

# Transition-Metal-Catalyzed C–H Alkylation Using Alkyl

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Baseâ€Controlled Completely Selective Linear or Branched Rhodium(I)â€Catalyzed Câ~H <i>ortho</i>â€Alkylation of Azines without Preactivation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5899-5903.	7.2	50
2	Palladium(I) Dimer Enabled Extremely Rapid and Chemoselective Alkylation of Aryl Bromides over Triflates and Chlorides in Air. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7078-7082.	7.2	99
3	Palladium-Catalyzed Câ€H Trifluoroethoxylation of <i>N</i>-Sulfonylbenzamides. <i>Organic Letters</i> , 2017, 19, 2746-2749.	2.4	39
4	Murai Reaction on Furfural Derivatives Enabled by Removable <i>N</i>,<i>N</i>â€Bidentate Directing Groups. <i>Chemistry - A European Journal</i> , 2017, 23, 8385-8389.	1.7	30
5	Practical Alkoxythiocarbonyl Auxiliaries for Iridium(I)â€Catalyzed Câ~H Alkylation of Azacycles. <i>Angewandte Chemie</i> , 2017, 129, 10666-10670.	1.6	27
6	Photochemical Generation of Nitrogen-Centered Amidyl, Hydrazonyl, and Imidyl Radicals: Methodology Developments and Catalytic Applications. <i>ACS Catalysis</i> , 2017, 7, 4999-5022.	5.5	334
7	Iridium(I)â€Catalyzed Intramolecular Hydrocarbonation of Alkenes: Efficient Access to Cyclic Systems Bearing Quaternary Stereocenters. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9541-9545.	7.2	59
8	Câ€H Alkylations of (Hetero)Arenes by Maleimides and Maleate Esters through Cobalt(III) Catalysis. <i>Organic Letters</i> , 2017, 19, 3315-3318.	2.4	116
9	Switchable Câ€H Functionalization of <i>N</i>-Tosyl Acrylamides with Acryloylsilanes. <i>Organic Letters</i> , 2017, 19, 2869-2872.	2.4	37
10	Sulfinyl isobutyramide as an auxiliary for palladium(ii)-catalyzed Câ€H arylation and iodination of benzylamine derivatives. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4966-4970.	1.5	15
11	Manganese(I)-Catalyzed Câ€H 3,3-Difluoroallylation of Pyridones and Indoles. <i>Organic Letters</i> , 2017, 19, 3159-3162.	2.4	82
12	Mild C(sp <sup>3</sup> )â~H Alkylation of 8â€Methylquinolines with Î±,Î²â€Unsaturated Carbonyl Compounds by Rhodium(III) Catalysis. <i>Asian Journal of Organic Chemistry</i> , 2017, 6, 1014-1018.	1.3	18
13	Pivalophenone imine as a benzonitrile surrogate for directed Câ€H bond functionalization. <i>Chemical Science</i> , 2017, 8, 5299-5304.	3.7	39
14	Manganeseâ€Mediated Homolytic Aromatic Substitution with Phosphinylidenes. <i>Chemical Record</i> , 2017, 17, 1203-1212.	2.9	13
15	Direct Reductive Quinolyl Î²-Câ€H Alkylation by Multispherical Cavity Carbon-Supported Cobalt Oxide Nanocatalysts. <i>ACS Catalysis</i> , 2017, 7, 4780-4785.	5.5	95
16	Practical Alkoxythiocarbonyl Auxiliaries for Iridium(I)â€Catalyzed Câ~H Alkylation of Azacycles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10530-10534.	7.2	87
17	Catalytic Coupling between Unactivated Aliphatic Câ€H Bonds and Alkynes via a Metalâ€Hydride Pathway. <i>Journal of the American Chemical Society</i> , 2017, 139, 5716-5719.	6.6	56
18	Transition-Metal-Catalyzed Cross-Couplings through Carbene Migratory Insertion. <i>Chemical Reviews</i> , 2017, 117, 13810-13889.	23.0	915

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19	Photoredox-Catalyzed C-H Arylation of Internal Alkenes to Tetrasubstituted Alkenes: Synthesis of Tamoxifen. <i>Organic Letters</i> , 2017, 19, 6248-6251.	2.4	32
20	Asymmetric Cycloisomerization of $\alpha$ -Alkenyl $\beta$ -Methylanilines to Indolines by Iridium-Catalyzed C(sp <sup>3</sup> ) <sup>3</sup> -H Addition to Carbon-Carbon Double Bonds. <i>Angewandte Chemie</i> , 2017, 129, 14460-14464.	1.6	9
21	Asymmetric Cycloisomerization of $\alpha$ -Alkenyl $\beta$ -Methylanilines to Indolines by Iridium-Catalyzed C(sp <sup>3</sup> ) <sup>3</sup> -H Addition to Carbon-Carbon Double Bonds. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14272-14276.	7.2	41
22	Ketene Amino Phosphates: Competent Substrates for Enantioselective Pd(0)-Catalyzed C-H Functionalizations. <i>ACS Catalysis</i> , 2017, 7, 7417-7420.	5.5	48
23	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
24	Heterometallic catalysis for sustainable organic syntheses. <i>Chemical Society Reviews</i> , 2017, 46, 7399-7420.	18.7	135
25	Bifurcated Nickel-Catalyzed Functionalizations: Heteroarene C-H Activation with Allenes. <i>Angewandte Chemie</i> , 2017, 129, 16107-16111.	1.6	18
26	Bifurcated Nickel-Catalyzed Functionalizations: Heteroarene C-H Activation with Allenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15891-15895.	7.2	63
27	Comparative investigation of the reactivities between catalysts [Cp*RhCl <sub>2</sub> ] <sub>2</sub> and [Cp*IrCl <sub>2</sub> ] <sub>2</sub> in the oxidative annulation of isoquinolones with alkynes: a combined experimental and computational study. <i>Organic Chemistry Frontiers</i> , 2017, 4, 2327-2335.	2.3	4
28	C2-Selective Branched Alkylation of Benzimidazoles by Rhodium(I)-Catalyzed C-H Activation. <i>Journal of Organic Chemistry</i> , 2017, 82, 9243-9252.	1.7	22
29	Ligand Effects and Kinetic Investigations of Sterically Accessible 2-Pyridonate Tantalum Complexes for Hydroaminoalkylation. <i>ACS Catalysis</i> , 2017, 7, 6323-6330.	5.5	36
30	Enantioselective C-H Functionalization-Addition Sequence Delivers Densely Substituted 3-Azabicyclo[3.1.0]hexanes. <i>Journal of the American Chemical Society</i> , 2017, 139, 12398-12401.	6.6	75
31	Branched-Selective Intermolecular Ketone $\alpha$ -Alkylation with Unactivated Alkenes via an Enamide Directing Strategy. <i>Journal of the American Chemical Society</i> , 2017, 139, 13664-13667.	6.6	91
32	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
33	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
34	Methylation of C(sp <sup>3</sup> ) <sup>3</sup> -H/C(sp <sup>2</sup> ) <sup>2</sup> -H Bonds with Methanol Catalyzed by Cobalt System. <i>Organic Letters</i> , 2017, 19, 5228-5231.	2.4	94
35	Pyridyl-Directed Cp*Rh(III)-Catalyzed B(3)-H Acyloxylation of $\alpha$ -Carborane. <i>Organic Letters</i> , 2017, 19, 5178-5181.	2.4	66
36	Manganese-Catalyzed Directed Methylation of C(sp <sup>2</sup> ) <sup>2</sup> -H Bonds at 25 °C with High Catalytic Turnover. <i>Organic Letters</i> , 2017, 19, 5458-5461.	2.4	55

