

Shu-Yu Zhang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Highly Efficient Syntheses of Azetidines, Pyrrolidines, and Indolines via Palladium Catalyzed Intramolecular Amination of C(sp ³)â€“H and C(sp ²)â€“H Bonds at Î³ and Î´ Positions. <i>Journal of the American Chemical Society</i> , 2012, 134, 3-6.	6.6	515
2	Selective fluorescent probes for live-cell monitoring of sulphide. <i>Nature Communications</i> , 2011, 2, 495.	5.8	472
3	Direct Sp ³ â€“Câ€“H activation and functionalization of alcohol and ether. <i>Chemical Society Reviews</i> , 2011, 40, 1937.	18.7	446
4	Palladium-Catalyzed Picolinamide-Directed Alkylation of Unactivated C(sp ³)â€“H Bonds with Alkyl Iodides. <i>Journal of the American Chemical Society</i> , 2013, 135, 2124-2127.	6.6	357
5	Efficient Alkyl Ether Synthesis via Palladium-Catalyzed, Picolinamide-Directed Alkoxylation of Unactivated C(sp ³)â€“H and C(sp ²)â€“H Bonds at Remote Positions. <i>Journal of the American Chemical Society</i> , 2012, 134, 7313-7316.	6.6	321
6	Stereoselective Synthesis of Î²-Alkylated Î±-Amino Acids via Palladium-Catalyzed Alkylation of Unactivated Methylene C(sp ³)â€“H Bonds with Primary Alkyl Halides. <i>Journal of the American Chemical Society</i> , 2013, 135, 12135-12141.	6.6	315
7	Use of a Readily Removable Auxiliary Group for the Synthesis of Pyrrolidones by the Palladiumâ€“Catalyzed Intramolecular Amination of Unactivated Î³ C(sp ³)â€“H Bonds. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11124-11128.	7.2	275
8	Copper-Catalyzed Carboxamide-Directed <i>ortho</i> Amination of Anilines with Alkylamines at Room Temperature. <i>Organic Letters</i> , 2014, 16, 1764-1767.	2.4	187
9	Pd-Catalyzed Monoselective <i>ortho</i>-Câ€“H Alkylation of <i>N</i>-Quinolyl Benzamides: Evidence for Stereoretentive Coupling of Secondary Alkyl Iodides. <i>Journal of the American Chemical Society</i> , 2015, 137, 531-539.	6.6	152
10	Ironâ€“Catalyzed C(sp ³)â€“C(sp ³) Bond Formation through C(sp ³)â€“H Functionalization: A Crossâ€“Coupling Reaction of Alcohols with Alkenes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8761-8765.	7.2	132
11	Palladium-catalyzed trifluoroacetate-promoted mono-arylation of the Î²-methyl group of alanine at room temperature: synthesis of Î²-arylated Î±-amino acids through sequential Câ€“H functionalization. <i>Chemical Science</i> , 2014, 5, 3952.	3.7	124
12	Organocatalytic Asymmetric Direct Câ€“H Functionalization of Ethers: A Highly Efficient Approach to Chiral Spiroethers. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8811-8815.	7.2	111
13	Palladium-Catalyzed Stereoretentive Olefination of Unactivated C(sp ³)â€“H Bonds with Vinyl Iodides at Room Temperature: Synthesis of Î²-Vinyl Î±-Amino Acids. <i>Organic Letters</i> , 2014, 16, 6260-6263.	2.4	108
14	Total Synthesis of Hibispeptin A via Pd-Catalyzed C(sp ³)â€“H Arylation with Sterically Hindered Aryl Iodides. <i>Organic Letters</i> , 2014, 16, 6488-6491.	2.4	80
15	Palladiumâ€“Catalyzed Picolinamideâ€“Directed Acetoxylation of Unactivated Î³â€“C(<i>sp</i>³)â€“H Bonds of Alkylamines. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 1544-1548.	2.1	80
16	Recent progress in the isolation, bioactivity, biosynthesis, and total synthesis of natural spiroketals. <i>Natural Product Reports</i> , 2018, 35, 75-104.	5.2	78
17	Quinine/selectfluor combination induced asymmetric semipinacol rearrangement of allylic alcohols: an effective and enantioselective approach to Î±-quaternary Î²-fluoro aldehydes. <i>Chemical Communications</i> , 2005, , 5580.	2.2	77
18	Copper-Catalyzed Selective <i>ortho</i>-Câ€“H/Nâ€“H Annulation of Benzamides with Arynes: Synthesis of Phenanthridinone Alkaloids. <i>Organic Letters</i> , 2017, 19, 1764-1767.	2.4	77

