Gang He

List of Publications by Year
in descending order

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67 papers	6,381 citations	76294 40 h-index	95218 68 g-index
69 all docs	69 docs citations	69 times ranked	3824 citing authors

#	Article	IF	Citations
1	Highly Efficient Syntheses of Azetidines, Pyrrolidines, and Indolines via Palladium Catalyzed Intramolecular Amination of C(sp³)â€“H and C(sp²)â€“H Bonds at Î³ and Î´ Positions. Journal of the American Chemical Society, 2012, 134, 3-6.	6.6	515
2	Syntheses and Transformations of Î±-Amino Acids via Palladium-Catalyzed Auxiliary-Directed sp³ Câ€“H Functionalization. Accounts of Chemical Research, 2016, 49, 635-645.	7.6	446
3	A Practical Strategy for the Structural Diversification of Aliphatic Scaffolds through the Palladiumâ€Catalyzed Picolinamideâ€Directed Remote Functionalization of Unactivated C(sp³)ï£¿H Bonds. Angewandte Chemie - International Edition, 2011, 50, 5192-5196.	7.2	365
4	Palladium-Catalyzed Picolinamide-Directed Alkylation of Unactivated C(sp³)â€“H Bonds with Alkyl Iodides. Journal of the American Chemical Society, 2013, 135, 2124-2127.	6.6	357
5	Stereoselective Synthesis of Î²-Alkylated Î±-Amino Acids via Palladium-Catalyzed Alkylation of Unactivated Methylene C(sp³)â€“H Bonds with Primary Alkyl Halides. Journal of the American Chemical Society, 2013, 135, 12135-12141.	6.6	315
6	Use of a Readily Removable Auxiliary Group for the Synthesis of Pyrrolidones by the Palladiumâ€Catalyzed Intramolecular Amination of Unactivated Î³ C(sp³)ï£¿H Bonds. Angewandte Chemie - International Edition, 2013, 52, 11124-11128.	7.2	275
7	Photoredox-mediated Minisci Câ€“H alkylation of N-heteroarenes using boronic acids and hypervalent iodine. Chemical Science, 2016, 7, 6407-6412.	3.7	272
8	Halogen-Bond-Promoted Photoactivation of Perfluoroalkyl Iodides: A Photochemical Protocol for Perfluoroalkylation Reactions. Organic Letters, 2017, 19, 1442-1445.	2.4	224
9	A general strategy for synthesis of cyclophane-braced peptide macrocycles via palladium-catalysed intramolecular sp3 Câˆ’H arylation. Nature Chemistry, 2018, 10, 540-548.	6.6	180
10	A visible-light-promoted radical reaction system for azidation and halogenation of tertiary aliphatic Câ€“H bonds. Chemical Science, 2016, 7, 2679-2683.	3.7	159
11	Iridium-Catalyzed Enantioselective C(sp³)â€“H Amidation Controlled by Attractive Noncovalent Interactions. Journal of the American Chemical Society, 2019, 141, 7194-7201.	6.6	156
12	Pd-Catalyzed Monoselective ortho-Câ€“H Alkylation of N-Quinolyl Benzamides: Evidence for Stereoretentive Coupling of Secondary Alkyl Iodides. Journal of the American Chemical Society, 2015, 137, 531-539.	6.6	152
13	Improved Protocol for Indoline Synthesis via Palladium-Catalyzed Intramolecular C(sp²)â€“H Amination. Organic Letters, 2012, 14, 2944-2947.	2.4	148
14	An Enantioselective Bidentate Auxiliary Directed Palladiumâ€Catalyzed Benzylic Câˆ’H Arylation of Amines Using a BINOL Phosphate Ligand. Angewandte Chemie - International Edition, 2016, 55, 15387-15391.	7.2	142
15	Palladium-Catalyzed Amide-Directed Enantioselective Hydrocarbofunctionalization of Unactivated Alkenes Using a Chiral Monodentate Oxazoline Ligand. Journal of the American Chemical Society, 2018, 140, 3542-3546.	6.6	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. Chemical Science, 2014, 5, 3952.	3.7	124
17	Photoredox-mediated remote C(sp³)â€“H heteroarylation of free alcohols. Chemical Science, 2019, 10, 688-693.	3.7	111
18	Palladium-Catalyzed Stereoretentive Olefination of Unactivated C(sp³)â€“H Bonds with Vinyl Iodides at Room Temperature: Synthesis of Î²-Vinyl Î±-Amino Acids. Organic Letters, 2014, 16, 6260-6263.	2.4	108

