# 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 | Mechanistic view of Ru-catalyzed Câ€“H bond activation and functionalization: computational advances. Chemical Society Reviews, 2018, 47, 7552-7576. | 38.1 | 212 |
| 2 | Asymmetric Propargylic Radical Cyanation Enabled by Dual Organophotoredox and Copper Catalysis. Journal of the American Chemical Society, 2019, 141, 6167-6172. | 13.7 | 174 |
| 3 | Zanthoxylum bungeanum Maxim. (Rutaceae): A Systematic Review of Its Traditional Uses, Botany, Phytochemistry, Pharmacology, Pharmacokinetics, and Toxicology. International Journal of Molecular Sciences, 2017, 18, 2172. | 4.1 | 164 |
| 4 | Ruthenium(II)-enabled para-selective Câ€“H difluoromethylation of anilidesÂand their derivatives. Nature Communications, 2018, 9, 1189. | 12.8 | 104 |
| 5 | Highly Selective and Catalytic Generation of Acyclic Quaternary Carbon Stereocenters via Functionalization of 1,3-Dienes with CO<sub>2</sub>. Journal of the American Chemical Society, 2019, 141, 18825-18835. | 13.7 | 104 |
| 6 | Unmasking the Ligand Effect in Manganese-Catalyzed Hydrogenation: Mechanistic Insight and Catalytic Application. Journal of the American Chemical Society, 2019, 141, 17337-17349. | 13.7 | 102 |
| 7 | Visibleâ€Light Photoredoxâ€Catalyzed Remote Difunctionalizing Carboxylation of Unactivated Alkenes with CO<sub>2</sub>. Angewandte Chemie - International Edition, 2020, 59, 21121-21128. | 13.8 | 102 |
| 8 | Ruthenium(II)â€Catalyzed Câˆ’H Difluoromethylation of Ketoximes: Tuning the Regioselectivity from the meta to the para Position. Angewandte Chemie - International Edition, 2018, 57, 1277-1281. | 13.8 | 100 |
| 9 | Radical Trifluoromethylative Dearomatization of Indoles and Furans with CO<sub>2</sub>. ACS Catalysis, 2017, 7, 8324-8330. | 11.2 | 85 |
| 10 | Well-Designed Phosphineâ€“Urea Ligand for Highly Diastereo- and Enantioselective 1,3-Dipolar Cycloaddition of Methacrylonitrile: A Combined Experimental and Theoretical Study. Journal of the American Chemical Society, 2019, 141, 961-971. | 13.7 | 70 |
| 11 | Visible-Light-Driven Anti-Markovnikov Hydrocarboxylation of Acrylates and Styrenes with CO <sub>2</sub>. CCS Chemistry, 2021, 3, 1746-1756. | 7.8 | 70 |
| 12 | Silver Migration Facilitates Isocyanide-Alkyne [3 + 2] Cycloaddition Reactions: Combined Experimental and Theoretical Study. ACS Catalysis, 2015, 5, 6640-6647. | 11.2 | 66 |
| 13 | Catalytic Lactonization of Unactivated Aryl Câ€“H Bonds with CO<sub>2</sub>: Experimental and Computational Investigation. Organic Letters, 2018, 20, 3776-3779. | 4.6 | 64 |
| 14 | Ruthenium-catalyzed umpolung carboxylation of hydrazones with CO<sub>2</sub>. Chemical Science, 2018, 9, 4873-4878. | 7.4 | 62 |
| 15 | Rhodium/Copper Cocatalyzed Highly trans-Selective 1,2-Diheteroarylation of Alkynes with Azoles via Câ€“H Addition/Oxidative Cross-Coupling: A Combined Experimental and Theoretical Study. Journal of the American Chemical Society, 2017, 139, 15724-15737. | 13.7 | 59 |
| 16 | Exopolysaccharide from Trichoderma pseudokoningii induces macrophage activation. Carbohydrate Polymers, 2016, 149, 112-120. | 10.2 | 50 |
| 17 | The mechanism of copper-catalyzed oxytrifluoromethylation of allylamines with CO<sub>2</sub>: a computational study. Organic Chemistry Frontiers, 2018, 5, 633-639. | 4.5 | 46 |