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37	Nickel-catalyzed C-H activation of purine bases with alkyl halides. <i>Chemical Communications</i> , 2017, 53, 9113-9116.	2.2	36
38	Ruthenium-Catalyzed Alkynylation of Benzoic Acids Mediated by a Weakly Coordinating Directing Auxiliary. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 4749-4752.	1.2	17
39	Linear Selective C-H Bond Alkylation with Activated Olefins Catalyzed by Cp*Co <sup>III</sup> . <i>European Journal of Organic Chemistry</i> , 2017, 2017, 4370-4374.	1.2	32
40	Asymmetric alkylation of remote C(sp <sup>3</sup> )-H bonds by combining proton-coupled electron transfer with chiral Lewis acid catalysis. <i>Chemical Communications</i> , 2017, 53, 8964-8967.	2.2	106
41	Iridium(I)-Catalyzed Intramolecular Hydrocarbonation of Alkenes: Efficient Access to Cyclic Systems Bearing Quaternary Stereocenters. <i>Angewandte Chemie</i> , 2017, 129, 9669-9673.	1.6	18
42	Rhodium-catalyzed and MeOH-involved regioselective mono-alkenylation of N-arylsulfonamides with acrylates. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 7088-7092.	1.5	12
43	Quaternary Ammonium Salts as Alkylating Reagents in C-H Activation Chemistry. <i>Organic Letters</i> , 2017, 19, 4287-4290.	2.4	24
44	Rh(I)-Catalyzed Alkylation of <i>ortho</i> -C-H Bonds in Aromatic Amides with Maleimides. <i>Organic Letters</i> , 2017, 19, 4544-4547.	2.4	79
45	Palladium-Catalyzed Domino Alkenylation/Amination/Pyridination Reactions of 2-Vinylanilines with Alkynes: Access to Cyclopentaquinolines. <i>Organic Letters</i> , 2017, 19, 6498-6501.	2.4	28
46	Rhodium-catalyzed benzoisothiazole synthesis by tandem annulation reactions of sulfoximines and activated olefins. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 9983-9986.	1.5	23
47	Carbene-Catalyzed Indole 3-Methyl C(sp <sup>3</sup> )-H Bond Functionalization. <i>Journal of Organic Chemistry</i> , 2017, 82, 13342-13347.	1.7	25
48	Introduction: CH Activation. <i>Chemical Reviews</i> , 2017, 117, 8481-8482.	23.0	264
49	Coupling of Challenging Heteroaryl Halides with Alkyl Halides via Nickel-Catalyzed Cross-Electrophile Coupling. <i>Journal of Organic Chemistry</i> , 2017, 82, 7085-7092.	1.7	84
50	Highly Efficient and Divergent Construction of Chiral $\beta$ -Phosphono- $\alpha$ -Amino Acids via Palladium-Catalyzed Alkylation of Unactivated C(sp <sup>3</sup> )-H Bonds. <i>ACS Catalysis</i> , 2017, 7, 5220-5224.	5.5	41
51	Cobalt-Catalyzed, N-H Imine-Directed Hydroarylation of Styrenes. <i>Organic Letters</i> , 2018, 20, 1392-1395.	2.4	27
52	Photocatalyzed <i>ortho</i> -Alkylation of Pyridine N-Oxides through Alkene Cleavage. <i>Angewandte Chemie</i> , 2018, 130, 5233-5236.	1.6	28
53	Photocatalyzed <i>ortho</i> -Alkylation of Pyridine N-Oxides through Alkene Cleavage. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5139-5142.	7.2	75
54	Direct synthesis of anthracenes from <i>o</i> -tolualdehydes and aryl iodides through Pd(II)-Catalyzed sp <sup>2</sup> C-H arylation and electrophilic aromatic cyclization. <i>Tetrahedron</i> , 2018, 74, 2048-2055.	1.0	28

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55	Palladium(II)-Catalyzed Mono- and Bis-alkenylation of <i>N</i> -Acetyl-2-aminobiaryls through Regioselective C–H Bond Activation. <i>Journal of Organic Chemistry</i> , 2018, 83, 3840-3856.	1.7	19
56	Rh/Cu-Catalyzed Ketone $\gamma$ -Functionalization by Merging Ketone Dehydrogenation and Carboxyl-Directed C–H Alkylation. <i>ACS Catalysis</i> , 2018, 8, 4777-4782.	5.5	53
57	Iridium(III)-Catalyzed Directed <i>ortho</i> -C(sp <sup>2</sup> )–H Amidation of Arenes with Sulfonamides. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2071-2077.	1.2	7
58	Hydroxyl Group-Prompted and Iridium(III)-Catalyzed Regioselective C–H Annulation of <i>N</i> -phenoxyacetamides with Propargyl Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 2470-2475.	2.1	48
59	Site-Selective $\gamma$ -C(sp <sup>3</sup> )–H Alkylation of Amino Acids and Peptides with Maleimides via a Six-Membered Palladacycle. <i>Angewandte Chemie</i> , 2018, 130, 5960-5964.	1.6	46
60	One-Pot <i>S</i> - <i>N</i> -Ar/Direct Pd-Catalyzed CH Arylation Functionalization of Pyrazolo[1,5- <i>a</i> ]pyrimidine at the C3 and C7 Positions. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 3936-3942.	1.2	9
61	Site-Selective $\gamma$ -C(sp <sup>3</sup> )–H Alkylation of Amino Acids and Peptides with Maleimides via a Six-Membered Palladacycle. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5858-5862.	7.2	159
62	Palladium-catalyzed aerobic regio- and stereo-selective olefination reactions of phenols and acrylates via direct dehydrogenative C(sp <sup>2</sup> )–O cross-coupling. <i>Chemical Communications</i> , 2018, 54, 4437-4440.	2.2	6
63	Rhodium(III)-catalyzed C–H amination of 2-arylquinazolin-4(3H)-one with <i>N</i> -alkyl- <i>O</i> -benzoyl-hydroxylamines. <i>Tetrahedron</i> , 2018, 74, 2330-2337.	1.0	16
64	Manganese(II/III)-Catalyzed C–H Arylations in Continuous Flow. <i>ACS Catalysis</i> , 2018, 8, 4402-4407.	5.5	49
65	Enantioselective Ni–Al Bimetallic Catalyzed <i>exo</i> -Selective C–H Cyclization of Imidazoles with Alkenes. <i>Journal of the American Chemical Society</i> , 2018, 140, 5360-5364.	6.6	120
66	Iridium-Catalyzed Direct Asymmetric Alkylation of Aniline Derivatives using 2-Norbornene. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 1054-1056.	1.3	16
67	Mechanism and origins of the directing group-controlled <i>endo</i> - versus <i>exo</i> -selectivity of iridium-catalysed intramolecular hydroalkenylation of 1,1-disubstituted alkenes. <i>Chemical Communications</i> , 2018, 54, 2678-2681.	2.2	18
68	Site-specific hydroxyalkylation of chromones via alcohol mediated Minisci-type radical conjugate addition. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 1823-1827.	1.5	19
69	Arene-Ligand-Free Ruthenium(II/III) Manifold for <i>meta</i> -C–H Alkylation: Remote Purine Diversification. <i>Chemistry - A European Journal</i> , 2018, 24, 3984-3988.	1.7	65
70	Mixing <i>O</i> -Containing and <i>N</i> -Containing Directing Groups for C–H Activation: A Strategy for the Synthesis of Highly Functionalized 2,2-Biaryls. <i>Journal of Organic Chemistry</i> , 2018, 83, 2582-2591.	1.7	16
71	Rhodium-catalyzed C–H bond activation alkylation and cyclization of 2-arylquinazolin-4-ones. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 1851-1859.	1.5	27
72	Mechanism and Origins of Regio- and Enantioselectivities of Iridium-Catalyzed Hydroarylation of Alkenyl Ethers. <i>Journal of Organic Chemistry</i> , 2018, 83, 2937-2947.	1.7	42