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19	Construction of Natural-Product-Like Cyclophane-Braced Peptide Macrocycles via sp³ Câ€“H Arylation. Journal of the American Chemical Society, 2019, 141, 9401-9407.	6.6	108
20	Benzazetidine synthesis via palladium-catalysed intramolecular Câˆ’H amination. Nature Chemistry, 2016, 8, 1131-1136.	6.6	100
21	Photoredox-Mediated Minisci-type Alkylation of N-Heteroarenes with Alkanes with High Methylene Selectivity. ACS Catalysis, 2018, 8, 11847-11853.	5.5	97
22	Palladium-catalysed Câˆ’H glycosylation for synthesis of C-aryl glycosides. Nature Catalysis, 2019, 2, 793-800.	16.1	97
23	A unified photoredox-catalysis strategy for C(sp³)â€“H hydroxylation and amidation using hypervalent iodine. Chemical Science, 2017, 8, 7180-7185.	3.7	97
24	Asymmetric Synthesis of Î²-Lactam via Palladium-Catalyzed Enantioselective Intramolecular C(sp³)â€“H Amidation. ACS Catalysis, 2020, 10, 114-120.	5.5	83
25	Total Synthesis of Hibispeptin A via Pd-Catalyzed C(sp³)â€“H Arylation with Sterically Hindered Aryl Iodides. Organic Letters, 2014, 16, 6488-6491.	2.4	80
26	Palladiumâ€Catalyzed Picolinamideâ€Directed Acetoxylation of Unactivated Î³â€C(sp³)ïŁ¿H Bonds of Alkylamines. Advanced Synthesis and Catalysis, 2014, 356, 1544-1548.	2.1	80
27	Palladium-Catalyzed Amide-Directed Enantioselective Carboboration of Unactivated Alkenes Using a Chiral Monodentate Oxazoline Ligand. ACS Catalysis, 2019, 9, 6502-6509.	5.5	74
28	Nitrene-mediated intermolecular Nâ€“N coupling for efficient synthesis of hydrazides. Nature Chemistry, 2021, 13, 378-385.	6.6	65
29	Postassembly Modifications of Peptides via Metal-Catalyzed Câ€“H Functionalization. CCS Chemistry, 2021, 3, 1797-1820.	4.6	61
30	Total Synthesis of Mannopeptimycins Î± and Î². Journal of the American Chemical Society, 2016, 138, 3926-3932.	6.6	53
31	Iridium-Catalyzed ortho-C(sp²)â€“H Amidation of Benzaldehydes with Organic Azides. Journal of Organic Chemistry, 2017, 82, 4497-4503.	1.7	53
32	Palladium-Catalyzed Amide-Directed Hydrocarbofunctionalization of 3-Alkenamides with Alkynes. ACS Catalysis, 2020, 10, 933-940.	5.5	52
33	Photoredoxâ€Mediated Minisci Alkylation of Nâ€Heteroarenes using Carboxylic Acids and Hypervalent Iodine. Asian Journal of Organic Chemistry, 2018, 7, 1307-1310.	1.3	49
34	Epimerization of Tertiary Carbon Centers via Reversible Radical Cleavage of Unactivated C(sp³)â€“H Bonds. Journal of the American Chemical Society, 2018, 140, 9678-9684.	6.6	49
35	Stereoselective Synthesis of Câ€Vinyl Glycosides via Palladiumâ€Catalyzed Câˆ’H Glycosylation of Alkenes. Angewandte Chemie - International Edition, 2021, 60, 19620-19625.	7.2	48
36	Pd(0)-Catalyzed Bidentate Auxiliary Directed Enantioselective Benzylic Câ€“H Arylation of 3-Arylpropanamides Using the BINOL Phosphoramidite Ligand. ACS Catalysis, 2018, 8, 11502-11512.	5.5	47

