

# Complex N-Heterocycle Synthesis via Iron-Catalyzed, D

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Citation Report

#	ARTICLE	IF	CITATIONS
4	Enantioconvergent Cross-Couplings of Racemic Alkylmetal Reagents with Unactivated Secondary Alkyl Electrophiles: Catalytic Asymmetric Negishi $\alpha$ -Alkylations of $\alpha$ -Boc-pyrrolidine. <i>Journal of the American Chemical Society</i> , 2013, 135, 10946-10949.	6.6	166
5	Synthesis, Characterization, and Catalytic Activity of Nickel(II) Alkyl Complexes Supported by Pyrrole-Diphosphine Ligands. <i>Organometallics</i> , 2013, 32, 4656-4663.	1.1	71
6	Intramolecular C(sp <sup>3</sup> )-H amination. <i>Chemical Science</i> , 2013, 4, 4092.	3.7	303
7	Selective Intermolecular Amination of C <sub>1</sub> -H Bonds at Tertiary Carbon Centers. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11343-11346.	7.2	130
8	Reductive amination of tertiary anilines and aldehydes. <i>Chemical Communications</i> , 2013, 49, 8866.	2.2	10
9	An aminated reaction. <i>Nature Chemistry</i> , 2013, 5, 736-738.	6.6	34
10	Cobalt Precursors for High-Throughput Discovery of Base Metal Asymmetric Alkene Hydrogenation Catalysts. <i>Science</i> , 2013, 342, 1076-1080.	6.0	346
11	Activation of carbon-hydrogen bonds and dihydrogen by 1,2-CH-addition across metal-heteroatom bonds. <i>Dalton Transactions</i> , 2013, 42, 16646.	1.6	76
12	Azadipyrromethene Complexes of $d^{8-9}$ Metal Centers: Rhodium(I), Iridium(I), Palladium(II), and Platinum(II). <i>Inorganic Chemistry</i> , 2013, 52, 13048-13057.	1.9	21
13	Nanoscale Fe <sub>2</sub> O <sub>3</sub> -Based Catalysts for Selective Hydrogenation of Nitroarenes to Anilines. <i>Science</i> , 2013, 342, 1073-1076.	6.0	868
14	Comparison of the Reactivity of Nonheme Iron(IV)-Oxo versus Iron(IV)-Imido Complexes: Which is the Better Oxidant?. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12288-12292.	7.2	88
15	Base Metal Catalysts for Photochemical C-H Borylation That Utilize Metal-Metal Cooperativity. <i>Journal of the American Chemical Society</i> , 2013, 135, 17258-17261.	6.6	235
17	Rhodium-catalyzed intermolecular C-H amination of simple hydrocarbons using the shelf-stable nonafluorobutanesulfonyl azide. <i>Chemical Communications</i> , 2013, 49, 9194.	2.2	27
18	Mechanism and Enantioselectivity of Dirhodium-Catalyzed Intramolecular C-H Amination of Sulfamate. <i>Journal of Organic Chemistry</i> , 2013, 78, 12460-12468.	1.7	37
19	Ag-Promoted Azido-Carbocyclization of Activated Alkenes via C-H Bond Cleavage. <i>Chemistry - an Asian Journal</i> , 2013, 8, 2932-2935.	1.7	81
20	Stable Aniliny Radical Coordinated to Nickel: X-ray Crystal Structure and Characterization. <i>Chemistry - A European Journal</i> , 2013, 19, 16707-16721.	1.7	30
21	Arene C-H Amination at Nickel in Terphenyl-Diphosphine Complexes with Labile Metal-Arene Interactions. <i>Chemistry - A European Journal</i> , 2013, 19, 16453-16460.	1.7	45
26	A Short Asymmetric Synthesis of Octahydroindole Derivatives by Application of Catalytic C(sp <sup>3</sup> )-H Amination Reaction. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 66-79.	1.2	15