| 18 | Antiobesity, Regulation of Lipid Metabolism, and Attenuation of Liver Oxidative Stress Effects of Hydroxy-Î±-sanshool Isolated from Zanthoxylum bungeanum on High-Fat Diet-Induced Hyperlipidemic Rats. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-13. | 4.0 | 43 |

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|---|---|---|---|
| 19 | Mechanism of Synergistic Cu(II)/Cu(I)-Mediated Alkyne Coupling: Dinuclear 1,2-Reductive Elimination after Minimum Energy Crossing Point. Journal of Organic Chemistry, 2016, 81, 1654-1660. | 3.2 | 42 |
| 20 | Oxidative Addition Promoted Câ€“C Bond Cleavage in Rh-Mediated Cyclopropenone Activation: A DFT Study. ACS Catalysis, 2019, 9, 10876-10886. | 11.2 | 40 |
| 21 | Development of a Rhodium(II)â€Catalyzed Chemoselective C(sp<sup>3</sup>)ï£¿H Oxygenation. Chemistry - A European Journal, 2015, 21, 14937-14942. | 3.3 | 38 |
| 22 | Ir(III)/Ir(V) or Ir(I)/Ir(III) Catalytic Cycle? Steric-Effect-Controlled Mechanism for the para-Câ€“H Borylation of Arenes. Organometallics, 2017, 36, 2107-2115. | 2.3 | 38 |
| 23 | Palladium-Catalyzed Modular and Enantioselective cis-Difunctionalization of 1,3-Enynes with Imines and Boronic Reagents. Journal of the American Chemical Society, 2021, 143, 17989-17994. | 13.7 | 37 |
| 24 | Stabilization of Two Radicals with One Metal: A Stepwise Coupling Model for Copper-Catalyzed Radicalâ€“Radical Cross-Coupling. Scientific Reports, 2017, 7, 43579. | 3.3 | 35 |
| 25 | Theoretical Study of the Addition of Cuâ€“Carbenes to Acetylenes to Form Chiral Allenes. Journal of the American Chemical Society, 2019, 141, 5772-5780. | 13.7 | 35 |
| 26 | Tuning the Reactivity of Radical through a Triplet Diradical Cu(II) Intermediate in Radical Oxidative Cross-Coupling. Scientific Reports, 2015, 5, 15934. | 3.3 | 34 |
| 27 | Annulation cascade of arylnitriles with alkynes to stable delocalized PAH carbocations via intramolecular rhodium migration. Chemical Science, 2018, 9, 5488-5493. | 7.4 | 34 |
| 28 | Experimental and Theoretical Studies on Ru(II)-Catalyzed Oxidative Câ€“H/Câ€“H Coupling of Phenols with Aromatic Amides Using Air as Oxidant: Scope, Synthetic Applications, and Mechanistic Insights. ACS Catalysis, 2018, 8, 8324-8335. | 11.2 | 34 |
| 29 | Rhodium-Catalyzed Hetero-(5 + 2) Cycloaddition of Vinylaziridines and Alkynes: A Theoretical View of the Mechanism and Chirality Transfer. Organometallics, 2016, 35, 771-777. | 2.3 | 33 |
| 30 | Highly enantioselective nitro-Mannich reaction of ketimines under phase-transfer catalysis. Organic Chemistry Frontiers, 2017, 4, 1266-1271. | 4.5 | 33 |
| 31 | Cu(II)-Catalyzed Oxidative Formation of 5,5â€²-Bistriazoles. Journal of Organic Chemistry, 2016, 81, 12091-12105. | 3.2 | 32 |
| 32 | Selection and characterization of DNA aptamer against glucagon receptor by cell-SELEX. Scientific Reports, 2017, 7, 7179. | 3.3 | 32 |
| 33 | Nucleophilicity versus BrÃ¸nsted Basicity Controlled Chemoselectivity: Mechanistic Insight into Silver- or Scandium-Catalyzed Diazo Functionalization. ACS Catalysis, 2020, 10, 1256-1263. | 11.2 | 31 |
| 34 | Regio- and Enantioselective Hydroalkylations of Unactivated Olefins Enabled by Nickel Catalysis: Reaction Development and Mechanistic Insights. ACS Catalysis, 2022, 12, 5795-5805. | 11.2 | 31 |
| 35 | Ruthenium(II)â€Catalyzed Câˆ'H Difluoromethylation of Ketoximes: Tuning the Regioselectivity from the meta to the para Position. Angewandte Chemie, 2018, 130, 1291-1295. | 2.0 | 26 |
| 36 | Theoretical insight into phosphoric acid-catalyzed asymmetric conjugate addition of indolizines to Î±,Î²-unsaturated ketones. Chinese Chemical Letters, 2018, 29, 1237-1241. | 9.0 | 26 |

