

Gang He

List of Publications by Year in descending order

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67
papers

6,381
citations

76326

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95266

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docs citations

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times ranked

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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.	13.7	515
2	Syntheses and Transformations of Î±-Amino Acids via Palladium-Catalyzed Auxiliary-Directed sp ³ Câ€“H Functionalization. <i>Accounts of Chemical Research</i> , 2016, 49, 635-645.	15.6	446
3	A Practical Strategy for the Structural Diversification of Aliphatic Scaffolds through the Palladiumâ€“Catalyzed Picolinamideâ€“Directed Remote Functionalization of Unactivated C(sp ³)â€“H Bonds. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5192-5196.	13.8	365
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.	13.7	357
5	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.	13.7	315
6	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.	13.8	275
7	Photoredox-mediated Minisci Câ€“H alkylation of N-heteroarenes using boronic acids and hypervalent iodine. <i>Chemical Science</i> , 2016, 7, 6407-6412.	7.4	272
8	Halogen-Bond-Promoted Photoactivation of Perfluoroalkyl Iodides: A Photochemical Protocol for Perfluoroalkylation Reactions. <i>Organic Letters</i> , 2017, 19, 1442-1445.	4.6	224
9	A general strategy for synthesis of cyclophane-braced peptide macrocycles via palladium-catalysed intramolecular sp ³ Câ€“H arylation. <i>Nature Chemistry</i> , 2018, 10, 540-548.	13.6	180
10	A visible-light-promoted radical reaction system for azidation and halogenation of tertiary aliphatic Câ€“H bonds. <i>Chemical Science</i> , 2016, 7, 2679-2683.	7.4	159
11	Iridium-Catalyzed Enantioselective C(sp ³)â€“H Amidation Controlled by Attractive Noncovalent Interactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 7194-7201.	13.7	156
12	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.	13.7	152
13	Improved Protocol for Indoline Synthesis via Palladium-Catalyzed Intramolecular C(sp ²)â€“H Amination. <i>Organic Letters</i> , 2012, 14, 2944-2947.	4.6	148
14	An Enantioselective Bidentate Auxiliary Directed Palladiumâ€“Catalyzed Benzylic Câ€“H Arylation of Amines Using a BINOL Phosphate Ligand. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15387-15391.	13.8	142
15	Palladium-Catalyzed Amide-Directed Enantioselective Hydrocarbofunctionalization of Unactivated Alkenes Using a Chiral Monodentate Oxazoline Ligand. <i>Journal of the American Chemical Society</i> , 2018, 140, 3542-3546.	13.7	137
16	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.	7.4	124
17	Photoredox-mediated remote C(sp ³)â€“H heteroarylation of free alcohols. <i>Chemical Science</i> , 2019, 10, 688-693.	7.4	111
18	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.	4.6	108