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73	Macrolide Synthesis through Intramolecular Oxidative Cross-Coupling of Alkenes. <i>Angewandte Chemie</i> , 2018, 130, 564-568.	1.6	13
74	sp <sup>3</sup> -C-H activation via exo-type directing groups. <i>Chemical Science</i> , 2018, 9, 1424-1432.	3.7	189
75	Regioselective C-H Alkylation via Carboxylate-Directed Hydroarylation in Water. <i>Chemistry - A European Journal</i> , 2018, 24, 4537-4541.	1.7	38
76	Transient Directing Groups for Transformative C-H Activation by Synergistic Metal Catalysis. <i>CheM</i> , 2018, 4, 199-222.	5.8	519
77	±-C-H Alkylation of Methyl Sulfides with Alkenes by a Scandium Catalyst. <i>Journal of the American Chemical Society</i> , 2018, 140, 114-117.	6.6	59
78	Iridium-Catalyzed Hydroarylation of Conjugated Dienes via $\pi$ -Allyliridium Intermediates. <i>Organic Letters</i> , 2018, 20, 828-831.	2.4	22
79	Catalytic and Atom-Economic C-C Bond Formation: Alkyl-Tantalum Ureates for Hydroaminoalkylation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3469-3472.	7.2	38
80	Catalytic and Atom-Economic C-C Bond Formation: Alkyl-Tantalum Ureates for Hydroaminoalkylation. <i>Angewandte Chemie</i> , 2018, 130, 3527-3530.	1.6	13
81	Regioselective direct arylation of indoles on the benzenoid moiety. <i>Chemical Communications</i> , 2018, 54, 1676-1685.	2.2	132
82	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
83	Cobalt-Catalyzed Coupling of Benzoic Acid C-H Bonds with Alkynes, Styrenes, and 1,3-Dienes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1688-1691.	7.2	108
84	Cobalt-Catalyzed Coupling of Benzoic Acid C-H Bonds with Alkynes, Styrenes, and 1,3-Dienes. <i>Angewandte Chemie</i> , 2018, 130, 1704-1707.	1.6	23
85	A tethering directing group strategy for ruthenium-catalyzed intramolecular alkene hydroarylation. <i>Chemical Communications</i> , 2018, 54, 924-927.	2.2	27
86	Synthesis of 7-Azaindole Amidated Derivatives: An Efficient Usage of Acyl Azides as the Nitrogen Source. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 1104-1110.	2.1	34
87	Co-Catalyzed N-chloroamide-directed C-H activation for 3,4-dihydroisoquinolone synthesis. <i>Organic Chemistry Frontiers</i> , 2018, 5, 994-997.	2.3	32
88	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
89	Molecular Imprinting: Materials Nanoarchitectonics with Molecular Information. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1075-1111.	2.0	215
90	Rhodium-Catalyzed, Remote Terminal Hydroarylation of Activated Olefins through a Long-Range Deconjugative Isomerization. <i>Journal of the American Chemical Society</i> , 2018, 140, 6062-6066.	6.6	163

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91	Rh-Catalyzed C–H bond alkylation of indoles with $\beta,\beta$ -difluorovinyl tosylate <i>via</i> indolyl group migration. <i>Chemical Communications</i> , 2018, 54, 5618-5621.	2.2	32
92	Ru <sup>II</sup> -Catalyzed Annulative Coupling of Benzoic Acids with Vinyl Sulfone <i>via</i> Weak Carboxylate-Assisted C–H Bond Activation. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 1302-1306.	1.3	16
93	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
94	Iridium-catalyzed C–H phosphoramidation of <i>N</i> -aryl-7-azaindoles with phosphoryl azides. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 3711-3715.	1.5	15
95	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
96	Direct functionalization of benzylic and non-benzylic C(sp <sup>3</sup> )–H bonds <i>via</i> keteniminium ion initiated cascade [1,5]-hydrogen transfer/cyclization. <i>Organic Chemistry Frontiers</i> , 2018, 5, 1854-1858.	2.3	10
97	DMF-Promoted Redox-Neutral Ni-Catalyzed Intramolecular Hydroarylation of Alkene with Simple Arene. <i>ACS Catalysis</i> , 2018, 8, 3913-3917.	5.5	25
98	Nickel-Catalyzed Enantioselective Pyridone C–H Functionalizations Enabled by a Bulky <i>N</i> -Heterocyclic Carbene Ligand. <i>Journal of the American Chemical Society</i> , 2018, 140, 4489-4493.	6.6	140
99	Mechanism, selectivity, and reactivity of iridium- and rhodium-catalyzed intermolecular ketone $\beta$ -alkylation with unactivated olefins <i>via</i> an enamide directing strategy. <i>Catalysis Science and Technology</i> , 2018, 8, 2417-2426.	2.1	36
100	One-pot regioselective synthesis of 2,4-disubstituted quinolines <i>via</i> copper(sc <sup>II</sup> )-catalyzed cascade annulation. <i>Organic Chemistry Frontiers</i> , 2018, 5, 1713-1718.	2.3	20
101	Asymmetric hydrofunctionalization of minimally functionalized alkenes <i>via</i> earth abundant transition metal catalysis. <i>Organic Chemistry Frontiers</i> , 2018, 5, 260-272.	2.3	201
102	Total synthesis of natural products <i>via</i> iridium catalysis. <i>Organic Chemistry Frontiers</i> , 2018, 5, 106-131.	2.3	33
103	Scandium-catalyzed C(sp <sup>3</sup> )–H alkylation of <i>N,N</i> -dimethyl anilines with alkenes. <i>Organic Chemistry Frontiers</i> , 2018, 5, 59-63.	2.3	38
104	Intramolecular Acetyl Transfer to Olefins by Catalytic C–C Bond Activation of Unstrained Ketones. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 475-479.	7.2	45
105	Macrolide Synthesis through Intramolecular Oxidative Cross-Coupling of Alkenes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 555-559.	7.2	74
106	Isocanthine Synthesis <i>via</i> Rh(III)-Catalyzed Intramolecular C–H Functionalization. <i>Journal of Organic Chemistry</i> , 2018, 83, 330-337.	1.7	15
107	Palladium-Catalyzed Sequential Vinylic C–H Arylation/Amination of 2-Vinylanilines with Aryl boronic Acids: Access to 2-Arylindoles. <i>Journal of Organic Chemistry</i> , 2018, 83, 323-329.	1.7	26
108	Intramolecular Acetyl Transfer to Olefins by Catalytic C–C Bond Activation of Unstrained Ketones. <i>Angewandte Chemie</i> , 2018, 130, 484-488.	1.6	9

