

Iron-Catalyzed C–H Bond Activation

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Atomic-Resolution Transmission Electron Microscopic Movies for Study of Organic Molecules, Assemblies, and Reactions: The First 10 Years of Development. <i>Accounts of Chemical Research</i> , 2017, 50, 1281-1292.	7.6	65
2	Manganese(I)-Catalyzed C-H 3,3-Difluoroallylation of Pyridones and Indoles. <i>Organic Letters</i> , 2017, 19, 3159-3162.	2.4	82
3	Palladium-Catalyzed Removable 8-Aminoquinoline Assisted Chemo- and Regioselective Oxidative $C(sp^2)$ -C-H/ $C(sp^3)$ -C-H Cross-Coupling of Ferrocene with Toluene Derivatives. <i>Organic Letters</i> , 2017, 19, 5960-5963.	2.4	40
4	Abiotic dechlorination of chlorinated ethenes in natural clayey soils: Impacts of mineralogy and temperature. <i>Journal of Contaminant Hydrology</i> , 2017, 206, 10-17.	1.6	13
5	Palladium-catalyzed direct sulfonylation of C-H bonds with the insertion of sulfur dioxide. <i>Chemical Communications</i> , 2017, 53, 12548-12551.	2.2	62
6	Iron-Catalyzed Regioselective Anti-Markovnikov Addition of C-H Bonds in Aromatic Ketones to Alkenes. <i>Journal of the American Chemical Society</i> , 2017, 139, 14849-14852.	6.6	72
7	Iron(III)-catalyzed chelation assisted remote C-H bond oxygenation of 8-amidoquinolines. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 9200-9208.	1.5	24
8	Cyclic ureas (DMI, DMPU) as efficient, sustainable ligands in iron-catalyzed $C(sp^2)$ - $C(sp^3)$ coupling of aryl chlorides and tosylates. <i>Green Chemistry</i> , 2017, 19, 5361-5366.	4.6	46
9	Substrate-Dependent Two-State Reactivity in Iron-Catalyzed Alkene [2+2] Cycloaddition Reactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 15564-15567.	6.6	52
10	C-H Bond Functionalization by Mechanochemistry. <i>Chemistry - A European Journal</i> , 2017, 23, 17157-17165.	1.7	121
11	Iron-Catalyzed C=O Bond Activation: Opportunity for Sustainable Catalysis. <i>ChemSusChem</i> , 2017, 10, 3964-3981.	3.6	95
12	Regioselective Access to Structurally Diverse Coumarin Analogues through Iron-Catalysed Annulation Reactions. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 5566-5571.	1.2	17
13	Asymmetric Iron-Catalyzed C-H Alkylation Enabled by Remote Ligand <i>meta</i> -Substitution. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14197-14201.	7.2	129
14	Asymmetric Iron-Catalyzed C-H Alkylation Enabled by Remote Ligand <i>meta</i> -Substitution. <i>Angewandte Chemie</i> , 2017, 129, 14385-14389.	1.6	104
15	Catalytic $C(sp^3)$ -H Alkylation via an Iron Carbene Intermediate. <i>Journal of the American Chemical Society</i> , 2017, 139, 13624-13627.	6.6	71
16	Manganese-Catalyzed Directed Methylation of $C(sp^2)$ -H Bonds at 25 °C with High Catalytic Turnover. <i>Organic Letters</i> , 2017, 19, 5458-5461.	2.4	55
17	Iron-Promoted Difunctionalization of Alkenes by Phenylselenylation/1,2-Aryl Migration. <i>Organic Letters</i> , 2017, 19, 5450-5453.	2.4	39
18	Iron-Catalyzed Reductive Cyclization of <i>ortho</i> -Nitrostyrenes Using Phenylsilane as the Terminal Reductant. <i>ACS Catalysis</i> , 2017, 7, 5518-5522.	5.5	56

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19	Computational studies on the Rh-catalyzed carboxylation of a C(sp ²)-H bond using CO ₂ . <i>Catalysis Science and Technology</i> , 2017, 7, 3539-3545.	2.1	16
