

A Practical Strategy for the Structural Diversification of
Palladium-Catalyzed Picolinamide-Directed Remote
C(sp³)-H Bonds

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Palladium-Catalyzed Direct Ethynylation of C(sp ³)â€“H Bonds in Aliphatic Carboxylic Acid Derivatives. <i>Journal of the American Chemical Society</i> , 2011, 133, 12984-12986.	6.6	366
2	Palladium-Catalyzed Alkylation of <i>ortho</i> -C(sp ²)â€“H Bonds of Benzylamide Substrates with Alkyl Halides. <i>Organic Letters</i> , 2011, 13, 4850-4853.	2.4	178
3	Total Synthesis and Structural Revision of the Piperarbornenines via Sequential Cyclobutane Câ€“H Arylation. <i>Journal of the American Chemical Society</i> , 2011, 133, 19076-19079.	6.6	315
4	Heterocycle Formation via Palladium-Catalyzed C-H Functionalization. <i>Synthesis</i> , 2012, 44, 1778-1791.	1.2	154
5	Four-Membered Ring Systems. <i>Progress in Heterocyclic Chemistry</i> , 2012, 24, 115-137.	0.5	2
8	Synthesis of Aromatic Î±â€“Aminoesters: Palladiumâ€“Catalyzed Longâ€“Range Arylation of Primary Cî€“H Bonds. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10808-10811.	7.2	153
9	Activation of a C(sp ³)î€“H Bond by a Transient Î¶â€“Alkylpalladium(II) Complex: Synthesis of Spirooxindoles Through a Palladiumâ€“Catalyzed Domino Carbopalladation/C(sp ³)î€“C(sp ³) Bondâ€“Forming Process. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11561-11565.	7.2	184
10	Catalytic Functionalization of Methyl Group on Silicon: Iridium-Catalyzed C(sp ³)â€“H Borylation of Methylchlorosilanes. <i>Journal of the American Chemical Society</i> , 2012, 134, 17416-17419.	6.6	90
11	Pd(II)-Catalyzed Primary-C(sp ³)â€“H Acyloxylation at Room Temperature. <i>Organic Letters</i> , 2012, 14, 3724-3727.	2.4	166
12	Catalytic Functionalization of Unactivated sp ³ Câ€“H Bonds via <i>exo</i> -Directing Groups: Synthesis of Chemically Differentiated 1,2-Diols. <i>Journal of the American Chemical Society</i> , 2012, 134, 16991-16994.	6.6	203
13	Palladium-Catalyzed Alkenylation and Alkynylation of <i>ortho</i> -C(sp ²)â€“H Bonds of Benzylamine Picolinamides. <i>Organic Letters</i> , 2012, 14, 2948-2951.	2.4	97
14	Aluminum Triflate as a Powerful Catalyst for Direct Amination of Alcohols, Including Electronâ€“Withdrawing Groupâ€“Substituted Benzhydrols. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 2447-2452.	2.1	61
17	Cî€“H Bond Functionalization: Emerging Synthetic Tools for Natural Products and Pharmaceuticals. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8960-9009.	7.2	2,669
18	Synthesis of Hexahydroindoles by Intramolecular Cî€“H Alkenylation: Application to the Synthesis of the Core of Aeruginosins. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10399-10402.	7.2	59
19	Rutheniumâ€“Catalyzed Carbonylation of <i>ortho</i> Cî€“H Bonds in Arylacetamides: Cî€“H Bond Activation Utilizing a Bidentateâ€“Chelation System. <i>ChemCatChem</i> , 2012, 4, 1733-1736.	1.8	41
20	Heterocycle Synthesis via Direct Câ€“H/Nâ€“H Coupling. <i>Journal of the American Chemical Society</i> , 2012, 134, 7-10.	6.6	434
21	Palladium-Catalyzed Direct <i>ortho</i> -Alkynylation of Aromatic Carboxylic Acid Derivatives. <i>Organic Letters</i> , 2012, 14, 354-357.	2.4	154
22	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

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24	Pd-Catalyzed Arylation/Oxidation of Benzylic Câ€“H Bond. <i>Organic Letters</i> , 2012, 14, 1238-1241.	2.4	87
25	Catalytic Intermolecular C-alkylation of 1,2-Diketones with Simple Olefins: A Recyclable Directing Group Strategy. <i>Journal of the American Chemical Society</i> , 2012, 134, 13954-13957.	6.6	80
