides for Csp ² -Csp ³ bond formation. <i>Chemical Communications</i> , 2018, 54, 5752-5755.	4.1	52
6	Iridium-Catalyzed Enantioselective C(sp ³)-H Borylation of Cyclobutanes. <i>Chinese Journal of Chemistry</i> , 2020, 38, 1533-1537.	4.9	48
7	A Mild TEMPO-Catalyzed Aerobic Oxidative Conversion of Aldehydes into Nitriles. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 1157-1163.	4.3	46
8	Bidentate Geometry-Constrained Iminopyridyl Ligands in Cobalt Catalysis: Highly Markovnikov-Selective Hydrosilylation of Alkynes. <i>Organic Letters</i> , 2019, 21, 5767-5772.	4.6	45
9	Design and synthesis of new chiral pyridine-phosphite ligands for the copper-catalyzed enantioselective conjugate addition of diethylzinc to acyclic enones. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 1425-1432.	1.8	44
10	ABNO-Catalyzed Aerobic Oxidative Synthesis of 2-Substituted 4-Hydroxy-3,1-Benzoxazines and Quinazolines. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 3335-3342.	2.4	43
11	Near-infrared carbon dots-based fluorescence turn on aptasensor for determination of carcinoembryonic antigen in pleural effusion. <i>Analytica Chimica Acta</i> , 2019, 1068, 52-59.	5.4	43
12	DDQ/tert-Butyl nitrite-catalyzed aerobic oxidation of diarylmethane sp ³ C-H bonds. <i>Tetrahedron</i> , 2015, 71, 6733-6739.	1.9	39
13	Aerobic oxidative deprotection of benzyl-type ethers under atmospheric pressure catalyzed by 2,3-dichloro-5,6-dicyano-1,4-benzoquinone (DDQ)/tert-butyl nitrite. <i>Tetrahedron Letters</i> , 2013, 54, 1579-1583.	1.4	38
14	Electrochemical synthesis of nitriles from aldehydes using TEMPO as a mediator. <i>Electrochemistry Communications</i> , 2016, 64, 51-55.	4.7	38
15	Symbiotic Catalysis Relay: Molecular Oxygen Activation Catalyzed by Multiple Small Molecules at Ambient Temperature and its Mechanism. <i>ChemCatChem</i> , 2012, 4, 76-80.	3.7	33
16	N-Heterocyclic carbene copper-catalyzed direct alkylation of terminal alkynes with non-activated alkyl triflates. <i>Chemical Communications</i> , 2017, 53, 4124-4127.	4.1	33
17	Electrocatalytic synthesis of nitriles from aldehydes with ammonium acetate as the nitrogen source. <i>Electrochimica Acta</i> , 2017, 226, 53-59.	5.2	32
18	A practical iodine-catalyzed oxidative conversion of aldehydes to nitriles. <i>RSC Advances</i> , 2017, 7, 1484-1489.	3.6	30

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19	Ferric nitrate-catalyzed aerobic oxidation of benzylic sp ³ C-H bonds of ethers and alkylarenes. <i>Tetrahedron</i> , 2017, 73, 3002-3009.	1.9	28
20	Electrochemical Sulfenylation of Indoles with Disulfides Mediated by Potassium Iodide. <i>Journal of the Electrochemical Society</i> , 2018, 165, G67-G74.	2.9	27
21	Switching the Chemoselectivity in the Amination of 4-Chloroquinazolines with Aminopyrazoles. <i>Organic Letters</i> , 2010, 12, 552-555.	4.6	26
22	Double Electrophilic Addition of Allene and Dicarboxylic Esters for the Construction of Polysubstituted Furans by KI/tert-Butyl Hydroperoxide (TBHP)-Promoted Oxidative Annulation. <i>Chemistry - A European Journal</i> , 2016, 22, 9348-9355.	3.3	26
23	Transformation of ethers into aldehydes or ketones: a catalytic aerobic deprotection/oxidation pathway. <i>Tetrahedron Letters</i> , 2015, 56, 2768-2772.	1.4	24
24	Efficient Catalyst for Both Suzuki and Heck Cross-Coupling Reactions: Synthesis and Catalytic Behaviour of Geometry-Constrained Iminopyridylpalladium Chlorides. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 2642-2651.	4.3	24
25	Metal-Free Aerobic Oxidative C-H Coupling of C(sp ³)-H with Carboxylic Acids Catalyzed by DDQ and tert-Butyl Nitrite. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 5650-5655.	2.4	24