20	MnCl ₂ -Catalyzed C-H Alkylations with Alkyl Halides. <i>Chemistry - A European Journal</i> , 2017, 23, 11524-11528.	1.7	57
21	Hydroboration of Alkynes Catalyzed by Pyrrolide-Based PNP Pincer-Iron Complexes. <i>Organic Letters</i> , 2017, 19, 4323-4326.	2.4	86
22	Directed Iron-Catalyzed <i>ortho</i> -Alkylation and Arylation: Toward the Stereoselective Catalytic Synthesis of 1,2-Disubstituted Planar-Chiral Ferrocene Derivatives. <i>Organometallics</i> , 2017, 36, 4979-4989.	1.1	59
23	Iron-Catalyzed C(sp ²)-C(sp ³) Cross-Coupling of Alkyl Grignard Reagents with Polyaromatic Tosylates. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 7271-7276.	1.2	18
24	N-Heterocyclic Carbene Iron Silyl Hydride Complexes. <i>Israel Journal of Chemistry</i> , 2017, 57, 1216-1221.	1.0	11
25	Palladium-Catalyzed Direct C-H Functionalization of Indoles with the Insertion of Sulfur Dioxide: Synthesis of 2-Sulfonated Indoles. <i>Organic Letters</i> , 2017, 19, 6638-6641.	2.4	71
26	Bromide-Mediated C-H Bond Functionalization: Intermolecular Annulation of Phenylethanone Derivatives with Alkynes for the Synthesis of 1-Naphthols. <i>Organic Letters</i> , 2017, 19, 6344-6347.	2.4	39
27	Electrochemical Cobalt-Catalyzed C-H Oxygenation at Room Temperature. <i>Journal of the American Chemical Society</i> , 2017, 139, 18452-18455.	6.6	298
28	Direct alkylheteroarylation of alkenes <i>via</i> photoredox mediated C-H functionalization. <i>Chemical Communications</i> , 2017, 53, 12946-12949.	2.2	35
29	Iron and Single Electron Transfer: All is in the Ligand. <i>Israel Journal of Chemistry</i> , 2017, 57, 1160-1169.	1.0	2
30	Cu- and Ni-Grafted Functionalized Mesoporous Silica as Active Catalyst for Olefin Oxidation. <i>ChemistrySelect</i> , 2017, 2, 10157-10166.	0.7	7
31	C-H Activation of π -Arene Ruthenium Complexes. <i>Organometallics</i> , 2017, 36, 4376-4381.	1.1	14
32	Introduction: CH Activation. <i>Chemical Reviews</i> , 2017, 117, 8481-8482.	23.0	264
33	Tri-Substituted Triazole-Enabled C-H Activation of Benzyl and Aryl Amines by Iron Catalysis. <i>Organic Letters</i> , 2017, 19, 3795-3798.	2.4	51
34	Iron-Catalyzed <i>ortho</i> -Selective C-H Borylation of 2-Phenylpyridines and Their Analogs. <i>Organic Letters</i> , 2017, 19, 3450-3453.	2.4	44
35	Iron-Catalyzed Regiospecific Intermolecular Radical Cyclization of Anilines: Strategy for Assembly of 2,2-Disubstituted Indolines. <i>Organic Letters</i> , 2018, 20, 1404-1408.	2.4	29
36	Direct synthesis of anthracenes from <i>o</i> -tolualdehydes and aryl iodides through Pd(II)-Catalyzed sp ² C-H arylation and electrophilic aromatic cyclization. <i>Tetrahedron</i> , 2018, 74, 2048-2055.	1.0	28

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37	A theoretical mechanistic study for C H and C C bond activations of cyclohexane catalyzed by NiAl + in the gas phase. Computational and Theoretical Chemistry, 2018, 1129, 48-56.	1.1	3
38	Solution Synthesis of <i>N,N</i> -Dimethylformamide-Stabilized Iron-Oxide Nanoparticles as an Efficient and Recyclable Catalyst for Alkene Hydrosilylation. ChemCatChem, 2018, 10, 2378-2382.	1.8	37