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19	Highly atroposelective synthesis of nonbiaryl naphthalene-1,2-diamine N-C atropisomers through direct enantioselective C-H amination. <i>Nature Communications</i> , 2019, 10, 3063.	5.8	75
20	Electrochemical Semipinacol Rearrangements of Allylic Alcohols: Construction of All-Carbon Quaternary Stereocenters. <i>Organic Letters</i> , 2019, 21, 2536-2540.	2.4	74
21	Copper-Complex-Catalyzed Asymmetric Aerobic Oxidative Cross-Coupling of 2-Naphthols: Enantioselective Synthesis of 3,3-Disubstituted C_{11} -Symmetric BINOLs. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11023-11027.	7.2	73
22	Development of the Intramolecular Prins Cyclization/Schmidt Reaction for the Construction of the Azaspiro[4,4]nonane: Application to the Formal Synthesis of (\pm)-Stemonamine. <i>Organic Letters</i> , 2011, 13, 724-727.	2.4	67
23	An Efficient Total Synthesis of (\pm)-Lycoramine. <i>Organic Letters</i> , 2004, 6, 4691-4694.	2.4	66
24	Copper-Mediated Cascade C-H/N-H Annulation of Indolocarboxamides with Arynes: Construction of Tetracyclic Indoloquinoline Alkaloids. <i>Organic Letters</i> , 2018, 20, 220-223.	2.4	66
25	Palladium-catalyzed direct intermolecular silylation of remote unactivated $C(sp^3)$ -H bonds. <i>Chemical Communications</i> , 2016, 52, 13151-13154.	2.2	62
26	Formal Synthesis of (\pm)-Cephalotaxine Based on a Tandem Hydroamination/Semipinacol Rearrangement Reaction. <i>Chemistry - an Asian Journal</i> , 2012, 7, 894-898.	1.7	61
27	Lewis Base/Brønsted Acid Co-catalyzed Enantioselective Sulfonylation/Semipinacol Rearrangement of Di- and Trisubstituted Allylic Alcohols. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12491-12496.	7.2	54
28	General and Efficient Strategy for Erythrinan and Homoerythrinan Alkaloids: α -Syntheses of (\pm)-3-Demethoxyerythratidinone and (\pm)-Erysotramidine. <i>Organic Letters</i> , 2006, 8, 2373-2376.	2.4	53
29	Palladium-Catalyzed/Lewis Acid-Promoted Alkene Dimerization and Cross-Coupling with Alcohols via C-H Bond Activation. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 552-556.	2.1	53
30	Mechanistic insights into staphylopine-mediated metal acquisition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3942-3947.	3.3	50
31	Tandem Semipinacol-Type 1,2-Carbon Migration/Aldol Reaction toward the Construction of [5-6-7] All-Carbon Tricyclic Core of Calyciphylline A-Type Alkaloids. <i>Organic Letters</i> , 2012, 14, 5114-5117.	2.4	49
32	Electrochemical halogenation/semi-pinacol rearrangement of allylic alcohols using inorganic halide salt: an eco-friendly route to the synthesis of β -halocarbonyls. <i>Green Chemistry</i> , 2019, 21, 4014-4019.	4.6	49
33	Cross-Coupling Reaction between Alcohols through sp^3 -C-H Activation Catalyzed by a Ruthenium/Lewis Acid System. <i>Chemistry - A European Journal</i> , 2008, 14, 10201-10205.	1.7	48
34	Iodination of Remote Ortho-C-H Bonds of Arenes via Directed S_EAr : A Streamlined Synthesis of Tetrahydroquinolines. <i>Organic Letters</i> , 2013, 15, 3440-3443.	2.4	48
35	Dual Directing-Groups-Assisted Redox-Neutral Annulation and Ring Opening of N -Aryloxyacetamides with 1-Alkynylcyclobutanols via Rhodium(III)-Catalyzed C-H/C-C Activations. <i>Organic Letters</i> , 2019, 21, 2823-2827.	2.4	47
36	A General Efficient Strategy for α -Aryloctahydroindole Alkaloids via Stereocontrolled $ZnBr_2$ -Catalyzed Rearrangement of 2,3-Aziridino Alcohols. <i>Organic Letters</i> , 2003, 5, 2319-2321.	2.4	46

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37	Palladium-Catalyzed Direct Intermolecular Amination of Unactivated Methylene C(sp ³)-H Bonds with Azodiformates via Bidentate-Chelation Assistance. <i>ACS Catalysis</i> , 2017, 7, 2042-2046.	5.5	46