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109	The Use of a Rhodium Catalyst/8-Aminoquinoline Directing Group in the C-H Alkylation of Aromatic Amides with Alkenes: Possible Generation of a Carbene Intermediate from an Alkene. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 211-222.	2.0	41
110	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
111	Nickel(0)-Catalyzed Hydroarylation of Styrenes and 1,3-Dienes with Organoboron Compounds. <i>Angewandte Chemie</i> , 2018, 130, 470-473.	1.6	39
112	Redox-Tag Processes: Intramolecular Electron Transfer and Its Broad Relationship to Redox Reactions in General. <i>Chemical Reviews</i> , 2018, 118, 4592-4630.	23.0	139
113	Photoredox and cobalt co-catalyzed C(sp <sup>2</sup> )-H functionalization/C=O bond formation for synthesis of lactones under oxidant- and acceptor-free conditions. <i>Organic Chemistry Frontiers</i> , 2018, 5, 749-752.	2.3	44
114	Hochselektive Mangan(I)/Lewis-Äure-cokatalysierte direkte C-H-Propargylierung unter Verwendung von Bromallenen. <i>Angewandte Chemie</i> , 2018, 130, 445-449.	1.6	17
115	Nickel(0)-Catalyzed Hydroarylation of Styrenes and 1,3-Dienes with Organoboron Compounds. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 461-464.	7.2	153
116	Quantifying Structural Effects of Amino Acid Ligands in Pd(II)-Catalyzed Enantioselective C-H Functionalization Reactions. <i>Organometallics</i> , 2018, 37, 203-210.	1.1	32
117	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
118	Palladium-Catalyzed Intermolecular [4+1] Spiroannulation via C(sp <sup>3</sup> )-H Activation and Naphthol Dearomatization. <i>Angewandte Chemie</i> , 2018, 131, 1488.	1.6	27
119	Mechanism and origins of chemo- and regioselectivities of (NHC)NiH-catalyzed cross-hydroalkenylation of vinyl ethers with $\alpha$ -olefins: a computational study. <i>Organic Chemistry Frontiers</i> , 2018, 5, 3410-3420.	2.3	8
120	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
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122	Carboxylate Ligand-Exchanged Amination/C(sp <sup>3</sup> )-H Arylation Reaction via Pd/Norbornene Cooperative Catalysis. <i>ACS Catalysis</i> , 2018, 8, 11827-11833.	5.5	64
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125	Efficient Palladium-Catalyzed Aerobic Arylative Carbocyclization of Enallenynes. <i>Angewandte Chemie</i> , 2018, 130, 17084-17088.	1.6	18
126	Metal-Free Synthesis of Functionalized Tetrasubstituted Alkenes by Three-Component Reaction of Alkynes, Iodine, and Sodium Sulfinates. <i>ACS Omega</i> , 2018, 3, 18002-18015.	1.6	22



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128	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
129	Ir( <i>scp</i> )-catalyzed <i>ortho</i> -C-H alkylations of (hetero)aromatic aldehydes using alkyl boron reagents. <i>Chemical Science</i> , 2018, 9, 8951-8956.	3.7	33
130	Ruthenium(IV) Intermediates in C-H Activation/Annulation by Weak <i>O</i> -Coordination. <i>Chemistry - A European Journal</i> , 2018, 24, 16548-16552.	1.7	71
131	Recent Advances in Hydrometallation of Alkenes and Alkynes via the First Row Transition Metal Catalysis. <i>Chinese Journal of Chemistry</i> , 2018, 36, 1075-1109.	2.6	347
132	Iridium-Catalyzed Sequential <i>sp</i> <sup>3</sup> C-H Alkylation of an <i>N</i> -Methyl Group with Alkenes Towards the Synthesis of $\pm$ -Substituted Amines. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 4827-4831.	2.1	21
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139	Enantiodivergent Desymmetrization in the Rhodium(III)-Catalyzed Annulation of Sulfoximines with Diazo Compounds. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15534-15538.	7.2	132
140	Cobalt-Catalyzed Secondary Alkylation of Arenes and Olefins with Alkyl Ethers through the Cleavage of C( <i>sp</i> <sup>2</sup> )-H and C( <i>sp</i> <sup>3</sup> )-O Bonds. <i>Journal of Organic Chemistry</i> , 2018, 83, 13402-13413.	1.7	13
141	Bimetallic Nickel Complexes for Aniline C-H Alkylations. <i>ACS Catalysis</i> , 2018, 8, 11657-11662.	5.5	32
142	Efficient Palladium-Catalyzed Aerobic Arylative Carbocyclization of Enallenynes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16842-16846.	7.2	29
143	Amide Effects in C-H Activation: Noncovalent Interactions with $\hat{L}$ -Shaped Ligand for <i>meta</i> -Borylation of Aromatic Amides. <i>Angewandte Chemie</i> , 2018, 130, 15988-15992.	1.6	34
144	Dimethylamine adducts of allylic triorganoboranes as effective reagents for Petasis-type homoallylation of primary amines with formaldehyde. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7115-7119.	1.5	4

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146	Nickel(0)-Catalyzed Hydroalkylation of 1,3-Dienes with Simple Ketones. <i>Journal of the American Chemical Society</i> , 2018, 140, 11627-11630.	6.6	123
147	Alkylation-oxidation of $\alpha$ -carbonyl imines or ketones catalyzed by a copper salt via radical-mediated C(sp <sup>3</sup> )-H functionalization. <i>Organic Chemistry Frontiers</i> , 2018, 5, 3083-3087.	2.3	8
148	Ru(II)-Catalyzed C6-selective C-H amidation of 2-pyridones. <i>Organic Chemistry Frontiers</i> , 2018, 5, 2969-2973.	2.3	44
149	TiO <sub>2</sub> Photocatalyzed C-H Bond Transformation for C-C Coupling Reactions. <i>Catalysts</i> , 2018, 8, 355.	1.6	32
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151	H-bonded reusable template assisted para-selective ketonisation using soft electrophilic vinyl ethers. <i>Nature Communications</i> , 2018, 9, 3582.	5.8	62
152	Hydroarylations by cobalt-catalyzed C-H activation. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 2266-2288.	1.3	39
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155	Silica-supported silver nanoparticles as an efficient catalyst for aromatic C-H alkylation and fluoroalkylation. <i>Dalton Transactions</i> , 2018, 47, 9608-9616.	1.6	27
156	Rhodium(II)-Heterocyclic Carbene Catalyzed Hydroalkenylation Reactions with 2-Vinylpyridine and 2-Vinylpyrazine: Preparation of Nitrogen-Bridgehead Heterocycles. <i>Organometallics</i> , 2018, 37, 1695-1707.	1.1	19
157	Merging Anti-Baldwin-3-Exo-Dig Cyclization with 1,2-Alkynyl Migration for Radical Alkylalkynylation of Unactivated Olefins. <i>Organic Letters</i> , 2018, 20, 3596-3600.	2.4	39
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161	Synthesis of Heterocyclic Compounds Based on Transition-Metal-Catalyzed Carbene Coupling Reactions. , 2018, , 129-191.		1
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164	Rhodium(III)-Catalyzed Redox-Neutral C-H Activation/Annulation of <i>N</i> -Aryloxyacetamides with Alkynyloxiranes: Synthesis of Highly Functionalized 2,3-Dihydrobenzofurans. <i>Journal of Organic Chemistry</i> , 2018, 83, 9464-9470.	1.7	27
165	Nickel-catalyzed direct C-H bond sulfenylation of acylhydrazines. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 6047-6056.	1.5	27
166	Ruthenium-Catalyzed C-H Functionalization of Benzoic Acids with Allyl Alcohols: A Controlled Reactivity Switch between C-H Alkenylation and C-H Alkylation Pathways. <i>Organic Letters</i> , 2018, 20, 4934-4937.	2.4	44
167	Rh(III)-Catalyzed C-C Coupling of Diverse Arenes and 4-Acyl-1-sulfonyltriazoles via C-H Activation. <i>Organic Letters</i> , 2018, 20, 4946-4949.	2.4	32
168	Pentamethylcyclopentadienyl rhodium(III)-chiral disulfonate hybrid catalysis for enantioselective C-H bond functionalization. <i>Nature Catalysis</i> , 2018, 1, 585-591.	16.1	127
169	A comprehensive overview of directing groups applied in metal-catalysed C-H functionalisation chemistry. <i>Chemical Society Reviews</i> , 2018, 47, 6603-6743.	18.7	1,272
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171	Transition-Metal-Free Selective $\alpha$ -H Benzoylation of Tertiary Arylamines by a Dearomatization-Aromatization Sequence. <i>Chemistry - A European Journal</i> , 2018, 24, 13778-13782.	1.7	15
172	Room-Temperature C-H Bond Functionalization by Merging Cobalt and Photoredox Catalysis. <i>ACS Catalysis</i> , 2018, 8, 8115-8120.	5.5	113
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175	Iridium(I)-Catalyzed Intramolecular Cycloisomerization of Enynes: Scope and Mechanistic Course. <i>ACS Catalysis</i> , 2018, 8, 7397-7402.	5.5	26
176	Conjugate Addition of Perfluoroarenes to $\alpha,\beta$ -Unsaturated Carbonyls Enabled by an Alkoxide-Hydrosilane System: Implication of a Radical Pathway. <i>Journal of the American Chemical Society</i> , 2018, 140, 9659-9668.	6.6	15
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180	Pd-Catalyzed reductive heck reaction of olefins with aryl bromides for $C_{sp^2}-C_{sp^3}$ bond formation. <i>Chemical Communications</i> , 2018, 54, 5752-5755.	2.2	52