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|---|---|---|---|
| 37 | Bioinspired Total Synthesis of Homodimericinâ€...A. Angewandte Chemie - International Edition, 2017, 56, 7890-7894. | 13.8 | 25 |
| 38 | Bioinspired Asymmetric Synthesis of Hispidaninâ€...A. Angewandte Chemie - International Edition, 2017, 56, 5844-5848. | 13.8 | 24 |
| 39 | Layered Chirality Relay Model in Rh(I)-Mediated Enantioselective Câ€“Si Bond Activation: A Theoretical Study. Organic Letters, 2020, 22, 2124-2128. | 4.6 | 23 |
| 40 | Efficient Approach for the Extraction and Identification of Red Pigment from Zanthoxylum bungeanum Maxim and Its Antioxidant Activity. Molecules, 2018, 23, 1109. | 3.8 | 22 |
| 41 | Formal Asymmetric Cycloaddition of Activated Î±,Î²-Unsaturated Ketones with Î±-Diazomethylphosphonate Mediated by a Chiral Silver SPINOL Phosphate Catalyst. Organic Letters, 2019, 21, 593-597. | 4.6 | 22 |
| 42 | Insights into disilylation and distannation: sequence influence and ligand/steric effects on Pd-catalyzed difunctionalization of carbenes. Dalton Transactions, 2018, 47, 1819-1826. | 3.3 | 21 |
| 43 | Enantioselective alkynylation of N-sulfonyl Î±-ketiminoesters via a Friedelâ€“Crafts alkylation strategy. Chemical Communications, 2017, 53, 5890-5893. | 4.1 | 20 |
| 44 | Mechanistic Insight into Palladiumâ€Catalyzed Carbocyclizationâ€Functionalization of Bisallene: A Computational Study. ChemCatChem, 2019, 11, 1228-1237. | 3.7 | 20 |
| 45 | An unusual [4 + 2] fusion strategy to forge meso-N/O-heteroarene-fused (quinoidal) porphyrins with intense near-infrared Q-bands. Chemical Science, 2019, 10, 7274-7280. | 7.4 | 20 |
| 46 | The Third-Generation EGFR Inhibitor, Osimertinib, Promotes c-FLIP Degradation, Enhancing Apoptosis Including TRAIL-Induced Apoptosis in NSCLC Cells with Activating EGFR Mutations. Translational Oncology, 2019, 12, 705-713. | 3.7 | 20 |
| 47 | Combining palladium and ammonium halide catalysts for Moritaâ€“Baylisâ€“Hillman carbonates of methyl vinyl ketone: from 1,4-carbodipoles to ion pairs. Chemical Science, 2021, 12, 11399-11405. | 7.4 | 20 |
| 48 | Reactivity and regioselectivity in Dielsâ€“Alder reactions of anion encapsulated fullerenes. Physical Chemistry Chemical Physics, 2017, 19, 30393-30401. | 2.8 | 19 |
| 49 | Ïƒ-Bond Migration Assisted Decarboxylative Activation of Vinylene Carbonate in Rh-Catalyzed 4 + 2 Annulation: A Theoretical Study. Organometallics, 2020, 39, 2813-2819. | 2.3 | 19 |
| 50 | Rhizopus nigricans polysaccharide activated macrophages and suppressed tumor growth in CT26 tumor-bearing mice. Carbohydrate Polymers, 2018, 198, 302-312. | 10.2 | 18 |
| 51 | Kinetically Controlled Radical Addition/Elimination Cascade: From Alkynyl Aziridine to Fluorinated Allenes. Organic Letters, 2020, 22, 2419-2424. | 4.6 | 16 |
| 52 | Thiolateâ€“palladium(<scp>iv</scp>) or sulfoniumâ€“palladate(0)? A theoretical study on the mechanism of palladium-catalyzed Câ€“S bond formation reactions. Organic Chemistry Frontiers, 2017, 4, 943-950. | 4.5 | 13 |
| 53 | Theoretical prediction on the reactivity of the Co-mediated intramolecular Pauson-Khand reaction for constructing bicyclo-skeletons in natural products. Chinese Chemical Letters, 2019, 30, 889-894. | 9.0 | 13 |
| 54 | Protecting-Group-Free Total Syntheses of (Â±)-Norascyrononeses A and B. Organic Letters, 2020, 22, 2517-2521. | 4.6 | 13 |