26	Palladium-Catalyzed Cascade Process Consisting of Isocyanide Insertion and Benzylic C(sp ³)â€“H Activation: Concise Synthesis of Indole Derivatives. <i>Organic Letters</i> , 2012, 14, 4270-4273.	2.4	173
27	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
28	<i>N</i> -Tosylcarboxamide as a Transformable Directing Group for Pd-Catalyzed Câ€“H <i>Ortho</i> -Arylation. <i>Organic Letters</i> , 2012, 14, 1827-1829.	2.4	68
29	Improved Protocol for Indoline Synthesis via Palladium-Catalyzed Intramolecular C(sp ²)â€“H Amination. <i>Organic Letters</i> , 2012, 14, 2944-2947.	2.4	148
33	Palladium-Catalyzed Amidation by Chemoselective C(sp ³)â€“H Activation: Concise Route to Oxindoles Using a Carbamoyl Chloride Precursor. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2763-2766.	7.2	88
34	Nonnatural Amino Acid Synthesis by Using Carbonâ€“Hydrogen Bond Functionalization Methodology. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5188-5191.	7.2	347
35	Sequential C-arylation and Olefination: Total Synthesis of the Proposed Structure of Pipericyclobutanamide...A. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7507-7510.	7.2	227
36	C-Activation: A Complementary Tool in the Total Synthesis of Complex Natural Products. <i>Chemistry - A European Journal</i> , 2012, 18, 9452-9474.	1.7	492
37	Palladium(0)-catalyzed cyclopropane Câ€“H bond functionalization: synthesis of quinoline and tetrahydroquinoline derivatives. <i>Chemical Science</i> , 2012, 3, 244-248.	3.7	100
38	Câ€“H Functionalization of Cyclopropanes: A Practical Approach Employing a Picolinamide Auxiliary. <i>Organic Letters</i> , 2013, 15, 4394-4397.	2.4	83
39	1,2,3-Triazoles as versatile directing group for selective sp ² and sp ³ Câ€“H activation: cyclization vs substitution. <i>Chemical Science</i> , 2013, 4, 3712.	3.7	214
40	Palladium-catalyzed para-selective arylation of phenols with aryl iodides in water. <i>Chemical Communications</i> , 2013, 49, 7653.	2.2	59
42	Direct Bis-Arylation of Cyclobutanecarboxamide via Double Câ€“H Activation: An Auxiliary-Aided Diastereoselective Pd-Catalyzed Access to Trisubstituted Cyclobutane Scaffolds Having Three Contiguous Stereocenters and an All-cis Stereochemistry. <i>Journal of Organic Chemistry</i> , 2013, 78, 11911-11934.	1.7	57
43	An Efficient Palladium-Catalyzed C-alkoxylation of Unactivated Methylene and Methyl Groups with Cyclic Hypervalent Iodine (I ³⁺) Oxidants. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13606-13610.	7.2	110
44	Copper-Mediated Dehydrogenative Biaryl Coupling of Naphthylamines and 1,3-Azoles. <i>Journal of Organic Chemistry</i> , 2013, 78, 11045-11052.	1.7	114

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45	Palladium-Catalyzed Direct Functionalization of 2-Aminobutanoic Acid Derivatives: Application of a Convenient and Versatile Auxiliary. <i>Angewandte Chemie</i> , 2013, 125, 12374-12377.	1.6	48
47	Catalytic Functionalization of C(sp ²)-H and C(sp ³)-H Bonds by Using Bidentate Directing Groups. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11726-11743.	7.2	1,886
48	Palladium-Catalyzed Through-Space C(sp ³)-H and C(sp ²)-H Bond Activation by 1,4-Palladium Migration: Efficient Synthesis of [3,4]-Fused Oxindoles. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12385-12389.	7.2	168
49	Scope and Limitations of Auxiliary-Assisted, Palladium-Catalyzed Arylation and Alkylation of sp ² - and sp ³ -C-H Bonds. <i>Journal of Organic Chemistry</i> , 2013, 78, 9689-9714.	1.7	228