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182	Rhodium(III)-catalyzed directed amidation of unactivated $\text{C}(\text{sp}^3)$ -H bonds to afford 1,2-amino alcohol derivatives. <i>Chemical Communications</i> , 2018, 54, 11096-11099.	2.2	21
183	Rhodium(III)-Catalyzed <i>meta</i> -Selective C-H Alkenylation of Phenol Derivatives. <i>Organic Letters</i> , 2018, 20, 5126-5129.	2.4	35
184	Synthesis of <i>ortho</i> -Arylenediamines through Elemental Sulfur-Promoted Aerobic Dehydrogenative Aromatization of Cyclohexanones with Arylamines. <i>Organic Letters</i> , 2018, 20, 5470-5473.	2.4	41
185	Continuous Visible-Light Photoflow Approach for a Manganese-catalyzed (Het)Arene C-H Arylation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10625-10629.	7.2	83
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190	Trifunctionalization of Allenes via Cobalt-Catalyzed MHP-Assisted C-H Bond Functionalization and Molecular Oxygen Activation. <i>ACS Catalysis</i> , 2018, 8, 6645-6649.	5.5	50
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192	Beyond Friedel and Crafts: Directed Alkylation of C-H Bonds in Arenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7202-7236.	7.2	94
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194	Beyond Friedel and Crafts: Innate Alkylation of C-H Bonds in Arenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7558-7598.	7.2	82
195	Palladium(II)/Lewis Acid Cocatalyzed Oxidative Annulation of 2-Alkenylanilines and Propargylic Esters: An Access to Benzo[ <i>b</i> ]azepines. <i>Journal of Organic Chemistry</i> , 2019, 84, 10843-10851.	1.7	18
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197	Rhodium-catalysed direct hydroarylation of alkenes and alkynes with phosphines through phosphorous-assisted C-H activation. <i>Nature Communications</i> , 2019, 10, 3539.	5.8	58
198	Catalytic alkylation of unactivated $\text{C}(\text{sp}^3)$ -H bonds for $\text{C}(\text{sp}^3)$ - $\text{C}(\text{sp}^3)$ bond formation. <i>Chemical Society Reviews</i> , 2019, 48, 4921-4942.	18.7	196

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201	Nickel-Catalyzed Electrochemical Phosphorylation of Aryl Bromides. <i>Organic Letters</i> , 2019, 21, 6835-6838.	2.4	66
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204	Thiocarbamate-Directed ortho C-H Bond Alkylation with Diazo Compounds. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 4674-4678.	2.1	18
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206	Ruthenium(II)-catalyzed Alkylation of C-H Bonds in Aromatic Amides with Vinylsilanes. <i>Chemistry Letters</i> , 2019, 48, 1185-1187.	0.7	6
207	Nickel/NHC-Catalyzed Asymmetric C-H Alkylation of Fluoroarenes with Alkenes: Synthesis of Enantioenriched Fluorotetralins. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13433-13437.	7.2	74
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214	Controllable $\beta$ - or $\gamma$ -Functionalization of $\alpha$ -Diazoketones with Aromatic Amides via Cobalt-Catalyzed C-H Activation: A Regioselective Approach to Isoindolinones. <i>Organic Letters</i> , 2019, 21, 6264-6269.	2.4	21
215	Recent Advances in the Functionalization of Hydrocarbons: Synthesis of Amides and its Derivatives. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 1227-1262.	1.3	13
216	Rhodium(III)-Catalyzed C-H Activation: Ligand-Controlled Regioselective Synthesis of 4-Methyl-Substituted Dihydroisoquinolones. <i>Organic Letters</i> , 2019, 21, 5689-5693.	2.4	29