26	Gold nanoclusters-poly(9,9-dioctylfluorenyl-2,7-diyl)@zeolitic imidazolate framework-8 (ZIF-8) nanohybrid based probe for ratiometric analysis of dopamine. <i>Analytica Chimica Acta</i> , 2020, 1098, 102-109.	5.4	22
27	Synthesis of Aryl Thiocyanates via Copper-Catalyzed Aerobic Oxidative Cross-Coupling between Arylboronic Acids and KSCN. <i>Synlett</i> , 2013, 24, 1443-1447.	1.8	21
28	One-Pot Electrochemical Oxidation of Alcohols to Nitriles Mediated by TEMPO. <i>Journal of the Electrochemical Society</i> , 2017, 164, G54-G58.	2.9	21
29	I ₂ /Fe(NO ₃) ₃ ·9H ₂ O-catalyzed oxidative synthesis of aryl carboxylic acids from aryl alkyl ketones and secondary benzylic alcohols. <i>Tetrahedron Letters</i> , 2018, 59, 4349-4354.	1.4	20
30	Nickel-catalyzed C ³ -alkylation of indoles with alcohols via a borrowing hydrogen strategy. <i>New Journal of Chemistry</i> , 2021, 45, 10057-10062.	2.8	20
31	Dual-colored carbon dots-based ratiometric fluorescent sensor for high-precision detection of alkaline phosphatase activity. <i>Talanta</i> , 2020, 208, 120460.	5.5	19
32	Visible-Light-Induced Arene C(sp ²)-H Lactonization Promoted by DDQ and tert-Butyl Nitrite. <i>Synlett</i> , 2020, 31, 261-266.	1.8	19
33	Visible-Light-Induced Aerobic Oxidation of Benzylic C(sp ³)-H of Alkylarenes Promoted by DDQ, tert-Butyl Nitrite, and Acetic Acid. <i>Synlett</i> , 2019, 30, 218-224.	1.8	18
34	An efficient HCCP-mediated direct amination of quinazolin-4(3H)-ones. <i>Tetrahedron</i> , 2011, 67, 1665-1672.	1.9	16
35	Aerobic oxidation of secondary alcohols in water with ABNO/tert-butyl nitrite/KPF ₆ catalytic system. <i>Tetrahedron Letters</i> , 2017, 58, 652-657.	1.4	16
36	Highly bulky and stable geometry-constrained iminopyridines: Synthesis, structure and application in Pd-catalyzed Suzuki coupling of aryl chlorides. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 213-221.	2.2	15

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37	Unsymmetrical CNN-palladacycles with geometry-constrained iminopyridyl ligands: an efficient precatalyst in Suzuki coupling for accessing 1,1-diaryllkanes from secondary benzylic bromides. <i>Organic Chemistry Frontiers</i> , 2018, 5, 2484-2491.	4.5	15
38	Ligand-free Palladium-Catalyzed Carbonylative Suzuki Coupling of Aryl Iodides in Aqueous CH ₃ CN with Substoichiometric Amount of Mo(CO) ₆ as CO Source. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2117-2123.	4.3	13
39	Preparation and electrochemical performance of TEMPO-modified polyterthiophene electrode obtained by electropolymerization. <i>Electrochemistry Communications</i> , 2020, 110, 106623.	4.7	13
40	Selective oxidation of benzyl alcohol on poly(4-(3-(pyrrol-1-yl)propionamido)-2,2,6,6-tetramethylpiperidin-1-yloxy) electrode. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2291-2297.	2.5	12
41	Electropolymerization and Electrocatalytic Activity of Poly(4-thienylacetyl-amino-2,2,6,6-tetramethylpiperidinyl-1-yloxy)/(2,2'-bithiophene) Copolymer. <i>Journal of the Electrochemical Society</i> , 2015, 162, H251-H255.	2.9	12
42	Synthesis of a heterogeneous Cu(OAc) ₂ -anchored SBA-15 catalyst and its application in the CuAAC reaction. <i>New Journal of Chemistry</i> , 2018, 42, 1612-1616.	2.8	12
43	Synthesis of 3-Sulfenylindoles from Indoles and Various Sulfenylation Agents through Aerobic Oxidative C-S Bond Coupling. <i>Synlett</i> , 2018, 29, 1914-1920.	1.8	12
44	Geometry-Constrained Iminopyridyl Palladium-Catalyzed Hydroarylation of Alkynes to Prepare Tri-substituted Alkenes Using Alcohol as Reductant. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 3038-3043.	4.3	12