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|---|---|---|---|
| 55 | Mechanistic Insights into Manganese (I)â€Catalyzed Chemoselective Hydroarylations of Alkynes: A Theoretical Study. ChemCatChem, 2018, 10, 5280-5286. | 3.7 | 12 |
| 56 | Theoretical study of FMO adjusted C-H cleavage and oxidative addition in nickel catalysed C-H arylation. Communications Chemistry, 2019, 2, . | 4.5 | 12 |
| 57 | Arctigenin inhibits proliferation of ER-positive breast cancer cells through cell cycle arrest mediated by GSK3-dependent cyclin D1 degradation. Life Sciences, 2020, 256, 117983. | 4.3 | 12 |
| 58 | Efficient Synthesis of Dimeric Oxazoles, Piperidines and Tetrahydroisoquinolines from Nâ€Substituted 2â€Oxazolones. Chemistry - A European Journal, 2016, 22, 7696-7701. | 3.3 | 11 |
| 59 | From Mechanistic Study to Chiral Catalyst Optimization: Theoretical Insight into Binaphthophosphepine-catalyzed Asymmetric Intramolecular [3 + 2] Cycloaddition. Scientific Reports, 2017, 7, 7619. | 3.3 | 11 |
| 60 | Synergistic Dinuclear Rhodium Induced Rhodium-Walking Enabling Alkene Terminal Arylation: A Theoretical Study. ACS Catalysis, 2021, 11, 3975-3987. | 11.2 | 11 |
| 61 | Cardioprotective effects of Amentoflavone by suppression of apoptosis and inflammation on an in vitro and vivo model of myocardial ischemia-reperfusion injury. International Immunopharmacology, 2021, 101, 108296. | 3.8 | 11 |
| 62 | How Solvents Control the Chemoselectivity in Rh-Catalyzed Defluorinated [4 + 1] Annulation. Organic Letters, 2021, 23, 1489-1494. | 4.6 | 10 |
| 63 | Acyl radical to rhodacycle addition and cyclization relay to access butterfly flavylium fluorophores. Nature Communications, 2019, 10, 5664. | 12.8 | 9 |
| 64 | Exopolysaccharide from Trichoderma pseudokoningii promotes maturation of murine dendritic cells. International Journal of Biological Macromolecules, 2016, 92, 1155-1161. | 7.5 | 8 |
| 65 | Mechanistic insights into the rhodiumâ€“copper cascade catalyzed dual Câ€“H annulation of indoles. Organic Chemistry Frontiers, 2021, 8, 1739-1746. | 4.5 | 8 |
| 66 | Homogenate-Ultrasound-Assisted Ionic Liquid Extraction of Total Flavonoids from Selaginella involven: Process Optimization, Composition Identification, and Antioxidant Activity. ACS Omega, 2021, 6, 14327-14340. | 3.5 | 8 |
| 67 | Rapid screening for acetylcholinesterase inhibitors in Selaginella doederleinii Hieron by using functionalized magnetic Fe3O4 nanoparticles. Talanta, 2022, 243, 123284. | 5.5 | 7 |
| 68 | Highly Enantioselective Synthesis of [1,2,4]Triazino[5,4-a]isoquinoline Derivatives via (3 + 3) Cycloaddition Reactions of Diazo Compounds and Isoquinolinium Methylides. Organic Letters, 2022, 24, 3766-3771. | 4.6 | 7 |
| 69 | Palladium-Catalyzed Intramolecular Diarylation of 1,3-Diketone in Total Synthesis of (Â±)-Spiroaxillarone A. Organic Letters, 2022, 24, 1491-1495. | 4.6 | 6 |
| 70 | Acrylamide impairs the developmental potential of germinal vesicle oocytes by inducing mitochondrial dysfunction and autophagy/apoptosis in mice. Human and Experimental Toxicology, 2021, 40, S370-S380. | 2.2 | 5 |
| 71 | UltrasonicâEAssisted Ionic Liquid Extraction of Four Biflavonoids from Ginkgo biloba L .. ChemistrySelect, 2021, 6, 3297-3307. | 1.5 | 2 |
| 72 | e5NT inhibitor protects acute restraint stress-induced depression by regulating nucleoside release in mice. Journal of Pharmacy and Pharmacology, 2020, 72, 1556-1563. | 2.4 | 0 |