39	Synthesis, Characterization, and Reactivity of a High-Spin Iron(II) Hydrido Complex Supported by a PNP Pincer Ligand and Its Application as a Homogenous Catalyst for the Hydrogenation of Alkenes. Inorganic Chemistry, 2018, 57, 3183-3191.	1.9	35
40	Rhodium-catalyzed NH-indole-directed ortho C H coupling of 2-arylindoles with diazo compounds via metal carbene migratory insertion. Tetrahedron Letters, 2018, 59, 1568-1572.	0.7	15
41	2-Methyltetrahydrofuran: A Green Solvent for Iron-Catalyzed Cross-Coupling Reactions. ChemSusChem, 2018, 11, 1290-1294.	3.6	44
42	Does Lewis basicity correlate with catalytic performance in zerovalent group 8 complexes? Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2018, 73, 149-153.	0.3	0
43	Iron-catalyzed ortho trifluoromethylation of anilines via picolinamide assisted photoinduced C-H functionalization. Organic and Biomolecular Chemistry, 2018, 16, 2214-2218.	1.5	27
44	C4-H indole functionalisation: precedent and prospects. Chemical Science, 2018, 9, 4203-4216.	3.7	138
45	Fickle Reactivity of Allenes in Transition-Metal-Catalyzed C-H Functionalizations. Asian Journal of Organic Chemistry, 2018, 7, 1151-1163.	1.3	62
46	Iron-Catalyzed Synthesis of Indenones through Cyclization of Carboxamides with Alkynes. Asian Journal of Organic Chemistry, 2018, 7, 1327-1329.	1.3	25
47	Bulky Diamine Ligand Promotes Cross-Coupling of Difluoroalkyl Bromides by Iron Catalysis. Angewandte Chemie - International Edition, 2018, 57, 6921-6925.	7.2	65
48	Towards Sustainable C-H Functionalization Reactions: The Emerging Role of Bio-Based Reaction Media. Chemistry - A European Journal, 2018, 24, 13383-13390.	1.7	42
49	Bulky Diamine Ligand Promotes Cross-Coupling of Difluoroalkyl Bromides by Iron Catalysis. Angewandte Chemie, 2018, 130, 7037-7041.	1.6	6
50	Isolation and identification of the pre-catalyst in iron-catalyzed direct arylation of pyrrole with phenylboronic acid. Inorganica Chimica Acta, 2018, 478, 139-147.	1.2	13
51	Mechanochemical Cobalt-Catalyzed C-H Bond Functionalizations by Ball Milling. Advanced Synthesis and Catalysis, 2018, 360, 1800-1804.	2.1	74
52	Directing-Group-mediated C-H Alkynylations. Chemistry - an Asian Journal, 2018, 13, 1231-1247.	1.7	68
53	Manganese N-Heterocyclic Carbene Complexes for Catalytic Reduction of Ketones with Silanes. ChemCatChem, 2018, 10, 2734-2740.	1.8	51
54	Cp-Co(III)-catalyzed ortho C H amidation of 2-pyridinyl ferrocenes with 1,4,2-dioxazol-5-ones. Journal of Catalysis, 2018, 361, 393-397.	3.1	43

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55	Salicylate-Directed C=O Bond Cleavage: Iron-Catalyzed Allylic Substitution with Grignard Reagents. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 914-917.	1.3	13
56	To "Rollover" or Not? Stereoelectronically Guided C-H Functionalization Pathways from Rhodium "Abnormal NHC Intermediates. <i>ACS Omega</i> , 2018, 3, 1614-1620.	1.6	22
57	Direct C-Li/C-H coupling of pentafluorophenyl lithium with azines - An atom- and step-economical strategy for the synthesis of polyfluoroaryl azaaromatics. <i>Journal of Organometallic Chemistry</i> , 2018, 867, 278-283.	0.8	8
58	C(sp ²)-H functionalization of aldehyde-derived hydrazones via a radical process. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 1227-1241.	1.5	28
59	Supported iron catalysts for Michael addition reactions. <i>Molecular Catalysis</i> , 2018, 447, 65-71.	1.0	10
