

# Lei Zhu

## List of Publications by Year in descending order

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72  
papers

2,786  
citations

159585

30  
h-index

189892

50  
g-index

74  
all docs

74  
docs citations

74  
times ranked

2736  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid screening for acetylcholinesterase inhibitors in <i>Selaginella doederleinii</i> Hieron by using functionalized magnetic Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Talanta</i> , 2022, 243, 123284.	5.5	7
2	Palladium-Catalyzed Intramolecular Diarylation of 1,3-Diketone in Total Synthesis of (±)-Spiroaxillarone A. <i>Organic Letters</i> , 2022, 24, 1491-1495.	4.6	6
3	Regio- and Enantioselective Hydroalkylations of Unactivated Olefins Enabled by Nickel Catalysis: Reaction Development and Mechanistic Insights. <i>ACS Catalysis</i> , 2022, 12, 5795-5805.	11.2	31
4	Highly Enantioselective Synthesis of [1,2,4]Triazino[5,4- <i>a</i> ]isoquinoline Derivatives via (3 + 3) Cycloaddition Reactions of Diazo Compounds and Isoquinolinium Methylides. <i>Organic Letters</i> , 2022, 24, 3766-3771.	4.6	7
5	Mechanistic insights into the rhodium-copper cascade catalyzed dual C-H annulation of indoles. <i>Organic Chemistry Frontiers</i> , 2021, 8, 1739-1746.	4.5	8
6	Combining palladium and ammonium halide catalysts for Morita-Baylis-Hillman carbonates of methyl vinyl ketone: from 1,4-carbodipoles to ion pairs. <i>Chemical Science</i> , 2021, 12, 11399-11405.	7.4	20
7	How Solvents Control the Chemoselectivity in Rh-Catalyzed Defluorinated [4 + 1] Annulation. <i>Organic Letters</i> , 2021, 23, 1489-1494.	4.6	10
8	Synergistic Dinuclear Rhodium Induced Rhodium-Walking Enabling Alkene Terminal Arylation: A Theoretical Study. <i>ACS Catalysis</i> , 2021, 11, 3975-3987.	11.2	11
9	Ultrasonic-Assisted Ionic Liquid Extraction of Four Biflavonoids from <i>Ginkgo biloba</i> L. <i>ChemistrySelect</i> , 2021, 6, 3297-3307.	1.5	2
10	Homogenate-Ultrasound-Assisted Ionic Liquid Extraction of Total Flavonoids from <i>Selaginella involucrella</i> : Process Optimization, Composition Identification, and Antioxidant Activity. <i>ACS Omega</i> , 2021, 6, 14327-14340.	3.5	8
11	Visible-Light-Driven Anti-Markovnikov Hydrocarboxylation of Acrylates and Styrenes with CO <sub>2</sub> . <i>CCS Chemistry</i> , 2021, 3, 1746-1756.	7.8	70
12	Acrylamide impairs the developmental potential of germinal vesicle oocytes by inducing mitochondrial dysfunction and autophagy/apoptosis in mice. <i>Human and Experimental Toxicology</i> , 2021, 40, S370-S380.	2.2	5
13	Palladium-Catalyzed Modular and Enantioselective <i>cis</i> -Difunctionalization of 1,3-Enynes with Imines and Boronic Reagents. <i>Journal of the American Chemical Society</i> , 2021, 143, 17989-17994.	13.7	37
14	Cardioprotective effects of Amentoflavone by suppression of apoptosis and inflammation on an in vitro and vivo model of myocardial ischemia-reperfusion injury. <i>International Immunopharmacology</i> , 2021, 101, 108296.	3.8	11
15	Nucleophilicity versus Brønsted Basicity Controlled Chemoselectivity: Mechanistic Insight into Silver- or Scandium-Catalyzed Diazo Functionalization. <i>ACS Catalysis</i> , 2020, 10, 1256-1263.	11.2	31
16	Īf-Bond Migration Assisted Decarboxylative Activation of Vinylene Carbonate in Rh-Catalyzed 4 + 2 Annulation: A Theoretical Study. <i>Organometallics</i> , 2020, 39, 2813-2819.	2.3	19
17	Visible-Light Photoredox-Catalyzed Remote Difunctionalizing Carboxylation of Unactivated Alkenes with CO <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21121-21128.	13.8	102
18	e5NT inhibitor protects acute restraint stress-induced depression by regulating nucleoside release in mice. <i>Journal of Pharmacy and Pharmacology</i> , 2020, 72, 1556-1563.	2.4	0