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28	A <i>cis</i> -Divacant Octahedral and Mononuclear Iron(IV) Imide. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14139-14143.	7.2	74
29	Coordination between cobalt (II) ion and carbonyl group in acetone probed by using DAOSD approach. <i>Journal of Molecular Structure</i> , 2014, 1069, 217-222.	1.8	19
30	Ruthenium-Catalyzed C7 Amidation of Indoline C-H Bonds with Sulfonyl Azides. <i>Chemistry - A European Journal</i> , 2014, 20, 3606-3609.	1.7	110
31	Synthesis of Saturated N-Heterocycles. <i>Journal of Organic Chemistry</i> , 2014, 79, 2809-2815.	1.7	242
32	Direct nitration and azidation of aliphatic carbons by an iron-dependent halogenase. <i>Nature Chemical Biology</i> , 2014, 10, 209-215.	3.9	113
34	Cationic iron(II) complexes of the mixed cyclopentadienyl (Cp) and the N-heterocyclic carbene (NHC) ligands as effective precatalysts for the hydrosilylation of carbonyl compounds. <i>Journal of Organometallic Chemistry</i> , 2014, 762, 81-87.	0.8	31
35	Cooperative Effect of Two Metals: CoPd(OAc) <sub>4</sub> -Catalyzed C-H Amination and Aziridination. <i>Chemistry - A European Journal</i> , 2014, 20, 5240-5243.	1.7	45
36	Terminal Imido Rhodium Complexes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5614-5618.	7.2	33
37	Direct Synthesis of 1,4-Diols from Alkenes by Iron-Catalyzed Aerobic Hydration and C-H Hydroxylation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2730-2734.	7.2	80
38	Dirhodium(II) Carboxylate Catalyzed Formation of 1,2,3-Trisubstituted Indoles from Styryl Azides. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 785-788.	7.2	71
39	Copper-Catalyzed Intermolecular Trifluoromethylazidation of Alkenes: Convenient Access to CF <sub>3</sub> -Containing Alkyl Azides. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1881-1886.	7.2	288
40	Rhodium(III)-Catalyzed Intermolecular Amidation with Azides via C(sp <sup>3</sup> )-H Functionalization. <i>Journal of Organic Chemistry</i> , 2014, 79, 5379-5385.	1.7	115
41	Free-Radical Cascade Alkylarylation of Alkenes with Simple Alkanes: Highly Efficient Access to Oxindoles via Selective (sp <sup>3</sup> )C-H and (sp <sup>2</sup> )C-H Bond Functionalization. <i>Organic Letters</i> , 2014, 16, 382-385.	2.4	238
42	Mechanistic Studies of the Rhodium-Catalyzed Direct C-H Amination Reaction Using Azides as the Nitrogen Source. <i>Journal of the American Chemical Society</i> , 2014, 136, 2492-2502.	6.6	256
43	Iron-mediated intermolecular N-group transfer chemistry with olefinic substrates. <i>Chemical Science</i> , 2014, 5, 1526-1532.	3.7	166
44	Hydrogen-Bond-Assisted Controlled C-H Functionalization via Adaptive Recognition of a Purine Directing Group. <i>Journal of the American Chemical Society</i> , 2014, 136, 1132-1140.	6.6	146
45	1, <i>n</i> -Hydrogen-Atom Transfer (HAT) Reactions in Which <i>n</i> : An Updated Inventory. <i>Chemistry - A European Journal</i> , 2014, 20, 16034-16059.	1.7	197
46	Disilaferracycle Dicarbonyl Complex Containing Weakly Coordinated $\hat{\text{I}}^{\text{2}}\text{-(H-Si)}$ Ligands: Application to C-H Functionalization of Indoles and Arenes. <i>Organometallics</i> , 2014, 33, 5936-5939.	1.1	54