60	Inert C-H Bond Transformations Enabled by Organometallic Manganese Catalysis. <i>Accounts of Chemical Research</i> , 2018, 51, 816-827.	7.6	250
61	Metal-free synthesis of secondary amines by the reaction of tosyl triazene and aryl boronic acid. <i>Synthetic Communications</i> , 2018, 48, 656-662.	1.1	5
62	Mechanistic DFT Study on Rhodium(III)-Catalyzed Double C-H Activation for Oxidative Annulations of 2-Substituted Imidazoles and Alkynes. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 586-591.	1.3	9
63	Palladium-Catalyzed C-H Silylation through Palladacycles Generated from Aryl Halides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3233-3237.	7.2	119
64	Cobalt(II)-Catalyzed Acyloxylation of C-H Bonds in Aromatic Amides with Carboxylic Acids. <i>Organic Letters</i> , 2018, 20, 1062-1065.	2.4	58
65	Palladium-Catalyzed C-H Silylation through Palladacycles Generated from Aryl Halides. <i>Angewandte Chemie</i> , 2018, 130, 3287-3291.	1.6	25
66	Synthesis of Quinazolines via an Iron-Catalyzed Oxidative Amination of N-H Ketimines. <i>Journal of Organic Chemistry</i> , 2018, 83, 2395-2401.	1.7	26
67	Walking Metals for Remote Functionalization. <i>ACS Central Science</i> , 2018, 4, 153-165.	5.3	398
68	Regioselective C-H Alkylation via Carboxylate-Directed Hydroarylation in Water. <i>Chemistry - A European Journal</i> , 2018, 24, 4537-4541.	1.7	38
69	A concise synthesis of indene-based polycyclic compounds via FeCl ₃ -catalyzed cascade cyclization. <i>Organic Chemistry Frontiers</i> , 2018, 5, 1165-1169.	2.3	12
70	Synthesis of 1,2-Dihydroquinolines by Co(III)-Catalyzed [3 + 3] Annulation of Anilides with Benzylallenes. <i>ACS Catalysis</i> , 2018, 8, 1880-1883.	5.5	57
71	Rhodium-Catalyzed Regioselective Ortho C-H Olefination of Arylindoles via NH-Indole-Directed C-H Bond Cleavage. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 972-984.	2.1	30
72	Sulfonium Salts as Alkylating Agents for Palladium-Catalyzed Direct Ortho Alkylation of Anilides and Aromatic Ureas. <i>Organic Letters</i> , 2018, 20, 676-679.	2.4	36

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73	Regioselective direct arylation of indoles on the benzenoid moiety. <i>Chemical Communications</i> , 2018, 54, 1676-1685.	2.2	132
74	Elucidating the structure of a high-spin σ -phenyliron(III) species in a live $\text{FeCl}_3\text{-PhZnCl}$ reaction system. <i>Chemical Communications</i> , 2018, 54, 1481-1484.	2.2	2
75	Utilising Sodium-Mediated Ferration for Regioselective Functionalisation of Fluoroarenes via C-H and C-F Bond Activations. <i>Angewandte Chemie</i> , 2018, 130, 193-197.	1.6	9
76	Electrochemical C-H/N-H Activation by Water-Tolerant Cobalt Catalysis at Room Temperature. <i>Angewandte Chemie</i> , 2018, 130, 2407-2411.	1.6	68
77	Cobalt-catalyzed chelation-assisted C-H iodination of aromatic amides with I_2 . <i>Chemical Communications</i> , 2018, 54, 1359-1362.	2.2	37
78	A Six-Oxidase Cascade for Tandem C-H Bond Activation Revealed by Reconstitution of Bicyclomycin Biosynthesis. <i>Angewandte Chemie</i> , 2018, 130, 727-731.	1.6	15
79	Electrochemical C-H/N-H Activation by Water-Tolerant Cobalt Catalysis at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2383-2387.	7.2	219