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19	Arctigenin inhibits proliferation of ER-positive breast cancer cells through cell cycle arrest mediated by GSK3-dependent cyclin D1 degradation. <i>Life Sciences</i> , 2020, 256, 117983.	4.3	12
20	Kinetically Controlled Radical Addition/Elimination Cascade: From Alkynyl Aziridine to Fluorinated Allenes. <i>Organic Letters</i> , 2020, 22, 2419-2424.	4.6	16
21	Protecting-Group-Free Total Syntheses of (±)-Norascyrones A and B. <i>Organic Letters</i> , 2020, 22, 2517-2521.	4.6	13
22	Layered Chirality Relay Model in Rh(I)-Mediated Enantioselective C–Si Bond Activation: A Theoretical Study. <i>Organic Letters</i> , 2020, 22, 2124-2128.	4.6	23
23	Highly Selective and Catalytic Generation of Acyclic Quaternary Carbon Stereocenters via Functionalization of 1,3-Dienes with CO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2019, 141, 18825-18835.	13.7	104
24	Oxidative Addition Promoted C–C Bond Cleavage in Rh-Mediated Cyclopropanone Activation: A DFT Study. <i>ACS Catalysis</i> , 2019, 9, 10876-10886.	11.2	40
25	Unmasking the Ligand Effect in Manganese-Catalyzed Hydrogenation: Mechanistic Insight and Catalytic Application. <i>Journal of the American Chemical Society</i> , 2019, 141, 17337-17349.	13.7	102
26	Formal Asymmetric Cycloaddition of Activated $\hat{1}\pm, \hat{1}^2$ -Unsaturated Ketones with $\hat{1}\pm$ -Diazomethylphosphonate Mediated by a Chiral Silver SPINOL Phosphate Catalyst. <i>Organic Letters</i> , 2019, 21, 593-597.	4.6	22
27	Antiobesity, Regulation of Lipid Metabolism, and Attenuation of Liver Oxidative Stress Effects of Hydroxy- <i>1</i> -sanshool Isolated from <i>Zanthoxylum bungeanum</i> on High-Fat Diet-Induced Hyperlipidemic Rats. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-13.	4.0	43
28	Mechanistic Insight into Palladium-Catalyzed Carbocyclization-Functionalization of Bisallene: A Computational Study. <i>ChemCatChem</i> , 2019, 11, 1228-1237.	3.7	20
29	An unusual [4 + 2] fusion strategy to forge meso-N/O-heteroarene-fused (quinoidal) porphyrins with intense near-infrared Q-bands. <i>Chemical Science</i> , 2019, 10, 7274-7280.	7.4	20
30	Theoretical prediction on the reactivity of the Co-mediated intramolecular Pauson-Khand reaction for constructing bicyclo-skeletons in natural products. <i>Chinese Chemical Letters</i> , 2019, 30, 889-894.	9.0	13
31	Theoretical Study of the Addition of Cu-Carbenes to Acetylenes to Form Chiral Allenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 5772-5780.	13.7	35
32	The Third-Generation EGFR Inhibitor, Osimertinib, Promotes c-FLIP Degradation, Enhancing Apoptosis Including TRAIL-Induced Apoptosis in NSCLC Cells with Activating EGFR Mutations. <i>Translational Oncology</i> , 2019, 12, 705-713.	3.7	20
33	Theoretical study of FMO adjusted C-H cleavage and oxidative addition in nickel catalysed C-H arylation. <i>Communications Chemistry</i> , 2019, 2, .	4.5	12
34	Asymmetric Propargylic Radical Cyanation Enabled by Dual Organophotoredox and Copper Catalysis. <i>Journal of the American Chemical Society</i> , 2019, 141, 6167-6172.	13.7	174
35	Acyl radical to rhodacycle addition and cyclization relay to access butterfly flavylum fluorophores. <i>Nature Communications</i> , 2019, 10, 5664.	12.8	9
36	Well-Designed Phosphine-Urea Ligand for Highly Diastereo- and Enantioselective 1,3-Dipolar Cycloaddition of Methacrylonitrile: A Combined Experimental and Theoretical Study. <i>Journal of the American Chemical Society</i> , 2019, 141, 961-971.	13.7	70