38	Stereoselective Synthesis of <i>Z</i> -Vinylsilanes via Palladium-Catalyzed Direct Intermolecular Silylation of C(sp ²)-H Bonds. <i>Organic Letters</i> , 2017, 19, 5216-5219.	2.4	46
39	Copper-Complex-Catalyzed Asymmetric Aerobic Oxidative Cross-Coupling of 2-Naphthols: Enantioselective Synthesis of 3,3-Substituted C ₁ -Symmetric BINOLs. <i>Angewandte Chemie</i> , 2019, 131, 11139-11143.	1.6	46
40	Rhodium(III)-Catalyzed Redox-Neutral Cascade [3 + 2] Annulation of <i>N</i> -Phenoxyacetamides with Propiolates via C-H Functionalization/Isomerization/Lactonization. <i>Organic Letters</i> , 2018, 20, 7131-7136.	2.4	45
41	Organocatalytic Enantioselective Construction of Heterocycle-Substituted Styrenes with Chiral Atropisomerism. <i>Organic Letters</i> , 2020, 22, 2448-2453.	2.4	43
42	Cobalt-Catalyzed <i>Ortho</i> -C(sp ²)-H Amidation of Benzaldehydes with Dioxazolones Using Transient Directing Groups. <i>Organic Letters</i> , 2019, 21, 7342-7345.	2.4	42
43	Tandem C-H oxidation/cyclization/rearrangement and its application to asymmetric syntheses of (<i>â</i>)-brussonol and (<i>â</i>)-przewalskine E. <i>Nature Communications</i> , 2015, 6, 7332.	5.8	40
44	Electrophilic Trifluoromethylthiolation/Semipinacol Rearrangement: Preparation of <i>Î</i> ² -SCF ₃ Carbonyl Compounds with <i>Î</i> [±] -Quaternary Carbon Center. <i>Organic Letters</i> , 2018, 20, 4227-4230.	2.4	40
45	Cascade Oxidative Dearomatization/Semipinacol Rearrangement: An Approach to 2- <i>Î</i> spirocyclo- <i>Î</i> oxindole Derivatives. <i>Chemistry - an Asian Journal</i> , 2013, 8, 883-887.	1.7	39
46	Palladium-catalyzed picolinamide-directed halogenation of <i>ortho</i> C-H bonds of benzylamine substrates. <i>Tetrahedron</i> , 2014, 70, 4197-4203.	1.0	39
47	Remote C ₆ -Enantioselective C-H Functionalization of 2,3-Disubstituted Indoles through the Dual H-Bonds and <i>Î</i> - <i>Î</i> Interaction Strategy Enabled by CPAs. <i>Organic Letters</i> , 2019, 21, 8662-8666.	2.4	39
48	Palladium-catalyzed alkylation of unactivated C(sp ³)-H bonds with primary alkyl iodides at room temperature: facile synthesis of <i>Î</i> ² -alkyl <i>Î</i> [±] -amino acids. <i>Organic Chemistry Frontiers</i> , 2015, 2, 1318-1321.	2.3	35
49	Experimental and computational studies on H ₂ O-promoted, Rh-catalyzed transient-ligand-free <i>ortho</i> -C(sp ²)-H amidation of benzaldehydes with dioxazolones. <i>Chemical Communications</i> , 2018, 54, 8889-8892.	2.2	35
50	Computational and experimental studies on copper-mediated selective cascade C-H/N-H annulation of electron-deficient acrylamide with arynes. <i>Chemical Communications</i> , 2019, 55, 755-758.	2.2	33
51	Tandem Aziridination/Rearrangement Reaction of Allylic Alcohols: An Efficient Approach to 2-Quaternary Mannich Bases. <i>Organic Letters</i> , 2008, 10, 4943-4946.	2.4	32
52	Synthesis of phenanthridines via palladium-catalyzed picolinamide-directed sequential C-H functionalization. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 891-899.	1.3	32
53	Highly Chemo-, Site-, and Enantioselective <i>para</i> -C-H Aminoalkylation of <i>N</i> -Monosubstituted Aniline Derivatives Affording 3-Amino-2-oxindoles. <i>Organic Letters</i> , 2020, 22, 2173-2177.	2.4	32
54	High heat-resistant polyimide films containing quinoxaline moiety for flexible substrate applications. <i>Polymer</i> , 2020, 209, 122963.	1.8	31

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55	Asymmetric <i>N</i> -Hydroxyalkylation of Indoles with Ethyl Glyoxalates Catalyzed by a Chiral Phosphoric Acid: Highly Enantioselective Synthesis of Chiral <i>N,O</i> -Aminal Indole Derivatives. <i>Organic Letters</i> , 2019, 21, 2795-2799.	2.4	27