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19	Construction of Natural-Product-Like Cyclophane-Braced Peptide Macrocycles via $\text{sp}^3\text{-C-H}$ Arylation. <i>Journal of the American Chemical Society</i> , 2019, 141, 9401-9407.	13.7	108
20	Benzazetidone synthesis via palladium-catalysed intramolecular C-H amination. <i>Nature Chemistry</i> , 2016, 8, 1131-1136.	13.6	100
21	Photoredox-Mediated Minisci-type Alkylation of <i>N</i> -Heteroarenes with Alkanes with High Methylene Selectivity. <i>ACS Catalysis</i> , 2018, 8, 11847-11853.	11.2	97
22	Palladium-catalysed C-H glycosylation for synthesis of C-aryl glycosides. <i>Nature Catalysis</i> , 2019, 2, 793-800.	34.4	97
23	A unified photoredox-catalysis strategy for $\text{C}(\text{sp}^3)\text{-H}$ hydroxylation and amidation using hypervalent iodine. <i>Chemical Science</i> , 2017, 8, 7180-7185.	7.4	97
24	Asymmetric Synthesis of β -Lactam via Palladium-Catalyzed Enantioselective Intramolecular $\text{C}(\text{sp}^3)\text{-H}$ Amidation. <i>ACS Catalysis</i> , 2020, 10, 114-120.	11.2	83
25	Total Synthesis of Hibispeptin A via Pd-Catalyzed $\text{C}(\text{sp}^3)\text{-H}$ Arylation with Sterically Hindered Aryl Iodides. <i>Organic Letters</i> , 2014, 16, 6488-6491.	4.6	80
26	Palladium-Catalyzed Picolinamide-Directed Acetoxylation of Unactivated $\text{C}(\text{sp}^3)\text{-H}$ Bonds of Alkylamines. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 1544-1548.	4.3	80
27	Palladium-Catalyzed Amide-Directed Enantioselective Carboboration of Unactivated Alkenes Using a Chiral Monodentate Oxazoline Ligand. <i>ACS Catalysis</i> , 2019, 9, 6502-6509.	11.2	74
28	Nitrene-mediated intermolecular N-N coupling for efficient synthesis of hydrazides. <i>Nature Chemistry</i> , 2021, 13, 378-385.	13.6	65
29	Postassembly Modifications of Peptides via Metal-Catalyzed C-H Functionalization. <i>CCS Chemistry</i> , 2021, 3, 1797-1820.	7.8	61
30	Total Synthesis of Mannoheptimycins $\mathbf{1}$ and $\mathbf{2}$. <i>Journal of the American Chemical Society</i> , 2016, 138, 3926-3932.	13.7	53
31	Iridium-Catalyzed <i>ortho</i> - $\text{C}(\text{sp}^2)\text{-H}$ Amidation of Benzaldehydes with Organic Azides. <i>Journal of Organic Chemistry</i> , 2017, 82, 4497-4503.	3.2	53
32	Palladium-Catalyzed Amide-Directed Hydrocarbofunctionalization of 3-Alkenamides with Alkynes. <i>ACS Catalysis</i> , 2020, 10, 933-940.	11.2	52
33	Photoredox-Mediated Minisci Alkylation of <i>N</i> -Heteroarenes using Carboxylic Acids and Hypervalent Iodine. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 1307-1310.	2.7	49
34	Epimerization of Tertiary Carbon Centers via Reversible Radical Cleavage of Unactivated $\text{C}(\text{sp}^3)\text{-H}$ Bonds. <i>Journal of the American Chemical Society</i> , 2018, 140, 9678-9684.	13.7	49
35	Stereoselective Synthesis of <i>C</i> -Vinyl Glycosides via Palladium-Catalyzed C-H Glycosylation of Alkenes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19620-19625.	13.8	48
36	Pd(0)-Catalyzed Bidentate Auxiliary Directed Enantioselective Benzylic C-H Arylation of 3-Arylpropanamides Using the BINOL Phosphoramidite Ligand. <i>ACS Catalysis</i> , 2018, 8, 11502-11512.	11.2	47

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37	An Enantioselective Bidentate Auxiliary Directed Palladium-Catalyzed Benzylic C-H Arylation of Amines Using a BINOL Phosphate Ligand. <i>Angewandte Chemie</i> , 2016, 128, 15613-15617.	2.0	46
38	Radical-mediated intramolecular \hat{I}^2 -C(sp ³)-H amidation of alkylimidates: facile synthesis of 1,2-amino alcohols. <i>Chemical Communications</i> , 2018, 54, 515-518.	4.1	46
39	Total Synthesis of C- \hat{I}^2 -Mannosyl Tryptophan via Palladium-Catalyzed C-H Glycosylation. <i>CCS Chemistry</i> , 2021, 3, 1729-1736.	7.8	46
40	Enantioselective Alkylamination of Unactivated Alkenes under Copper Catalysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 1195-1202.	13.7	46
41	Streamlined construction of peptide macrocycles via palladium-catalyzed intramolecular S-arylation in solution and on DNA. <i>Chemical Science</i> , 2021, 12, 5804-5810.	7.4	41
42	Copper(I)-Catalyzed Enantioselective Intramolecular Aminotrifluoromethylation of α -Homoallyl Benzimidates. <i>Organic Letters</i> , 2019, 21, 4657-4661.	4.6	38
43	Minisci C-H alkylation of N-heteroarenes with aliphatic alcohols via \hat{I}^2 -scission of alkoxy radical intermediates. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3205-3209.	4.5	36
44	Construction of Cyclophane-Braced Peptide Macrocycles via Palladium-Catalyzed Picolinamide-Directed Intramolecular C(sp ²)-H Arylation. <i>Organic Letters</i> , 2020, 22, 6879-6883.	4.6	35
45	Synthesis of non-classical heteroaryl C-glycosides via Minisci-type alkylation of N-heteroarenes with 4-glycosyl-dihydropyridines. <i>Science China Chemistry</i> , 2020, 63, 1613-1618.	8.2	33
46	Synthesis of \hat{I}^2 -alkynyl \hat{I}^1 -amino acids via palladium-catalyzed alkylation of unactivated C(sp ³)-H bonds. <i>Science China Chemistry</i> , 2015, 58, 1345-1348.	8.2	28
47	Synthesis of Cyclophane-Braced Peptide Macrocycles via Palladium-Catalyzed Intramolecular C(sp ³)-H Arylation of N-Methyl Alanine at C-Termini. <i>Organic Letters</i> , 2020, 22, 6209-6213.	4.6	24
48	Pd-Catalyzed Ortho-Directed C-H Glycosylation of Arenes Using N-linked Bidentate Auxiliaries. <i>Chinese Journal of Chemistry</i> , 2021, 39, 571-576.	4.9	24
49	Cooperative Stapling of Native Peptides at Lysine and Tyrosine or Arginine with Formaldehyde. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6646-6652.	13.8	24
50	Radical C-H Arylation of Oxazoles with Aryl Iodides: dppf as an Electron-Transfer Mediator for Cs ₂ CO ₃ . <i>Organic Letters</i> , 2018, 20, 1684-1687.	4.6	22
51	Photoredox-Mediated Remote C(sp ³)-H Heteroarylation of N-Alkyl Sulfonamides. <i>Journal of Organic Chemistry</i> , 2019, 84, 15777-15787.	3.2	22
52	Extendable stapling of unprotected peptides by crosslinking two amines with o-phthalaldehyde. <i>Nature Communications</i> , 2022, 13, 311.	12.8	22
53	Synthesis of 2-Deoxy-C-glycosides via Iridium-Catalyzed sp ² and sp ³ C-H Glycosylation with Unfunctionalized Glycals. <i>Chinese Journal of Chemistry</i> , 2022, 40, 571-576.	4.9	21
54	Palladium-Catalyzed ortho C-H Arylation of Benzaldehydes Using ortho-Sulfinyl Aniline as Transient Auxiliary. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2423-2426.	3.3	20