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48	Introducing asymmetry in tetradentate azadipyrromethene chromophores: a systematic study of the impact on electronic and photophysical properties. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22207-22221.	1.3	9
49	Three-Coordinate Cobalt(IV) and Cobalt(V) Imido Complexes with N-Heterocyclic Carbene Ligation: Synthesis, Structure, and Their Distinct Reactivity in C-H Bond Amination. <i>Journal of the American Chemical Society</i> , 2014, 136, 15525-15528.	6.6	115
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51	Low-Coordinate Iron(II) Complexes of a Bulky Bis(carbene)borate Ligand. <i>Organometallics</i> , 2014, 33, 5654-5659.	1.1	22
52	Ru-catalyzed direct C-H amidation of 2-arylbenzo[d]thiazoles with sulfonyl azides. <i>Tetrahedron</i> , 2014, 70, 6742-6748.	1.0	27
53	Synthesis and characterization of iron complexes based on bis-phosphinite PONOP and bis-phosphite PONOP pincer ligands. <i>Journal of Organometallic Chemistry</i> , 2014, 772-773, 60-67.	0.8	20
54	Iron(II)-Catalyzed Intermolecular Amino-Oxygenation of Olefins through the N=O Bond Cleavage of Functionalized Hydroxylamines. <i>Journal of the American Chemical Society</i> , 2014, 136, 13186-13189.	6.6	170
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57	Copper(II) Anilides in <sup>sp</sup> 3 C-H Amination. <i>Journal of the American Chemical Society</i> , 2014, 136, 10930-10940.	6.6	99
58	Iron(III)-salan complexes catalysed highly enantioselective fluorination and hydroxylation of $\hat{I}^2$ -keto esters and N-Boc oxindoles. <i>Chemical Communications</i> , 2014, 50, 7870.	2.2	104
59	Prodigiosin Analogue Designed for Metal Coordination: Stable Zinc and Copper Pyrrolyldipyrins. <i>Inorganic Chemistry</i> , 2014, 53, 7518-7526.	1.9	27
60	Unprecedented Catalytic Activity of Fe(NO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O: Regioselective Synthesis of 2-Nitroimidazopyridines via Oxidative Amination. <i>Organic Letters</i> , 2014, 16, 4630-4633.	2.4	89
61	Strategic blinking. <i>Nature Chemistry</i> , 2014, 6, 663-664.	6.6	14
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63	A Free Radical Cascade Cyclization of Isocyanides with Simple Alkanes and Alcohols. <i>Organic Letters</i> , 2014, 16, 3396-3399.	2.4	170
64	C-H Bond Activation during and after the Reactions of a Metallacyclic Amide with Silanes: Formation of a $\hat{I}^4$ -Alkylidene Hydride Complex, Its H-D Exchange, and $\hat{I}^2$ -H Abstraction by a Hydride Ligand. <i>Chemistry - A European Journal</i> , 2014, 20, 6033-6039.		4

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66	Formation of Heterobimetallic Zirconium/Cobalt Diimido Complexes via a Four-Electron Transformation. <i>Inorganic Chemistry</i> , 2014, 53, 10021-10023.	1.9	46
67	Silver-catalysed direct amination of unactivated C-H bonds of functionalized molecules. <i>Nature Communications</i> , 2014, 5, 4707.	5.8	150
68	Green synthesis of nitriles using non-noble metal oxides-based nanocatalysts. <i>Nature Communications</i> , 2014, 5, 4123.	5.8	205
69	sp <sup>3</sup> C-H oxidation by remote H-radical shift with oxygen- and nitrogen-radicals: a recent update. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 4051-4060.	1.5	221
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72	Transition-Metal-Free Synthesis of Substituted Pyridines via Ring Expansion of 2-Allyl-2-azirines. <i>Organic Letters</i> , 2014, 16, 3432-3435.	2.4	104
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76	Palladium-Catalyzed Formation of N-Heteroarenes from Nitroarenes using Molybdenum Hexacarbonyl as the Source of Carbon Monoxide. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 3463-3468.	2.1	57
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82	Visible-Light-Catalyzed Direct Benzylic C(sp <sup>3</sup> ) <sub>2</sub> -H Amination Reaction by Cross-Dehydrogenative Coupling. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14875-14879.	7.2	150
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85	Mn(III)-mediated phosphonation-azidation of alkenes: a facile synthesis of $\beta$ -azidophosphonates. <i>Chemical Communications</i> , 2015, 51, 11240-11243.	2.2	82
86	Mechanistic Investigations of the AuCl <sub>3</sub> -Catalyzed Nitrene Insertion into an Aromatic C-H Bond of Mesitylene. <i>Journal of Organic Chemistry</i> , 2015, 80, 5795-5803.	1.7	10
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88	Rh <sub>2</sub> (II)-Catalyzed Ester Migration to Afford 3-Indoles from Trisubstituted Styryl Azides. <i>Organic Letters</i> , 2015, 17, 802-805.	2.4	36