80	1,4-Iron Migration for Expedient Allene Annulations through Iron-Catalyzed C-H/N-H/C-O/C-H Functionalizations. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7719-7723.	7.2	71
81	Co(II)-catalyzed regioselective clean and smooth synthesis of 2-(aryl/alkyl-thio)phenols via sp^2 C-H bond activation. <i>Molecular Catalysis</i> , 2018, 452, 260-263.	1.0	12
82	1,4-Iron Migration for Expedient Allene Annulations through Iron-Catalyzed C-H/N-H/C-O/C-H Functionalizations. <i>Angewandte Chemie</i> , 2018, 130, 7845-7849.	1.6	10
83	Pd(II)-Catalyzed Catellani-Type Domino Reaction Utilizing Arylboronic Acids as Substrates. <i>ACS Catalysis</i> , 2018, 8, 3775-3779.	5.5	56
84	Case for Lithium Tetramethylpiperidide-Mediated Ortholithiations: Reactivity and Mechanisms. <i>Journal of the American Chemical Society</i> , 2018, 140, 4877-4883.	6.6	19
85	Iron-Catalyzed Acyl Migration of Tertiary α -Azidyl Ketones: Synthetic Approach toward Enamides and Isoquinolones. <i>Organic Letters</i> , 2018, 20, 1875-1879.	2.4	38
86	Decarboxylative Cross-Coupling of Cinnamic Acids Catalyzed by Iron-Based Covalent Organic Frameworks. <i>Topics in Catalysis</i> , 2018, 61, 689-698.	1.3	17
87	Benign catalysis with iron: facile assembly of cyclobutanes and cyclohexenes via intermolecular radical cation cycloadditions. <i>Green Chemistry</i> , 2018, 20, 1743-1747.	4.6	28
88	Cobalt-catalyzed $\text{C}(\text{sp}^2)\text{-H/C}(\text{sp}^3)\text{-H}$ coupling directed C-H activation and 1,5-hydrogen atom transfer. <i>Organic Chemistry Frontiers</i> , 2018, 5, 582-585.	2.3	10
89	Iron-Catalyzed Aerobic Oxidation of Aldehydes: Single Component Catalyst and Mechanistic Studies. <i>Chinese Journal of Chemistry</i> , 2018, 36, 15-19.	2.6	30
90	Utilising Sodium-Mediated Ferration for Regioselective Functionalisation of Fluoroarenes via C-H and C-F Bond Activations. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 187-191.	7.2	41

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91	Ambireactive (R^3) BH_2 Groups Facilitating Temperature-Switchable Bond Activation by an Iron Complex. <i>Chemistry - A European Journal</i> , 2018, 24, 1358-1364.	1.7	6
92	Synthesis of sulfonated naphthols via C-H bond functionalization with the insertion of sulfur dioxide. <i>Organic Chemistry Frontiers</i> , 2018, 5, 371-375.	2.3	51
93	Synthesis of 1,1'- and 2,2'-Bicarbazole Alkaloids by Iron(III)-Catalyzed Oxidative Coupling of 2- and 1-Hydroxycarbazoles. <i>Chemistry - A European Journal</i> , 2018, 24, 458-470.	1.7	34
94	Synthesis of Benzamide Derivatives by the Reaction of Arenes and Isocyanides through a C-H Bond Activation Strategy. <i>Synlett</i> , 2018, 29, 94-98.	1.0	4
95	Ligand Exchange on and Allylic C-H Activation by Iron(0) Fragments: π -Complexes, Allyliron Species, and Metallacycles. <i>Organometallics</i> , 2018, 37, 729-739.	1.1	26
96	Palladium-Catalyzed Intermolecular Acylation of Aryl Diazoesters with <i>ortho</i> -Bromobenzaldehydes. <i>Angewandte Chemie</i> , 2018, 130, 325-329.	1.6	13
97	Oxidative coupling of benzoic acids with alkynes: Catalyst design and selectivity. <i>Journal of Organometallic Chemistry</i> , 2018, 867, 14-24.	0.8	44
98	A Six-Oxidase Cascade for Tandem C-H Bond Activation Revealed by Reconstitution of Bicyclomycin Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 719-723.	7.2	73