50	Iron-Catalyzed Oxidative C ₁ H/C ₂ H Cross-Coupling: An Efficient Route to Quaternary Amino Acid Derivatives. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12942-12945.	7.2	116
51	The Redox-Neutral Approach to C ₁ H Functionalization. <i>Chemistry - A European Journal</i> , 2013, 19, 13274-13287.	1.7	278
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53	Four-Membered Ring Systems. <i>Progress in Heterocyclic Chemistry</i> , 2013, 25, 71-96.	0.5	2
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55	Palladium-catalyzed N-(2-pyridyl)sulfonyl-directed C(sp ³)-H arylation of amino acid derivatives. <i>Chemical Science</i> , 2013, 4, 175-179.	3.7	218
56	Unveiling the Reactivity of Propargylic Hydroperoxides under Gold Catalysis. <i>Journal of the American Chemical Society</i> , 2013, 135, 898-905.	6.6	56
57	Ruthenium-catalyzed direct arylation of C-H bonds in aromatic amides containing a bidentate directing group: significant electronic effects on arylation. <i>Chemical Science</i> , 2013, 4, 664-670.	3.7	187
58	Synthesis of Imides by Palladium-Catalyzed C ₁ H Functionalization of Aldehydes with Secondary Amides. <i>Chemistry - A European Journal</i> , 2013, 19, 1129-1133.	1.7	23
59	Synthesis of Primary and Secondary Alkylboronates through Site-Selective C(sp ³)-H Activation with Silica-Supported Monophosphine-Ir Catalysts. <i>Journal of the American Chemical Society</i> , 2013, 135, 2947-2950.	6.6	122
60	Nickel-Catalyzed Direct Alkylation of C-H Bonds in Benzamides and Acrylamides with Functionalized Alkyl Halides via Bidentate-Chelation Assistance. <i>Journal of the American Chemical Society</i> , 2013, 135, 5308-5311.	6.6	382
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62	Palladium-Catalyzed Picolinamide-Directed Alkylation of Unactivated C(sp ³)-H Bonds with Alkyl Iodides. <i>Journal of the American Chemical Society</i> , 2013, 135, 2124-2127.	6.6	357
63	Enantioselective fluoride ring opening of aziridines enabled by cooperative Lewis acid catalysis. <i>Tetrahedron</i> , 2013, 69, 5702-5709.	1.0	95

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66	Ruthenium-catalyzed ortho-Câ€“H bond alkylation of aromatic amides with Î±,Î²-unsaturated ketones via bidentate-chelation assistance. <i>Chemical Science</i> , 2013, 4, 2201.	3.7	190
68	Auxiliary-Enabled Pd-Catalyzed Direct Arylation of Methylene C(sp ³)â€“H Bond of Cyclopropanes: Highly Diastereoselective Assembling of Di- and Trisubstituted Cyclopropanecarboxamides. <i>Organic Letters</i> , 2013, 15, 3238-3241.	2.4	88
69	Iodination of Remote <i>Ortho</i>-Câ€“H Bonds of Arenes via Directed S_EAr: A Streamlined Synthesis of Tetrahydroquinolines. <i>Organic Letters</i> , 2013, 15, 3440-3443.	2.4	48
73	Synthesis of phenanthridines via palladium-catalyzed picolinamide-directed sequential Câ€“H functionalization. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 891-899.	1.3	32
77	Cobaltâ€“Catalyzed, Aminoquinolineâ€“Directed C(sp ²)i€“H Bond Alkenylation by Alkynes. <i>Angewandte Chemie</i> , 2014, 126, 10373-10376.	1.6	137
78	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
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82	Lanthanum(III) Triflate Catalyzed Direct Amidation of Esters. <i>Organic Letters</i> , 2014, 16, 2018-2021.	2.4	137
83	Synthesis of cis-3-arylated cycloalkylamines through palladium-catalyzed methylene sp ³ carbonâ€“hydrogen bond activation. <i>Tetrahedron Letters</i> , 2014, 55, 2838-2841.	0.7	26