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105	Ohne Umwege - direkte Aminierung von Aliphaten. Nachrichten Aus Der Chemie, 2015, 63, 544-548.	0.0	0
106	Density Functional Theory Study of the Mechanisms of Iron-Catalyzed Intramolecular $\text{C-H}$ Amination [1,2]-Shift Tandem Reactions of Aryl Azides. Organometallics, 2015, 34, 1129-1136.	1.1	14
107	Transition-Metal-Catalyzed $\text{C-N}$ Bond Forming Reactions Using Organic Azides as the Nitrogen Source: A Journey for the Mild and Versatile $\text{C-H}$ Amination. Accounts of Chemical Research, 2015, 48, 1040-1052.	7.6	830

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109	Coordinating activation strategy for C(sp <sup>3</sup> )–H/C(sp <sup>3</sup> )–H cross-coupling to access <sup>1,2</sup> -aromatic <sup>1,2</sup> -amino acids. <i>Nature Communications</i> , 2015, 6, 8404.	5.8	73
110	A manganese catalyst for highly reactive yet chemoselective intramolecular C(sp <sup>3</sup> )–H amination. <i>Nature Chemistry</i> , 2015, 7, 987-994.	6.6	236
111	Three-Coordinate Iron(IV) Bisimido Complexes with Aminocarbene Ligation: Synthesis, Structure, and Reactivity. <i>Journal of the American Chemical Society</i> , 2015, 137, 14196-14207.	6.6	88
112	Intermolecular Hydroalkoxylation of Terminal Alkynes Catalyzed by a Dipyrinato Rhodium(I) Complex with Unusual Selectivity. <i>Organometallics</i> , 2015, 34, 4312-4317.	1.1	20
113	Palladium-catalyzed cross-coupling reaction of azides with isocyanides. <i>Chemical Communications</i> , 2015, 51, 16312-16315.	2.2	53
114	A Co(II)-catalyzed aerobic intramolecular C–O bond formation via selective (sp <sup>3</sup> )C–H bond activation: facile access to dihydro-benzoxazinone derivatives. <i>Tetrahedron Letters</i> , 2015, 56, 482-484.	0.7	26
115	Contiguous radical pivaloyloxymethylation–directed C(sp <sup>3</sup> )–H iodination of N-tosyl cycloalkanecarbaldehyde. <i>Tetrahedron Letters</i> , 2015, 56, 3086-3089.	0.7	5
116	[Fe(F <sub>20</sub> TPP)Cl]–Catalyzed Amination with Arylamines and {[Fe(F <sub>20</sub> TPP)(NAr)](Ph <sub>3</sub> NAr)} Intermediate Assessed by High-Resolution ESI–MS and DFT Calculations. <i>Chemistry - an Asian Journal</i> , 2015, 10, 100-105.	1.7	38
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123	Rh- and Cu-Cocatalyzed Aerobic Oxidative Approach to Quinazolines via [4 + 2] C–H Annulation with Alkyl Azides. <i>Organic Letters</i> , 2016, 18, 2150-2153.	2.4	83
124	Copper(II)-Mediated Intermolecular C(sp <sup>2</sup> )–H Amination of Benzamides with Electron-Rich Anilines. <i>Journal of Organic Chemistry</i> , 2016, 81, 4295-4303.	1.7	43
125	New amination strategies based on nitrogen-centered radical chemistry. <i>Chemical Society Reviews</i> , 2016, 45, 3069-3087.	18.7	524
126	Synthesis of 2-Aryl- and 2-Vinylpyrrolidines via Copper-Catalyzed Coupling of Styrenes and Dienes with Potassium <sup>1,2</sup> -Aminoethyl Trifluoroborates. <i>Organic Letters</i> , 2016, 18, 2515-2518.	2.4	42