45	Electrochemical Performance of ABNO for Oxidation of Secondary Alcohols in Acetonitrile Solution. <i>Molecules</i> , 2019, 24, 100.	3.8	12
46	Catalyst- and Oxidant-free Electrochemical Halogenation Reactions of 2-Hydroxyindazoles with NaX (X=Cl, Br). <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	2.4	12
47	Efficient Electrooxidation of Alcohols Using TEMPO-Modified Polyaniline Electrode Prepared by Electrochemical Polymerization. <i>Journal of the Electrochemical Society</i> , 2016, 163, H321-H326.	2.9	11
48	An efficient Pd-NHC catalyst system in situ generated from Na ₂ PdCl ₄ and PEG-functionalized imidazolium salts for Mizoroki-Heck reactions in water. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 1735-1744.	2.2	11
49	Copper-catalyzed direct couplings of terminal alkynes with primary and secondary benzyl bromides. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1983-1988.	4.5	11
50	Determination of ketamine, methamphetamine and 3,4-methylenedioxymethamphetamine in human hair by flash evaporation-gas chromatography/mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1153, 122275.	2.3	10
51	2,3-Dichloro-5,6-dicyano-1,4-benzoquinone-catalyzed aerobic oxidation reactions via multistep electron transfers with iron(II) phthalocyanine as an electron-transfer mediator. <i>RSC Advances</i> , 2016, 6, 51908-51913.	3.6	9
52	Oxidative C-C Bond Cleavage for the Synthesis of Aryl Carboxylic Acids from Aryl Alkyl Ketones. <i>Synlett</i> , 2018, 29, 1505-1509.	1.8	8
53	3-BocNH-ABNO-catalyzed aerobic oxidation of alcohol at room temperature and atmospheric pressure. <i>Tetrahedron Letters</i> , 2019, 60, 150994.	1.4	8
54	An efficient domino strategy for synthesis of novel spirocycloalkane fused pyrazolo[3,4-b]pyridine derivatives. <i>Tetrahedron</i> , 2020, 76, 131727.	1.9	8

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55	FeCl ₂ -Catalyzed Direct C ₂ -Benzoylation of Benzofurans with Diarylmethanes via Cross Dehydrogenative Coupling. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 549-553.	2.7	8
56	SBA-15 Supported 1-Methyl-2-azaadamantane <i>N</i> -Oxyl (1-Me-AZADO) as Recyclable Catalyst for Oxidation of Alcohol. <i>Organic Letters</i> , 2021, 23, 3928-3932.	4.6	8
57	Trichloroisocyanuric Acid-Promoted Synthesis of Arylselenides and Aryltellurides from Diorganyl Dichalcogenides and Arylboronic Acids at Ambient Temperature. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 3577-3584.	4.3	8
58	Ni-catalyzed reductive decyanation of nitriles with ethanol as the reductant. <i>Chemical Communications</i> , 2021, 57, 2273-2276.	4.1	8
59	Imparting antibacterial adhesion property to anion exchange membrane by constructing negatively charged functional layer. <i>Separation and Purification Technology</i> , 2022, 288, 120628.	7.9	8
60	Synthesis of α -Hydroxy Esters by Glyoxylate-Ene Reaction in Lewis Acid Chloroaluminate Ionic Liquids. <i>Chinese Journal of Catalysis</i> , 2006, 27, 197-199.	14.0	7
61	Bidentate geometry-constrained iminopyridyl nickel-catalyzed synthesis of amines or imines via borrowing hydrogen or dehydrogenative condensation. <i>Tetrahedron Letters</i> , 2020, 61, 152604.	1.4	7
62	Trichloroisocyanuric acid-promoted thiolation of phosphites by thiols. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2021, 196, 19-27.	1.6	7
63	Preparation of poly(carbazole-TEMPO) electrode and its electrochemical performance. <i>Journal of Electroanalytical Chemistry</i> , 2021, 894, 115352.	3.8	7