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218	Rhodium-Catalyzed Enantioselective Oxidative [3+2] Annulation of Arenes and Azabicyclic Olefins through Twofold C-H Activation. <i>Angewandte Chemie</i> , 2019, 131, 17830-17834.	1.6	31
219	Rhodium-Catalyzed Enantioselective Oxidative [3+2] Annulation of Arenes and Azabicyclic Olefins through Twofold C-H Activation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17666-17670.	7.2	85
220	Dual Benzophenone/Copper-Photocatalyzed Giese-Type Alkylation of C(sp <sup>3</sup> )-H Bonds. <i>Chemistry - A European Journal</i> , 2019, 25, 16120-16127.	1.7	28
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228	Controllable, Sequential, and Stereoselective C-H Allylic Alkylation of Alkenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 17305-17313.	6.6	28
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234	Regioselective Alkylative Cross-Coupling of Remote Unactivated C(sp <sup>3</sup> )-H Bonds. <i>Journal of the American Chemical Society</i> , 2019, 141, 14062-14067.	6.6	72
235	Palladium-Catalyzed Aerobic Benzannulation of Amines, Benzaldehydes, and $\hat{I}^2$ -Dicarbonyls. <i>Organic Letters</i> , 2019, 21, 7489-7492.	2.4	19
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241	Rhodium(III)-Catalyzed Chemo-divergent Couplings of Sulfoxonium Ylides with Oxa/azabicyclic Olefins. <i>Organic Letters</i> , 2019, 21, 8459-8463.	2.4	51
242	Hydroaminoalkylation of sterically hindered alkenes with N,N-dimethyl anilines using a scandium catalyst. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 2013-2019.	1.5	26
243	Copper-Catalyzed Sequential C <sup>2</sup> /C <sup>3</sup> -H Amination of 2-Vinylanilines with N-Fluorobenzenesulfonimide. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 1771-1776.	2.1	11
244	Trisannulation of benzamides and cyclohexadienone-tethered 1,1-disubstituted allenes initiated by Cp <sup>*</sup> Rh-catalyzed C-H activation. <i>Organic Chemistry Frontiers</i> , 2019, 6, 699-703.	2.3	10
245	Branched-Selective Direct C-Alkylation of Cyclic Ketones with Simple Alkenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4366-4370.	7.2	53
246	Cascade reaction based synthetic strategies targeting biologically intriguing indole polycycles. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 413-431.	1.5	72
247	N-Heterocyclic Carbene Ligand-Controlled Regioselectivity for Nickel-Catalyzed Hydroarylation of Vinylarenes with Benzothiazoles. <i>Organic Letters</i> , 2019, 21, 5055-5058.	2.4	23
248	Jenseits von Friedel und Crafts: immanente Alkylierung von C-H-Bindungen in Arenen. <i>Angewandte Chemie</i> , 2019, 131, 7638-7680.	1.6	24
249	Rhodium(III)-Catalyzed Regioselective C-H Activation/Annulation for the Diverse Pyrazole-Core Substituted Furans. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 4022-4032.	2.1	19
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253	Rhodium(III)-Catalyzed Oxidative Allylic C-H Indolylolation via Nucleophilic Cyclization. <i>Organic Letters</i> , 2019, 21, 4662-4666.	2.4	22
254	Ru <sup>II</sup> -Catalyzed/NH <sub>2</sub> -Assisted Selective Alkenyl C-H [5 + 1] Annulation of Alkenylanilines with Sulfoxonium Ylides to Quinolines. <i>Organic Letters</i> , 2019, 21, 4812-4815.	2.4	90

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256	Reaching Green: Heterocycle Synthesis by Transition Metal-Catalyzed C-H Functionalization in Sustainable Medium. <i>Chemistry - A European Journal</i> , 2019, 25, 9366-9384.	1.7	52
257	Pd(OAc) <sub>2</sub> -catalyzed orthogonal synthesis of 2-hydroxybenzoates and substituted cyclohexanones from acyclic unsaturated 1,3-carbonyl compounds. <i>Tetrahedron Letters</i> , 2019, 60, 1653-1657.	0.7	6
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259	Efficient Kinetic Resolution of Sulfur-Stereogenic Sulfoximines by Exploiting Cp <sup>X</sup> Rh <sup>III</sup> -Catalyzed C-H Functionalization. <i>Angewandte Chemie</i> , 2019, 131, 8994-8998.	1.6	37
260	Transition-Metal-Promoted Direct C-H Cyanoalkylation and Cyanoalkoxylation of Internal Alkenes via Radical C-C Bond Cleavage of Cycloketone Oxime Esters. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 3787-3799.	2.1	25
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262	Rhodium(III)-Catalyzed Intramolecular Olefin Hydroarylation of Aromatic Aldehydes Using a Transient Directing Group. <i>Organic Letters</i> , 2019, 21, 3959-3962.	2.4	29
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264	Exploiting Natural Complexity: Synthetic Terpenoid Alkaloids by Regioselective and Diastereoselective Hydroaminoalkylation Catalysis. <i>ChemCatChem</i> , 2019, 11, 3871-3876.	1.8	19
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267	One-Pot Protocol To Synthesize 2-Aminophenols from Anilines via Palladium-Catalyzed C-H Acetoxylation. <i>Organometallics</i> , 2019, 38, 2084-2091.	1.1	9
268	Chemoselective Borane-Catalyzed Hydroarylation of 1,3-Dienes with Phenols. <i>Angewandte Chemie</i> , 2019, 131, 1708-1713.	1.6	7
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272	Palladium-Catalyzed <i>meta</i> -Selective C-H Alkenylation and Acetoxylation of Arylacetic Acid Using a Pyrimidine Template. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3195-3202.	1.2	6



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274	Palladiumâ€¦Catalyzed Oxidation Reactions of Alkenes with Green Oxidants. <i>ChemSusChem</i> , 2019, 12, 2911-2935.	3.6	53
275	Computational Investigation of Scandium-Based Catalysts for Olefin Hydroaminoalkylation and Câ€ˆH Addition. <i>Organometallics</i> , 2019, 38, 1887-1896.	1.1	27
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278	Benzarylation of N-Allyl Anilines: Synthesis of Benzylated Indolines. <i>Journal of Organic Chemistry</i> , 2019, 84, 6072-6083.	1.7	21
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288	Direct C2â€¦Heteroarylation of Indoles by Rhodiumâ€¦Catalyzed Câ€ˆC Bond Cleavage of Secondary Alcohols. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 466-469.	1.3	8
289	Homocoupling-free iron-catalysed twofold Câ€ˆH activation/cross-couplings of aromatics via transient connection of reactants. <i>Nature Catalysis</i> , 2019, 2, 400-406.	16.1	53
290	Palladium(II)-Catalyzed Stereospecific Alkenyl Câ€ˆH Bond Alkylation of Allylamines with Alkyl Iodides. <i>ACS Catalysis</i> , 2019, 9, 4271-4276.	5.5	35

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292	Transient Ligand-Enabled Transition Metal-Catalyzed C-H Functionalization. <i>ChemSusChem</i> , 2019, 12, 2955-2969.	3.6	103
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294	Biomass-Derived Solvents for Sustainable Transition Metal-Catalyzed C-H Activation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8023-8040.	3.2	90
295	An Efficient, One-Pot Transamidation of 8-Aminoquinoline Amides Activated by Tertiary-Butyloxycarbonyl. <i>Molecules</i> , 2019, 24, 1234.	1.7	6
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297	Chemodivergent Oxidative Annulation of Benzamides and Enynes via 1,4-Rhodium Migration. <i>Organic Letters</i> , 2019, 21, 1789-1793.	2.4	35
299	Branched-Selective Direct $\alpha$ -Alkylation of Cyclic Ketones with Simple Alkenes. <i>Angewandte Chemie</i> , 2019, 131, 4410-4414.	1.6	14
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304	The literature of heterocyclic chemistry, part XVII, 2017. <i>Advances in Heterocyclic Chemistry</i> , 2019, 129, 337-418.	0.9	5
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307	Insights into the role of noncovalent interactions in distal functionalization of the aryl C(sp <sup>2</sup> )-H bond. <i>Chemical Science</i> , 2019, 10, 3826-3835.	3.7	34
308	Cu-Catalyzed [4+1] Annulation toward Indolo[2,1- <i>a</i> ]isoquinolines through Oxidative C(sp <sup>3</sup> )/C(sp <sup>2</sup> )-H Bond Bifunctionalization. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1042-1049.	1.7	12
309	Nickel-catalyzed anti-Markovnikov hydroarylation of alkenes. <i>Chemical Science</i> , 2019, 10, 3231-3236.	3.7	86