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37	Ruthenium(II)-Catalyzed C-H Difluoromethylation of Ketoximes: Tuning the Regioselectivity from the <i>meta</i> to the <i>para</i> Position. <i>Angewandte Chemie</i> , 2018, 130, 1291-1295.	2.0	26
38	Ruthenium-catalyzed umpolung carboxylation of hydrazones with CO <sub>2</sub> . <i>Chemical Science</i> , 2018, 9, 4873-4878.	7.4	62
39	Ruthenium(II)-enabled <i>para</i> -selective C-H difluoromethylation of anilides and their derivatives. <i>Nature Communications</i> , 2018, 9, 1189.	12.8	104
40	Theoretical insight into phosphoric acid-catalyzed asymmetric conjugate addition of indolizines to $\alpha,\beta$ -unsaturated ketones. <i>Chinese Chemical Letters</i> , 2018, 29, 1237-1241.	9.0	26
41	Insights into disilylation and distannation: sequence influence and ligand/steric effects on Pd-catalyzed difunctionalization of carbenes. <i>Dalton Transactions</i> , 2018, 47, 1819-1826.	3.3	21
42	Ruthenium(II)-Catalyzed C-H Difluoromethylation of Ketoximes: Tuning the Regioselectivity from the <i>meta</i> to the <i>para</i> Position. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1277-1281.	13.8	100
43	The mechanism of copper-catalyzed oxytrifluoromethylation of allylamines with CO <sub>2</sub> : a computational study. <i>Organic Chemistry Frontiers</i> , 2018, 5, 633-639.	4.5	46
44	Mechanistic Insights into Manganese (I)-Catalyzed Chemoselective Hydroarylations of Alkynes: A Theoretical Study. <i>ChemCatChem</i> , 2018, 10, 5280-5286.	3.7	12
45	Mechanistic view of Ru-catalyzed C-H bond activation and functionalization: computational advances. <i>Chemical Society Reviews</i> , 2018, 47, 7552-7576.	38.1	212
46	Annulation cascade of aryl nitriles with alkynes to stable delocalized PAH carbocations <i>via</i> intramolecular rhodium migration. <i>Chemical Science</i> , 2018, 9, 5488-5493.	7.4	34
47	Experimental and Theoretical Studies on Ru(II)-Catalyzed Oxidative C-H/C-H Coupling of Phenols with Aromatic Amides Using Air as Oxidant: Scope, Synthetic Applications, and Mechanistic Insights. <i>ACS Catalysis</i> , 2018, 8, 8324-8335.	11.2	34
48	<i>Rhizopus nigricans</i> polysaccharide activated macrophages and suppressed tumor growth in CT26 tumor-bearing mice. <i>Carbohydrate Polymers</i> , 2018, 198, 302-312.	10.2	18
49	Efficient Approach for the Extraction and Identification of Red Pigment from <i>Zanthoxylum bungeanum</i> Maxim and Its Antioxidant Activity. <i>Molecules</i> , 2018, 23, 1109.	3.8	22
50	Catalytic Lactonization of Unactivated Aryl C-H Bonds with CO <sub>2</sub> : Experimental and Computational Investigation. <i>Organic Letters</i> , 2018, 20, 3776-3779.	4.6	64
51	Thiolate-palladium(IV) or sulfonium-palladate(0)? A theoretical study on the mechanism of palladium-catalyzed C-S bond formation reactions. <i>Organic Chemistry Frontiers</i> , 2017, 4, 943-950.	4.5	13
52	Enantioselective alkylation of N-sulfonyl $\alpha$ -ketiminoesters via a Friedel-Crafts alkylation strategy. <i>Chemical Communications</i> , 2017, 53, 5890-5893.	4.1	20
53	Bioinspired Total Synthesis of Homodimericin A. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7890-7894.	13.8	25
54	Ir(III)/Ir(V) or Ir(I)/Ir(III) Catalytic Cycle? Steric-Effect-Controlled Mechanism for the <i>para</i> -C-H Borylation of Arenes. <i>Organometallics</i> , 2017, 36, 2107-2115.	2.3	38