84	Palladiumâ€“Catalyzed Picolinamideâ€“Directed Acetoxylation of Unactivated Î³â€“C(<i>sp</i>³)i€“H Bonds of Alkylamines. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 1544-1548.	2.1	80
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86	Synthesis of Carbazoles by Copper-Catalyzed Intramolecular Câ€“H/Nâ€“H Coupling. <i>Organic Letters</i> , 2014, 16, 2892-2895.	2.4	193
87	Ci€“H Bond Arylation in the Synthesis of Aryltetralin Lignans: A Short Total Synthesis of Podophyllotoxin. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3115-3119.	7.2	130
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89	Recent trends in Pd-catalyzed remote functionalization of carbonyl compounds. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 233-241.	1.5	96

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93	Copper-catalyzed ortho-Câ€“H amination of protected anilines with secondary amines. <i>Chemical Communications</i> , 2014, 50, 2801.	2.2	122
94	Palladium catalyzed acetoxylation of benzylic Câ€“H bonds using a bidentate picolinamide directing group. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 1405.	1.5	41
95	Ligand-enabled cross-coupling of C(sp ³)â€“H bonds with arylboron reagents via Pd(II)/Pd(0) catalysis. <i>Nature Chemistry</i> , 2014, 6, 146-150.	6.6	212
96	Nickel-Catalyzed Direct Arylation of C(sp ³)â€“H Bonds in Aliphatic Amides via Bidentate-Chelation Assistance. <i>Journal of the American Chemical Society</i> , 2014, 136, 898-901.	6.6	371
97	Site-Selective C(sp ³)â€“H Functionalization of Di-, Tri-, and Tetrapeptides at the N-Terminus. <i>Journal of the American Chemical Society</i> , 2014, 136, 16940-16946.	6.6	240
98	Copper-Mediated Direct Alkoxylation of Arenes Using an <i>N</i>,<i>O</i>-Bidentate Directing System. <i>Journal of Organic Chemistry</i> , 2014, 79, 10399-10409.	1.7	59
99	Synthesis of alkylidene pyrrolo[3,4-b]pyridin-7-one derivatives via Rh ^{III} -catalyzed cascade oxidative alkenylation/annulation of picolinamides. <i>Chemical Communications</i> , 2014, 50, 6105-6107.	2.2	45
100	Sulfonamideâ€“Promoted Palladium(II)-Catalyzed Alkylation of Unactivated Methylene C(sp ³)â€“H Bonds with Alkyl Iodides. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11950-11954.	7.2	131
101	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
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103	Cobalt-Catalyzed Direct Carbonylation of Aminoquinoline Benzamides. <i>Organic Letters</i> , 2014, 16, 4688-4690.	2.4	199
104	Copper(II)-catalyzed direct thiolation of Câ€“H bonds in aromatic amides with aryl and aliphatic thiols. <i>Tetrahedron</i> , 2014, 70, 8730-8736.	1.0	51
106	Cobaltâ€“Catalyzed, Aminoquinolineâ€“Directed C(sp ²)â€“H Bond Alkenylation by Alkynes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10209-10212.	7.2	458
107	Cobalt-Catalyzed, Aminoquinoline-Directed Coupling of sp ² Câ€“H Bonds with Alkenes. <i>Organic Letters</i> , 2014, 16, 4684-4687.	2.4	226
108	Regio- and Stereospecific Synthesis of C-3 Functionalized Proline Derivatives by Palladium Catalyzed Directed C(sp ³)â€“H Arylation. <i>Organic Letters</i> , 2014, 16, 4956-4959.	2.4	134

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109	Copper-Mediated Hydroxylation of Arenes and Heteroarenes Directed by a Removable Bidentate Auxiliary. <i>Organic Letters</i> , 2014, 16, 3904-3907.	2.4	120
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112	Palladium-Catalyzed Aerobic Oxidative Câ€“H Olefination with Removable 1,2,3-Triazole Directing Group. <i>Organic Letters</i> , 2014, 16, 4448-4451.	2.4	66