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311	Jenseits von Friedel und Crafts: dirigierte Alkylierung von C-H-Bindungen in Arenen. <i>Angewandte Chemie</i> , 2019, 131, 7278-7314.	1.6	16
312	Enantioselective Copper-Catalyzed Cyanation of Remote C(sp <sup>3</sup> )-H Bonds Enabled by 1,5-Hydrogen Atom Transfer. <i>Science</i> , 2019, 21, 490-498.	1.9	35
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314	Bidentate auxiliary-directed alkenyl C-H allylation via exo-palladacycles: synthesis of branched 1,4-dienes. <i>Chemical Communications</i> , 2019, 55, 13582-13585.	2.2	28
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317	Redox-Neutral [4 + 2] Annulation of <i>N</i> -Methoxybenzamides with Alkynes Enabled by an Osmium(II)/HOAc Catalytic System. <i>Organic Letters</i> , 2019, 21, 9904-9908.	2.4	25
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320	Developments in Cp*Co <sup>III</sup> -catalyzed C-H Bond Functionalizations. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 430-455.	1.3	45
321	Tandem Cyclization/Hydroarylation of $\beta,\gamma$ -Dienes Triggered by Scandium-Catalyzed C-H Activation. <i>ACS Catalysis</i> , 2019, 9, 599-604.	5.5	20
322	Late-Stage Diversification through Manganese-Catalyzed C-H Activation: Access to Acyclic, Hybrid, and Stapled Peptides. <i>Angewandte Chemie</i> , 2019, 131, 3514-3518.	1.6	36
323	Late-Stage Diversification through Manganese-Catalyzed C-H Activation: Access to Acyclic, Hybrid, and Stapled Peptides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3476-3480.	7.2	84
324	Computational advances aiding mechanistic understanding of silver-catalyzed carbene/nitrene/silylene transfer reactions. <i>Coordination Chemistry Reviews</i> , 2019, 382, 69-84.	9.5	42
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326	Theoretical study on the base-controlled selective linear or branched ortho-alkylation of azines catalyzed by rhodium: Mechanisms and the role of base. <i>Molecular Catalysis</i> , 2019, 462, 77-84.	1.0	9
327	Enantioselective C(sp <sup>3</sup> )-H Amidation of Thioamides Catalyzed by a Cobalt III /Chiral Carboxylic Acid Hybrid System. <i>Angewandte Chemie</i> , 2019, 131, 1165-1169.	1.6	72

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330	3d Transition Metals for Câ€“H Activation. <i>Chemical Reviews</i> , 2019, 119, 2192-2452.	23.0	1,666
331	Rhodium(III)-Catalyzed Enantioselective Coupling of Indoles and 7â€“Azabenzonorbornadienes by Câ€“H Activation/Desymmetrization. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 322-326.	7.2	82
332	Rhodium-catalyzed direct alkylation of benzylic amines using alkyl bromides. <i>Monatshefte für Chemie</i> , 2019, 150, 127-138.	0.9	1
333	Rhodium(III)-Catalyzed Enantioselective Coupling of Indoles and 7â€“Azabenzonorbornadienes by Câ€“H Activation/Desymmetrization. <i>Angewandte Chemie</i> , 2019, 131, 328-332.	1.6	31
334	Transition metal-catalyzed $\hat{\alpha}$ -alkylation of amines by C(sp <sup>3</sup> )â€“H bond activation. <i>Tetrahedron</i> , 2019, 75, 145-163.	1.0	48
335	Rhodium-Catalyzed P <sup>III</sup> -Directed <i>ortho</i> -Câ€“H Borylation of Arylphosphines. <i>Angewandte Chemie</i> , 2019, 131, 2100-2104.	1.6	19
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338	Cationic Iridium Complex-Catalyzed Intermolecular Hydroalkylation of Unactivated Alkenes with 1,3-Diketones. <i>Organic Letters</i> , 2019, 21, 741-744.	2.4	9
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344	Accessing Remote <i>meta</i> - and <i>para</i> -C(sp <sup>2</sup> )â€“H Bonds with Covalently Attached Directing Groups. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10820-10843.	7.2	273
345	Zugang zu <i>meta</i> - und <i>para</i> -C(sp <sup>2</sup> )â€“H-Bindungen mithilfe kovalent gebundener dirigierender Gruppen. <i>Angewandte Chemie</i> , 2019, 131, 10934-10958.	1.6	56

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350	Ruthenium(II)bis(carboxylate)-Catalyzed Hydrogen-Isotope Exchange by Alkene C-H Activation. <i>ChemCatChem</i> , 2019, 11, 435-438.	1.8	23
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357	Synergistic Photoredox/Transition-Metal Catalysis for Carbon-Carbon Bond Formation Reactions. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 1327-1378.	1.2	64
358	Reaction mechanism, norbornene and ligand effects, and origins of meta-selectivity of Pd/norbornene-catalyzed C-H activation. <i>Chemical Science</i> , 2020, 11, 113-125.	3.7	11
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363	Visible-Light-Induced Nickel-Catalyzed Cross-Coupling with Alkylzirconocenes from Unactivated Alkenes. <i>Chem</i> , 2020, 6, 675-688.	5.8	57

#	ARTICLE	IF	CITATIONS
364	Bidentate Directing Groups: An Efficient Tool in C–H Bond Functionalization Chemistry for the Expedient Construction of C–C Bonds. <i>Chemical Reviews</i> , 2020, 120, 1788-1887.	23.0	687
365	Nanoscale boron carbonitride semiconductors for photoredox catalysis. <i>Nanoscale</i> , 2020, 12, 3593-3604.	2.8	27
366	Nickel/NHC-Catalyzed Enantioselective Cyclization of Pyridones and Pyrimidones with Tethered Alkenes. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 1125-1130.	2.1	45
367	Ru(II)/Rh(III)-Catalyzed C(sp <sup>3</sup> )–C(sp <sup>3</sup> ) Bond Formation through C(sp <sup>3</sup> )–H Activation: Selective Linear Alkylation of 8-Methylquinolines and Ketoximes with Olefins. <i>Journal of Organic Chemistry</i> , 2020, 85, 1181-1192.	1.7	17
368	Palladium-Catalyzed Dual Ligand-Enabled Alkylation of Silyl Enol Ether and Enamide under Irradiation: Scope, Mechanism, and Theoretical Elucidation of Hybrid Alkyl Pd(I)-Radical Species. <i>ACS Catalysis</i> , 2020, 10, 1334-1343.	5.5	79
369	Efficient Heterogeneous Palladium-Catalyzed Oxidative Cascade Reactions of Enallenols to Furan and Oxaborole Derivatives. <i>Angewandte Chemie</i> , 2020, 132, 2008-2012.	1.6	10
370	Catalytic Enantio- and Regioselective Addition of Nucleophiles in the Intermolecular Hydrofunctionalization of 1,3-Dienes. <i>ACS Catalysis</i> , 2020, 10, 1060-1076.	5.5	131
371	Rapid and Efficient Construction of Indolizino[3,4,5-ab]isoindole Skeletons by a Rhodium-Catalyzed Tandem Reaction. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 68-72.	1.3	2
372	Difunctionalization of Alkenes Involving Metal Migration. <i>Angewandte Chemie</i> , 2020, 132, 8066-8079.	1.6	28
373	Difunctionalization of Alkenes Involving Metal Migration. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7990-8003.	7.2	214
374	Cu-Catalyzed Regioselective C–H Alkylation of Benzimidazoles with Aromatic Alkenes. <i>Organic Letters</i> , 2020, 22, 8250-8255.	2.4	10
375	Direct C(sp <sup>2</sup> )–H alkylation of unactivated arenes enabled by photoinduced Pd catalysis. <i>Nature Communications</i> , 2020, 11, 5266.	5.8	23
376	Rhodium-Catalyzed Deoxygenation and Borylation of Ketones: A Combined Experimental and Theoretical Investigation. <i>Journal of the American Chemical Society</i> , 2020, 142, 18118-18127.	6.6	38
377	Regiodivergent C–H Alkylation of Quinolines with Alkenes by Half-Sandwich Rare-Earth Catalysts. <i>Journal of the American Chemical Society</i> , 2020, 142, 18128-18137.	6.6	45
378	Chiral Transient Directing Groups in Transition-Metal-Catalyzed Enantioselective C–H Bond Functionalization. <i>ACS Catalysis</i> , 2020, 10, 12898-12919.	5.5	88
379	The [3+2] Annulation of CF <sub>3</sub> -Ketimines by Re Catalysis: Access to CF <sub>3</sub> -Containing Amino Heterocycles and Polyamides. <i>Science</i> , 2020, 23, 101705.	1.9	8
380	Addition of 1,3-dicarbonyl compounds to terminal alkynes catalyzed by a cationic cobalt(III) complex. <i>RSC Advances</i> , 2020, 10, 36014-36019.	1.7	4
381	Rh(III)-Catalyzed N-Nitroso Directed C–H Arylation for Facile Construction of Diverse N-Hetero Biaryl Compounds. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3825-3828.	1.7	6