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128	Heterogeneous Palladium-Catalyzed Hydrogen-Transfer Cyclization of Nitroacetophenones with Benzylamines: Access to C-N Bonds. <i>ChemCatChem</i> , 2016, 8, 3565-3569.	1.8	22
130	Control of the Chemoselectivity of Metal-N-Aryl Nitrene Reactivity: C-H Bond Amination versus Electrocyclization. <i>Journal of the American Chemical Society</i> , 2016, 138, 13271-13280.	6.6	68
131	Aliphatic C-H azidation through a peroxydisulfate induced radical pathway. <i>Organic Chemistry Frontiers</i> , 2016, 3, 1326-1330.	2.3	24
132	Benzazetidone synthesis via palladium-catalysed intramolecular C-H amination. <i>Nature Chemistry</i> , 2016, 8, 1131-1136.	6.6	100
133	An Unusual Cobalt Azide Adduct That Produces a Nitrene Species for Carbon-Hydrogen Insertion Chemistry. <i>Inorganic Chemistry</i> , 2016, 55, 7997-8002.	1.9	38
134	$\lambda^2$ -Meso-Covalently Linked Novel Dipalladium(II) Bis-Dipyrrin Complex. <i>ChemistrySelect</i> , 2016, 1, 1220-1224.	0.7	4
135	Rhodium(II)-Catalyzed Undirected and Selective C(sp <sup>2</sup> )-H Amination en Route to Benzoxazolones. <i>ACS Catalysis</i> , 2016, 6, 6520-6524.	5.5	28
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139	Silver-catalysed azide-alkyne cycloaddition (AgAAC): assessing the mechanism by density functional theory calculations. <i>Royal Society Open Science</i> , 2016, 3, 160090.	1.1	15
140	Iron-catalyzed decarbonylation initiated [2 + 2 + m] annulation of benzene-linked 1,n-enynes with aliphatic aldehydes. <i>Organic Chemistry Frontiers</i> , 2016, 3, 1509-1513.	2.3	48
141	Copper-catalyzed intermolecular chloroazidation of $\lambda^1, \lambda^2$ -unsaturated amides. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7463-7467.	1.5	29
142	Triiodide-Mediated I-Amination of Secondary C-H Bonds. <i>Angewandte Chemie</i> , 2016, 128, 10128-10132.	1.6	76
143	Triiodide-Mediated I-Amination of Secondary C-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9974-9978.	7.2	226
144	Spin-state diversity in a series of Co(II) PNP pincer bromide complexes. <i>Dalton Transactions</i> , 2016, 45, 17910-17917.	1.6	32
145	Oxidative amination of benzylic alkanes with nitrobenzene derivatives as nitrogen sources. <i>Tetrahedron Letters</i> , 2016, 57, 5872-5876.	0.7	6



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146	C(sp <sup>3</sup> )â€“H Alkenylation Catalyzed by Cationic Alkylhafnium Complexes: Stereoselective Synthesis of Trisubstituted Alkenes from 2,6-Dimethylpyridines and Internal Alkynes. <i>Organometallics</i> , 2016, 35, 3816-3827.	1.1	21
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