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55	Palladium-Catalyzed <i>O</i> - and <i>N</i> -Glycosylation with Glycosyl Chlorides. <i>CCS Chemistry</i> , 2021, 3, 1821-1829.	7.8	20
56	Nitrene-Mediated C–N Coupling Under Iron Catalysis. <i>CCS Chemistry</i> , 2022, 4, 2258-2266.	7.8	17
57	β-Lactam Synthesis via Copper-Catalyzed Directed Aminoalkylation of Unactivated Alkenes with Cyclobutanone <i>O</i> -Benzoyloximes. <i>Organic Letters</i> , 2021, 23, 3620-3625.	4.6	16
58	Synthesis of 2,3-Fused Indoline Aminals <i>via</i> 4 + 2 Cycloaddition of NH-free Benzazetidines with Indoles. <i>Chinese Journal of Chemistry</i> , 2019, 37, 119-125.	4.9	14
59	Construction of Peptide Macrocycles via Palladium-Catalyzed Multiple S-Arylation: An Effective Strategy to Expand the Structural Diversity of Cross-Linkers. <i>Organic Letters</i> , 2021, 23, 8001-8006.	4.6	11
60	Palladium-catalyzed picolinamide-directed iodination of remote ortho-C–H bonds of arenes: Synthesis of tetrahydroquinolines. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 1243-1249.	2.2	10
61	Photoredox-Mediated Mono- and Difluorination of Remote Unactivated Methylene C(sp ³)–H Bonds of <i>N</i> -Alkyl Sulfonamides. <i>Organic Letters</i> , 2021, 23, 3631-3635.	4.6	10
62	Construction of Peptide Macrocycles via Radical-Mediated Intramolecular C–H Alkylations. <i>Organic Letters</i> , 2021, 23, 716-721.	4.6	10
63	Construction of Complex Macromulticyclic Peptides via Stitching with Formaldehyde and Guanidine. <i>Journal of the American Chemical Society</i> , 2022, 144, 10080-10090.	13.7	9
64	Stereoselective Synthesis of <i>C</i> -Vinyl Glycosides via Palladium-Catalyzed C–H Glycosylation of Alkenes. <i>Angewandte Chemie</i> , 2021, 133, 19772-19777.	2.0	8
65	Ruthenium-Catalyzed Pyridine-Directed Aryl C–H Glycosylation with Glycosyl Chlorides. <i>Journal of Organic Chemistry</i> , 2022, 87, 8811-8818.	3.2	6
66	Synthesis of reversible PAD4 inhibitors via copper-catalyzed C–H arylation of benzimidazole. <i>Science China Chemistry</i> , 2019, 62, 592-596.	8.2	4
67	Correction: Photoredox-mediated Minisci C–H alkylation of <i>N</i> -heteroarenes using boronic acids and hypervalent iodine. <i>Chemical Science</i> , 2016, 7, 6573-6573.	7.4	1