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115	Highly site-selective sequential alkenylation of oxalyl amide protected phenylpropylamine derivatives via a seven-membered palladacycle. <i>Chemical Science</i> , 2014, 5, 4962-4967.	3.7	66
116	Pd-Containing Organopolyoxometalates Derived from Dawson Polyoxometalate [P ₂ W ₁₅ V ₃ O ₆₂] ⁹⁻ : Lewis Acidity and Dual Site Catalysis. <i>Organic Letters</i> , 2014, 16, 3860-3863.	2.4	16
117	Nickelâ€“Catalyzed Siteâ€“Selective Amidation of Unactivated C(sp ³)â€“H Bonds. <i>Chemistry - A European Journal</i> , 2014, 20, 9530-9533.	1.7	134
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119	A general and practical palladium-catalyzed monoarylation of Î²-methyl C(sp ³)â€“H of alanine. <i>Chemical Communications</i> , 2014, 50, 13924-13927.	2.2	78
120	Nickel-catalyzed chelation-assisted direct arylation of unactivated C(sp ³)â€“H bonds with aryl halides. <i>Chemical Communications</i> , 2014, 50, 3944-3946.	2.2	130
121	Câ€“H Functionalization in the Synthesis of Amino Acids and Peptides. <i>Chemical Reviews</i> , 2014, 114, 8775-8806.	23.0	501
123	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
124	Palladium-catalyzed picolinamide-directed halogenation of ortho Câ€“H bonds of benzylamine substrates. <i>Tetrahedron</i> , 2014, 70, 4197-4203.	1.0	39
125	Pd(<i>scp</i>)-Catalyzed arylation of unactivated methylene C(sp ³)â€“H bonds with aryl halides using a removable auxiliary. <i>Chemical Communications</i> , 2014, 50, 8353-8355.	2.2	85
126	Unlocking natureâ€™s CH bonds. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 4445-4452.	1.4	22
128	Direct Cyanation of Picolinamides Using K ₄ [Fe(CN) ₆] as the Cyanide Source. <i>Chemistry Letters</i> , 2015, 44, 743-745.	0.7	23

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129	Ligand-Enabled Catalytic C-H Arylation of Aliphatic Amines by a Four-Membered Ring Cyclopalladation Pathway. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15840-15844.	7.2	110
130	Readily Removable Directing Group Assisted Chemo- and Regioselective C(sp ³) ₃ -H Activation by Palladium Catalysis. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13686-13690.	7.2	53
131	Selectfluor-Bu ₄ N-Mediated C(sp ³) ₃ -H Oxidation in Aqueous Media: Synthesis of β -isoxazolines from Oximes. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 5084-5088.	1.2	30
133	Ligand-Enabled Catalytic C-H Arylation of Aliphatic Amines by a Four-Membered Ring Cyclopalladation Pathway. <i>Angewandte Chemie</i> , 2015, 127, 16066-16070.	1.6	28
134	Palladium-Catalyzed Arylation of Unactivated β -Methylene C(sp ³) ₃ -H and γ -C-H Bonds with an Oxazoline-Carboxylate Auxiliary. <i>Chemistry - A European Journal</i> , 2015, 21, 17503-17507.	1.7	59
135	Divergent Synthesis of Aeruginosins Based on a C(sp ³) ₃ -H Activation Strategy. <i>Chemistry - A European Journal</i> , 2015, 21, 9370-9379.	1.7	40
136	Transition metal-catalyzed C-H bond functionalizations by the use of diverse directing groups. <i>Organic Chemistry Frontiers</i> , 2015, 2, 1107-1295.	2.3	1,379
137	Synthesis of β -alkynyl α -amino acids via palladium-catalyzed alkynylation of unactivated C(sp ³)-H bonds. <i>Science China Chemistry</i> , 2015, 58, 1345-1348.	4.2	28
138	Auxiliary-Directed Pd-Catalyzed β -C(sp ³) ₃ -H Bond Activation of α -Aminobutanoic Acid Derivatives. <i>Organic Letters</i> , 2015, 17, 6094-6097.	2.4	50
139	Pd-Catalyzed Directed <i>ortho</i> -C-H Alkenylation of Phenylalanine Derivatives. <i>Journal of Organic Chemistry</i> , 2015, 80, 3321-3331.	1.7	39
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