64	TBAF-Catalyzed Tandem Synthesis of Triazolo[4,5-c]quinolines at Ambient Temperature. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6805-6812.	2.4	6
65	Tandem Synthesis of 2-Carboxybenzofurans <i>via</i> Sequential Cu-Catalyzed C=O Coupling and Mo(CO) ₆ -Mediated Carbonylation Reactions. <i>Journal of Organic Chemistry</i> , 2020, 85, 11490-11500.	3.2	6
66	Regio- and stereoselective cobalt-catalyzed hydrosilylation of 1,3-diyne with primary and secondary silanes. <i>Organic Chemistry Frontiers</i> , 2021, 8, 6317-6322.	4.5	6
67	Hexachlorocyclotriphosphazene (HCCP)-Mediated Direct Formation of Thioethers and Ethers from Quinazolin-4(3H)-ones. <i>Molecules</i> , 2013, 18, 5580-5593.	3.8	5
68	Electrochemical access to aryl sulfides from aryl thiols and electron-rich arenes with the potassium iodide as a mediator. <i>Electrochimica Acta</i> , 2020, 331, 135371.	5.2	5
69	A chromatography-free and aqueous waste-free process for thioamide preparation with Lawesson's reagent. <i>Beilstein Journal of Organic Chemistry</i> , 2021, 17, 805-812.	2.2	5
70	Nickel-Catalyzed Amination of Aryl Nitriles for Accessing Diarylamines through C [≡] CN Bond Activation. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 4708.	4.3	5
71	Large-Scale Synthesis of 2-Chlorotetrahydroquinoline and 2-Chlorotetrahydroquinolin-8-one. <i>Synthesis</i> , 2020, 52, 3675-3683.	2.3	4
72	Electrochemically driven synthesis of phosphorothioates from trialkyl phosphites and aryl thiols. <i>Electrochimica Acta</i> , 2021, 389, 138748.	5.2	4

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73	Ligand-free iridium-catalyzed regioselective C-H borylation of indoles. RSC Advances, 2021, 11, 5487-5490.	3.6	3
74	Electrochemical Sulfenylation of 4-Hydroxycoumarins with Aryl Thiols Catalyzed by Potassium Iodide. Journal of the Electrochemical Society, 2021, 168, 025504.	2.9	3
75	An Efficient Strategy for the Synthesis of Naphtho[2,3-b][1,6]naphthyridines Promoted by Acetic Acid. Synlett, 0, 32, .	1.8	3
76	Visible-light-induced direct C-N coupling of benzofurans and thiophenes with diarylsulfonimides promoted by DDQ and TBN. Tetrahedron, 2022, , 132853.	1.9	3
77	Improved Synthetic Process of Dimethyl 4-Oxo-4H-pyran-3,5-dicarboxylate. Organic Process Research and Development, 2019, 23, 2439-2444.	2.7	2
78	Simple and efficient one-pot multi-step strategy for the synthesis of 2-substituted (1,2,5-triarylpyrrolo[3,2-c]pyridin-3-yl)-N-arylacamide derivatives in water. Organic and Biomolecular Chemistry, 2021, 19, 2526-2532.	2.8	2
79	Ultraviolet-light-induced aerobic oxidation of benzylic C(sp ³)-H of alkylarenes under catalyst- and additive-free conditions. Tetrahedron, 2021, 82, 131947.	1.9	2
80	Solid acid-catalyzed one-pot multi-step cascade reaction: Multicomponent synthesis of indol-3-yl acetates and indol-3-yl acetamides in water. Tetrahedron, 2022, 117-118, 132839.	1.9	2
81	Heterogeneous Catalysis for Oxidation of Alcohol via 1-Methyl-2-azaadamantane <i>N</i> -oxyl Immobilized on Magnetic Polystyrene Nanosphere. ChemistrySelect, 2022, 7, .	1.5	1
82	Synthesis of Nano-Cr/Mn Composite Metal Oxides-SBA-15 Material and Its Catalytic Performance in Aerobic Oxidations of Benzyl Alcohols. ChemistrySelect, 2021, 6, 10542-10547.	1.5	0
83	A facile three-component catalyst-free strategy: Synthesis of indeno[1,2-b][1,6]naphthyridine-1,10(2H)-dione derivatives in water. Asian Journal of Organic Chemistry, 0, , .	2.7	0
84	Selective oxidation of biomass-based 5-hydroxymethylfurfural to 2,5-diformylfuran catalyzed by multicomponent molybdenum based catalyst. Journal of Chemical Technology and Biotechnology, 0, , .	3.2	0