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55	Bioinspired Asymmetric Synthesis of Hispidanin...A. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5844-5848.	13.8	24
56	Stabilization of Two Radicals with One Metal: A Stepwise Coupling Model for Copper-Catalyzed Radical-Radical Cross-Coupling. <i>Scientific Reports</i> , 2017, 7, 43579.	3.3	35
57	Highly enantioselective nitro-Mannich reaction of ketimines under phase-transfer catalysis. <i>Organic Chemistry Frontiers</i> , 2017, 4, 1266-1271.	4.5	33
58	Rhodium/Copper Cocatalyzed Highly trans-Selective 1,2-Diheteroarylation of Alkynes with Azoles via C-H Addition/Oxidative Cross-Coupling: A Combined Experimental and Theoretical Study. <i>Journal of the American Chemical Society</i> , 2017, 139, 15724-15737.	13.7	59
59	From Mechanistic Study to Chiral Catalyst Optimization: Theoretical Insight into Binaphthophosphine-catalyzed Asymmetric Intramolecular [3 + 2] Cycloaddition. <i>Scientific Reports</i> , 2017, 7, 7619.	3.3	11
60	Selection and characterization of DNA aptamer against glucagon receptor by cell-SELEX. <i>Scientific Reports</i> , 2017, 7, 7179.	3.3	32
61	Radical Trifluoromethylative Dearomatization of Indoles and Furans with CO <sub>2</sub> . <i>ACS Catalysis</i> , 2017, 7, 8324-8330.	11.2	85
62	Reactivity and regioselectivity in Diels-Alder reactions of anion encapsulated fullerenes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30393-30401.	2.8	19
63	<i>Zanthoxylum bungeanum</i> Maxim. (Rutaceae): A Systematic Review of Its Traditional Uses, Botany, Phytochemistry, Pharmacology, Pharmacokinetics, and Toxicology. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2172.	4.1	164
64	Efficient Synthesis of Dimeric Oxazoles, Piperidines and Tetrahydroisoquinolines from <i>N</i> -substituted $\alpha$ -oxazolones. <i>Chemistry - A European Journal</i> , 2016, 22, 7696-7701.	3.3	11
65	Exopolysaccharide from <i>Trichoderma pseudokoningii</i> induces macrophage activation. <i>Carbohydrate Polymers</i> , 2016, 149, 112-120.	10.2	50
66	Exopolysaccharide from <i>Trichoderma pseudokoningii</i> promotes maturation of murine dendritic cells. <i>International Journal of Biological Macromolecules</i> , 2016, 92, 1155-1161.	7.5	8
67	Cu(II)-Catalyzed Oxidative Formation of 5,5-dibenzotriazoles. <i>Journal of Organic Chemistry</i> , 2016, 81, 12091-12105.	3.2	32
68	Mechanism of Synergistic Cu(II)/Cu(I)-Mediated Alkyne Coupling: Dinuclear 1,2-Reductive Elimination after Minimum Energy Crossing Point. <i>Journal of Organic Chemistry</i> , 2016, 81, 1654-1660.	3.2	42
69	Rhodium-Catalyzed Hetero-(5 + 2) Cycloaddition of Vinylaziridines and Alkynes: A Theoretical View of the Mechanism and Chirality Transfer. <i>Organometallics</i> , 2016, 35, 771-777.	2.3	33
70	Tuning the Reactivity of Radical through a Triplet Diradical Cu(II) Intermediate in Radical Oxidative Cross-Coupling. <i>Scientific Reports</i> , 2015, 5, 15934.	3.3	34
71	Development of a Rhodium(II)-Catalyzed Chemoselective C(sp <sup>3</sup> )-H Oxygenation. <i>Chemistry - A European Journal</i> , 2015, 21, 14937-14942.	3.3	38
72	Silver Migration Facilitates Isocyanide-Alkyne [3 + 2] Cycloaddition Reactions: Combined Experimental and Theoretical Study. <i>ACS Catalysis</i> , 2015, 5, 6640-6647.	11.2	66