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37	An Enantioselective Bidentate Auxiliary Directed Palladiumâ€Catalyzed Benzylic Câ€H Arylation of Amines Using a BINOL Phosphate Ligand. Angewandte Chemie, 2016, 128, 15613-15617.	1.6	46
38	Radical-mediated intramolecular Î²-C(sp³)â€“H amidation of alkylimidates: facile synthesis of 1,2-amino alcohols. Chemical Communications, 2018, 54, 515-518.	2.2	46
39	Total Synthesis of C-Î±-Mannosyl Tryptophan via Palladium-Catalyzed Câ€“H Glycosylation. CCS Chemistry, 2021, 3, 1729-1736.	4.6	46
40	Enantioselective Alkylamination of Unactivated Alkenes under Copper Catalysis. Journal of the American Chemical Society, 2021, 143, 1195-1202.	6.6	46
41	Streamlined construction of peptide macrocycles via palladium-catalyzed intramolecular S-arylation in solution and on DNA. Chemical Science, 2021, 12, 5804-5810.	3.7	41
42	Copper(I)-Catalyzed Enantioselective Intramolecular Aminotrifluoromethylation of O-Homoallyl Benzimidates. Organic Letters, 2019, 21, 4657-4661.	2.4	38
43	Minisci Câ€“H alkylation of N-heteroarenes with aliphatic alcoholsviaÎ²-scission of alkoxy radical intermediates. Organic Chemistry Frontiers, 2019, 6, 3205-3209.	2.3	36
44	Construction of Cyclophane-Braced Peptide Macrocycles via Palladium-Catalyzed Picolinamide-Directed Intramolecular C(sp²)â€“H Arylation. Organic Letters, 2020, 22, 6879-6883.	2.4	35
45	Synthesis of non-classical heteroaryl C-glycosides via Minisci-type alkylation of N-heteroarenes with 4-glycosyl-dihydropyridines. Science China Chemistry, 2020, 63, 1613-1618.	4.2	33
46	Synthesis of Î²-alkynyl Î±-amino acids via palladium-catalyzed alkynylation of unactivated C(sp3)-H bonds. Science China Chemistry, 2015, 58, 1345-1348.	4.2	28
47	Synthesis of Cyclophane-Braced Peptide Macrocycles via Palladium-Catalyzed Intramolecular C(sp³)â€“H Arylation of N-Methyl Alanine at C-Termini. Organic Letters, 2020, 22, 6209-6213.	2.4	24
48	<scp>Pdâ€Catalyzed Orthoâ€Directed</scp> Câ€”H Glycosylation of Arenes Using Nâ€linked Bidentate Auxiliaries. Chinese Journal of Chemistry, 2021, 39, 571-576.	2.6	24
49	Cooperative Stapling of Native Peptides at Lysine and Tyrosine or Arginine with Formaldehyde. Angewandte Chemie - International Edition, 2021, 60, 6646-6652.	7.2	24
50	Radical Câ€“H Arylation of Oxazoles with Aryl Iodides: dppf as an Electron-Transfer Mediator for Cs₂CO₃. Organic Letters, 2018, 20, 1684-1687.	2.4	22
51	Photoredox-Mediated Remote C(sp3)â€“H Heteroarylation of N-Alkyl Sulfonamides. Journal of Organic Chemistry, 2019, 84, 15777-15787.	1.7	22
52	Extendable stapling of unprotected peptides by crosslinking two amines with o-phthalaldehyde. Nature Communications, 2022, 13, 311.	5.8	22
53	Synthesis of <scp>2â€Deoxyâ€Câ€Glycosides</scp> via <scp>Iridiumâ€Catalyzed</scp> sp² and sp³ Câ€”H Glycosylation with Unfunctionalized Glycals^{â€}. Chinese Journal of Chemistry, 2022, 40, 571-576.	2.6	21
54	Palladiumâ€Catalyzed ortho Câ€H Arylation of Benzaldehydes Using orthoâ€Sulfinyl Aniline as Transient Auxiliary. Chemistry - an Asian Journal, 2018, 13, 2423-2426.	1.7	20

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55	Palladium-Catalyzed O - and N -Glycosylation with Glycosyl Chlorides. CCS Chemistry, 2021, 3, 1821-1829.	4.6	20
56	Nitrene-Mediated Pâ€“N Coupling Under Iron Catalysis. CCS Chemistry, 2022, 4, 2258-2266.	4.6	17
57	Î²-Lactam Synthesis via Copper-Catalyzed Directed Aminoalkylation of Unactivated Alkenes with Cyclobutanone O-Benzoyloximes. Organic Letters, 2021, 23, 3620-3625.	2.4	16
58	Synthesis of 2,3â€Fused Indoline Aminals via 4 + 2 Cycloaddition of NHâ€free Benzazetidines with Indoles. Chinese Journal of Chemistry, 2019, 37, 119-125.	2.6	14
59	Construction of Peptide Macrocycles via Palladium-Catalyzed Multiple S-Arylation: An Effective Strategy to Expand the Structural Diversity of Cross-Linkers. Organic Letters, 2021, 23, 8001-8006.	2.4	11
60	Palladium-catalyzed picolinamide-directed iodination of remote ortho-Cî—¸H bonds of arenes: Synthesis of tetrahydroquinolines. Beilstein Journal of Organic Chemistry, 2016, 12, 1243-1249.	1.3	10
61	Photoredox-Mediated Mono- and Difluorination of Remote Unactivated Methylene C(sp³)â€“H Bonds of N-Alkyl Sulfonamides. Organic Letters, 2021, 23, 3631-3635.	2.4	10
62	Construction of Peptide Macrocycles via Radical-Mediated Intramolecular Câ€“H Alkylations. Organic Letters, 2021, 23, 716-721.	2.4	10
63	Construction of Complex Macromulticyclic Peptides via Stitching with Formaldehyde and Guanidine. Journal of the American Chemical Society, 2022, 144, 10080-10090.	6.6	9
64	Stereoselective Synthesis of Câ€Vinyl Glycosides via Palladiumâ€Catalyzed Cî—¸H Glycosylation of Alkenes. Angewandte Chemie, 2021, 133, 19772-19777.	1.6	8
65	Ruthenium-Catalyzed Pyridine-Directed Aryl Câ€“H Glycosylation with Glycosyl Chlorides. Journal of Organic Chemistry, 2022, 87, 8811-8818.	1.7	6
66	Synthesis of reversible PAD4 inhibitors via copper-catalyzed Cî—¸H arylation of benzimidazole. Science China Chemistry, 2019, 62, 592-596.	4.2	4
67	Correction: Photoredox-mediated Minisci Câ€“H alkylation of N-heteroarenes using boronic acids and hypervalent iodine. Chemical Science, 2016, 7, 6573-6573.	3.7	1