99	Conversion of Olefins into Ketones by an Iron-Catalyzed Wacker-type Oxidation Using Oxygen as the Sole Oxidant. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1222-1226.	7.2	47
100	Rhodium-Catalyzed Alkenyl C-H Activation and Oxidative Coupling with Allylic Alcohols. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 240-247.	1.3	16
101	Hochselektive Mangan(I)/Lewis-Säure-katalysierte direkte C-H-Propargylierung unter Verwendung von Bromallenen. <i>Angewandte Chemie</i> , 2018, 130, 445-449.	1.6	17
102	Iron-Catalyzed Remote Arylation of Aliphatic C-H Bond via 1,5-Hydrogen Shift. <i>ACS Catalysis</i> , 2018, 8, 8-11.	5.5	34
103	Palladium-Catalyzed Intermolecular Acylation of Aryl Diazoesters with <i>ortho</i> -Bromobenzaldehydes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 319-323.	7.2	46
104	Highly Selective Manganese(I)/Lewis Acid Cocatalyzed Direct C-H Propargylation Using Bromoallenes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 437-441.	7.2	69
105	Chemistry: A Bridge between Molecular World and Real World. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2018, 76, 1232-1246.	0.0	1
106	Origins of the enantioselectivity of a palladium catalyst with BINOL-phosphoric acid ligands. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 8064-8071.	1.5	14
107	One-step construction of molecular complexity by tert-butyl nitrite (TBN)-initiated cascade $1^{\circ}, 2^{\circ}$ -sp ³ C-H bond difunctionalization and C-N bond cleavage. <i>Chemical Communications</i> , 2018, 54, 13232-13235.	2.2	34
108	Reusable Immobilized Iron(II) Nanoparticle Precatalysts for Ligand-Free Kumada Coupling. <i>ACS Applied Nano Materials</i> , 2018, 1, 6950-6958.	2.4	10

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109	Visible-Light-Driven Photochemical Activation of sp ³ C-H Bond for Hemiaminal Formation. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 2464-2467.	1.3	5
110	Exceedingly Fast, Direct Access to Dihydroisoquinolino[1,2- <i>b</i>]quinazolinones through a Ruthenium(II)-Catalyzed Redox-Neutral C-H Alkylation/Hydroamination Cascade. <i>Organic Letters</i> , 2018, 20, 7107-7112.	2.4	40
111	Cobalt-catalyzed C-H activation: recent progress in heterocyclic chemistry. <i>Catalysis Science and Technology</i> , 2018, 8, 5983-6018.	2.1	90
112	Cobalt-Catalyzed Hiyama-Type C-H Activation with Arylsiloxanes: Versatile Access to Highly <i>ortho</i> -Decorated Biaryls. <i>Chemistry - A European Journal</i> , 2019, 25, 2213-2216.	1.7	27
113	Mapping out the key carbon-carbon bond-forming steps in Mn-catalysed C-H functionalization. <i>Nature Catalysis</i> , 2018, 1, 830-840.	16.1	61
114	Cobalt(<i>iii</i>)-catalyzed site-selective C-H amidation of pyridones and isoquinolones. <i>RSC Advances</i> , 2018, 8, 32659-32663.	1.7	27
115	B(C ₆ F ₅) ₃ /Amine-Catalyzed C(sp) ³ -H Silylation of Terminal Alkynes with Hydrosilanes: Experimental and Theoretical Studies. <i>Angewandte Chemie</i> , 2018, 130, 15442-15446.	1.6	9
116	B(C ₆ F ₅) ₃ /Amine-Catalyzed C(sp) ³ -H Silylation of Terminal Alkynes with Hydrosilanes: Experimental and Theoretical Studies. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15222-15226.	7.2	47