56	Metal-Controlled, Regioselective, Direct Intermolecular α - or β -Amination with Azodicarboxylates. <i>Organic Letters</i> , 2018, 20, 3469-3472.	2.4	26
57	A Facile Approach to Oximes and Ethers by a Tandem NO^+ -Initiated Semipinacol Rearrangement and β -Elimination. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13192-13196.	7.2	26
58	Asymmetric Organocatalytic Synthesis of 2,3-Allenamides from Hydrogen-Bond-Stabilized Enynamides. <i>Organic Letters</i> , 2019, 21, 2468-2472.	2.4	26
59	Chiral Brønsted Acid-Promoted Enantioselective Desymmetrization in an Intramolecular Schmidt Reaction of Symmetric Azido 1,3-Hexanediones: Asymmetric Synthesis of Azaquaternary Pyrroloazepine Skeletons. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1344-1347.	1.7	25
60	Design and synthesis of a novel quinoxaline diamine and its polyimides with high-Tg and red color. <i>Polymer</i> , 2019, 179, 121612.	1.8	24
61	Catalytic Asymmetric Cascade Using Spiro-Pyrrolidine Organocatalyst: Efficient Construction of Hydrophenanthridine Derivatives. <i>Organic Letters</i> , 2017, 19, 6618-6621.	2.4	23
62	Gold(I)/Copper(II)-Cocatalyzed Tandem Cyclization/Semipinacol Reaction: Construction of α -Aza/Oxa-Spiro[4.5]decane Skeletons and Formal Synthesis of α -Halichlorine. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 747-752.	2.1	20
63	Chiral Phosphoric Acid-Catalyzed Enantioselective Dearomative Electrophilic Hydrazination: Access to Chiral Aza-Quaternary Carbon Indolenines. <i>ACS Catalysis</i> , 2022, 12, 7511-7516.	5.5	17
64	A coupling reaction between tetrahydrofuran and olefins by Rh-catalyzed/Lewis acid-promoted $\text{C}^{\alpha}\text{H}$ activation. <i>Tetrahedron Letters</i> , 2008, 49, 4652-4654.	0.7	16
65	Total Synthesis of Fawcettimine-Type Alkaloid, Lycojaponicum A. <i>Organic Letters</i> , 2020, 22, 3775-3779.	2.4	16
66	Palladium Catalyzed Aminocarbonylation of Benzylic Ammonium Triflates with Nitroarenes: Synthesis of Phenylacetamides. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 2061-2065.	2.1	16
67	Direct Syntheses of Spiro- and Fused-Hydrofurans by a Tunable Tandem Semipinacol Rearrangement/Oxa-Michael Addition Protocol. <i>Chemistry - A European Journal</i> , 2013, 19, 5246-5249.	1.7	15
68	Fe-Catalyzed Sequential $\text{C}(\text{sp}^3)\text{H}/\text{N}^{\alpha}\text{H}$ Annulation of 2-Methylindoles with Ethyl Trifluoropyruvate at Room Temperature: Construction of Pyrrolo[1,2- β]indoles. <i>Organic Letters</i> , 2020, 22, 4716-4720.	2.4	15
69	Paired Electrolysis Enabled Ni-Catalyzed Unconventional Cascade Reductive Thiolation Using Sulfonates. <i>Journal of Organic Chemistry</i> , 2021, 86, 15326-15334.	1.7	15
70	Organocatalytic Direct Asymmetric Indolization from Anilines by Enantioselective [3 + 2] Annulation. <i>Organic Letters</i> , 2021, 23, 8434-8438.	2.4	15
71	Base-Promoted Cobalt-Catalyzed Regio- and Enantioselective <i>para</i> -Friedel-Crafts Alkylation of Aniline Derivatives. <i>Organic Letters</i> , 2021, 23, 9353-9359.	2.4	15
72	Biinspired Palladium-Catalyzed Intramolecular $\text{C}(\text{sp}^3)\text{H}$ Activation for the Collective Synthesis of Proline Natural Products. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	15

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73	Bromine and oxygen redox species mediated highly selective electro-epoxidation of styrene. <i>Organic Chemistry Frontiers</i> , 2022, 9, 436-444.	2.3	14
74	Transition Metalâ€Controlled Direct Regioselective Intermolecular Amidation of Câ~H Bonds with Azodicarboxylates: Scope, Mechanistic Studies, and Applications. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 4205-4214.	2.1	13