117	Regioselective indole C2-alkylation using <i>2</i> -CF ₃ -substituted enones under redox neutral Rh(<i>iii</i>) catalysis. <i>Organic Chemistry Frontiers</i> , 2018, 5, 3133-3137.	2.3	28
118	Direct C(sp ³)-H functionalization of 2-methylarenes using 4-substituted-TEMPO. <i>Tetrahedron Letters</i> , 2018, 59, 4454-4457.	0.7	1
119	Copper(II)-catalyzed C(sp ³)-H activation of cyclic amines: A simple and efficient strategy for the synthesis of fused pyrazole derivatives. <i>Tetrahedron Letters</i> , 2018, 59, 4161-4164.	0.7	11
120	Recent Advances on Mechanistic Studies on C-H Activation Catalyzed by Base Metals. <i>Open Chemistry</i> , 2018, 16, 1001-1058.	1.0	39
121	Iron-Catalyzed Directed Alkylation of Carboxamides with Olefins via a Carbometalation Pathway. <i>ACS Catalysis</i> , 2018, 8, 11478-11482.	5.5	24
122	Transition metal-free oxidative and deoxygenative C-H/C-Li cross-couplings of 2-H-imidazole 1-oxides with carboranyl lithium as an efficient synthetic approach to azaheterocyclic carboranes. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 2618-2626.	1.3	18
123	Use of Cyclopropane as C1 Synthetic Unit by Directed Retro-Cyclopropanation with Ethylene Release. <i>Journal of the American Chemical Society</i> , 2018, 140, 15425-15429.	6.6	25
124	Synthesis of 5-H-Dibenzo[<i>c,g</i>]chromen-5-ones via FeCl ₃ -Mediated Tandem C=O Bond Cleavage/ <i>6</i> -Electrocyclization/Oxidative Aromatization. <i>Organic Letters</i> , 2018, 20, 5718-5722.	2.4	10
125	FeCl ₃ -promoted tandem 1,4-conjugate addition/ <i>6-endo-dig</i> cyclization/oxidation of propargylamines and benzoylacetone nitriles/malononitriles: direct access to functionalized 2-aryl-4-H-chromenes. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7191-7202.	1.5	20
126	Rhodium(<i>iii</i>)-catalysed decarbonylative annulation through C-H activation: expedient access to aminoisocoumarins by weak coordination. <i>Chemical Communications</i> , 2018, 54, 11889-11892.	2.2	20

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127	Activation of Molecular Hydrogen and Oxygen by PSiP Complexes of Cobalt. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4481-4493.	1.0	21
128	Iron-catalysed carbene-transfer reactions of diazo acetonitrile. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7129-7133.	1.5	24
129	Metal-Catalyzed Aromatic C-O Bond Activation/Transformation. <i>Topics in Organometallic Chemistry</i> , 2018, , 103-140.	0.7	12
130	One-Pot C-H Formylation Enabled by Relay Catalysis of Manganese(I) and Iron(III). <i>ACS Catalysis</i> , 2018, 8, 10036-10042.	5.5	35
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132	Pharmaceutical-Oriented Iron-Catalyzed Ethoxylation of Aryl C(sp ²)-H Bonds with Cobalt Catalyst. <i>ChemistrySelect</i> , 2018, 3, 9803-9806.	0.7	4
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291	Tryptamine Synthesis by Iron Porphyrin Catalyzed C-H Functionalization of Indoles with Diazoacetonitrile. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3630-3634.	7.2	92

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742	Iron-catalyzed cascade C-C/O bond formation of 2,4-dienals with donor-acceptor cyclopropanes: access to functionalized hexahydrocyclopentapyrans. <i>Chemical Communications</i> , 2024, 60, 2788-2791.	2.2	0