75	A RhCl(PPh ₃) ₃ /BF ₃ ·OEt ₂ co-promoted direct Câ€C cross-coupling of alcohols at Î²-position with aldehydes. <i>Tetrahedron Letters</i> , 2009, 50, 4178-4181.	0.7	12
76	Asymmetric intramolecular Friedelâ€Crafts reaction catalyzed by a spiropyrrolidine organocatalyst: Enantioselective construction of indolizine and azepine frameworks. <i>Tetrahedron Letters</i> , 2018, 59, 4015-4018.	0.7	12
77	Co-Catalyzed Direct Regio- and Enantioselective Intermolecular Î³-Amination of <i>N</i> -Acylpyrazoles. <i>Organic Letters</i> , 2021, 23, 25-30.	2.4	12
78	Prolinamide/PPTS-Catalyzed Hajos-Parrish Annulation: Efficient Approach to the Tricyclic Core of Cylindricine-Type Alkaloids. <i>Synlett</i> , 2008, 2008, 2831-2835.	1.0	11
79	Lewis Base/Brønsted Acid Co-catalyzed Enantioselective Sulfonylation/Semipinacol Rearrangement of Di- and Trisubstituted Allylic Alcohols. <i>Angewandte Chemie</i> , 2019, 131, 12621-12626.	1.6	11
80	A Facile Approach to Oximes and Ethers by a Tandem NO ⁺ -Initiated Semipinacol Rearrangement and Hâ€Elimination. <i>Angewandte Chemie</i> , 2018, 130, 13376-13380.	1.6	7
81	Using Computational Chemistry to Improve Studentsâ€™ Multidimensional Understanding of Complex Electrophilic Aromatic Substitution Reactions: Further Analysis of the Solvent Effect, Temperature Influence, and Kinetic Behaviors. <i>Journal of Chemical Education</i> , 0, , .	1.1	7
82	Studies on the Total Synthesis of 8-epi-Liphagal. <i>Acta Chimica Sinica</i> , 2012, 70, 2232.	0.5	6
83	An alternative synthetic approach towards erythrinan and homoerythrinan alkaloids by tandem semipinacol/intramolecular Schmidt reaction. <i>Chinese Chemical Letters</i> , 2007, 18, 917-919.	4.8	5
84	A Direct Câ€C Cross-Coupling of Alcohols at the Î²-Position with Aldehydes under Co-Promotion of Tris(triphenylphosphine)rhodium Chloride/Boron Trifluoride Etherate. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2189-2193.	2.1	5
85	Asymmetric Synthesis of the C(17)â€C(28) Subunit of Didemnaketal B. <i>Chinese Journal of Chemistry</i> , 2007, 25, 1357-1362.	2.6	4
86	Toward the natural didemnaketal A: total synthesis of the isomer of didemnaketal A. <i>Tetrahedron Letters</i> , 2013, 54, 6514-6516.	0.7	4
87	A Synthetic Approach for Constructing the 3/6/6/5-Fused Tetracyclic Skeleton of Tenuipesine A. <i>Chemistry - an Asian Journal</i> , 2014, 9, 724-727.	1.7	4
88	A dienamine-mediated deconjugative addition/cyclization cascade of Î³,Î³-disubstituted enals with carboxylic acid-activated enones: a rapid access to highly functionalized Î³-lactones. <i>Organic Chemistry Frontiers</i> , 2020, 7, 571-577.	2.3	4
89	Highly Site- and Enantioselective Nâ€H Functionalization of <i>N</i> -Monosubstituted Aniline Derivatives Affording Pyrazolones Bearing a Quaternary Stereocenter. <i>Chinese Journal of Chemistry</i> , 2022, 40, 1144-1148.	2.6	4
90	First Synthesis of (+)-2,14-Deoxyalatalol from Î±-Santonin. <i>Chinese Journal of Chemistry</i> , 2004, 22, 377-383.	2.6	3

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91	DFT and experimental studies on Rh(III)-catalyzed dual directing-groups-assisted [3+2] annulation and ring-opening of N-aryloxyacetamides with 1-(phenylethynyl)cycloalkanol. <i>Tetrahedron Letters</i> , 2021, 69, 152979.	0.7	3
92	Molecular basis for cell-wall recycling regulation by transcriptional repressor MurR in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2022, 50, 5948-5960.	6.5	3
93	Bioinspired Palladium-Catalyzed Intramolecular C ³ -H Activation for the Collective Synthesis of Proline Natural Products. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
94	Silver-Catalyzed para-Selective C-H Amination of 1-Naphthylamides with Azodicarboxylates at Room Temperature. <i>Synthesis</i> , 2019, 51, 2697-2704.	1.2	2