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382	Copper-Catalyzed Defluorinative Hydroarylation of Alkenes with Polyfluoroarenes. <i>Angewandte Chemie</i> , 2020, 132, 23256-23260.	1.6	8
383	Theoretical Insight into Ni(0)-Catalyzed Hydroarylation of Alkenes and Arylboronic Acids. <i>Journal of Organic Chemistry</i> , 2020, 85, 13264-13271.	1.7	9
384	Rh-catalyzed tandem annulative redox-neutral arylation/amidation of aromatic tethered alkenes. <i>Chemical Science</i> , 2020, 11, 12124-12129.	3.7	11
385	Palladium-Catalyzed Asymmetric Allylic C-H Functionalization: Mechanism, Stereo- and Regioselectivities, and Synthetic Applications. <i>Accounts of Chemical Research</i> , 2020, 53, 2841-2854.	7.6	122
386	Multicomponent Synthesis of Iminocoumarins via Rhodium-Catalyzed C-H Bond Activation. <i>Journal of Organic Chemistry</i> , 2020, 85, 11006-11013.	1.7	10
387	[C <sup>N</sup> ]-Alkenyl Gold(III) Complexes by Proximal Ring-Opening of (2-Pyridyl)alkylidenecyclopropanes: Mechanistic Insights. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20049-20054.	7.2	10
388	Amide-Directed Intramolecular Co(III)-Catalyzed C-H Hydroarylation of Alkenes for the Synthesis of Dihydrobenzofurans with a Quaternary Center. <i>Journal of Organic Chemistry</i> , 2020, 85, 10261-10270.	1.7	16
389	A Predictive Model Towards Site-Selective Metalations of Functionalized Heterocycles, Arenes, Olefins, and Alkanes using TMPZnCl <sub>2</sub> ·LiCl. <i>Angewandte Chemie</i> , 2020, 132, 15102-15109.	1.6	8
390	Transition-Metal-Catalyzed Arene Alkylation and Alkenylation: Catalytic Processes for the Generation of Chemical Intermediates. <i>ACS Catalysis</i> , 2020, 10, 14080-14092.	5.5	15
391	Recent Advances in Rapid Synthesis of Non-proteinogenic Amino Acids from Proteinogenic Amino Acids Derivatives via Direct Photo-Mediated C-H Functionalization. <i>Molecules</i> , 2020, 25, 5270.	1.7	11
392	FMPHos: Expanding the Catalytic Capacity of Small-Bite-Angle Bisphosphine Ligands in Regioselective Alkene Hydrofunctionalizations. <i>ACS Catalysis</i> , 2020, 10, 14349-14358.	5.5	25
393	Zirconium-Catalyzed Hydroaminoalkylation of Alkynes for the Synthesis of Allylic Amines. <i>Journal of the American Chemical Society</i> , 2020, 142, 20566-20571.	6.6	31
394	Rhodium-catalyzed oxidative annulation of 1 <i>H</i> -indazoles with alkynes for the synthesis of indazolo[3,2- <i>a</i> ]isoquinolines via C-H bond functionalization. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 9863-9872.	1.5	11
395	Transition Metal Catalyzed Enantioselective C(sp <sup>2</sup> )-H Bond Functionalization. <i>ACS Catalysis</i> , 2020, 10, 13748-13793.	5.5	177
396	Alkyl halides as both hydride and alkyl sources in catalytic regioselective reductive olefin hydroalkylation. <i>Nature Communications</i> , 2020, 11, 5857.	5.8	56
397	Cyclic Ureate Tantalum Catalyst for Preferential Hydroaminoalkylation with Aliphatic Amines: Mechanistic Insights into Substrate Controlled Reactivity. <i>Journal of the American Chemical Society</i> , 2020, 142, 15740-15750.	6.6	28
398	Synthesis of 7-Amido Indolines by Cp*Co(III)-Catalyzed C-H Bond Amidation. <i>Journal of Organic Chemistry</i> , 2020, 85, 11190-11199.	1.7	18
399	Rhodium-catalyzed multiple C-H activation/highly meta-selective C-H amination between amidines and alkynes. <i>Chemical Communications</i> , 2020, 56, 11227-11230.	2.2	13

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401	Redox-neutral Nickel(II) Catalysis: Hydroarylation of Unactivated Alkenes with Arylboronic Acids. <i>Angewandte Chemie</i> , 2020, 132, 20579-20584.	1.6	7
402	Redox-neutral Nickel(II) Catalysis: Hydroarylation of Unactivated Alkenes with Arylboronic Acids. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20399-20404.	7.2	40
403	Insights into the Regioselectivity of Hydroheteroarylation of Allylbenzene with Pyridine Catalyzed by Ni/AlMe <sub>3</sub> with <i>N</i> -Heterocyclic Carbene: The Concerted Hydrogen Transfer Mechanism. <i>Journal of Organic Chemistry</i> , 2020, 85, 11340-11349.	1.7	13
404	Development of Brønsted Base-Photocatalyst Hybrid Systems for Highly Efficient C-C Bond Formation Reactions of Malonates with Styrenes. <i>ACS Catalysis</i> , 2020, 10, 10546-10550.	5.5	27
405	Pd-Catalyzed <i>ortho</i> -C-H Olefination of Benzenesulfonamides Directed by 7-Azaindole. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 2087-2091.	1.3	5
406	Rh(III)-Catalyzed C-Alkylation of Indoles with Maleimides at Low Catalyst Loadings. <i>ChemistrySelect</i> , 2020, 5, 12819-12822.	0.7	14
407	Development of unique dianionic Ir(III) CCC pincer complexes with a favourable spirocyclic NHC framework. <i>Science China Chemistry</i> , 2020, 63, 1761-1766.	4.2	10
408	General and efficient synthesis of 1,2-dihydropyrrolo[3,4-b]indol-3-ones via a formal [3 + 2] cycloaddition initiated by C-H activation. <i>Organic Chemistry Frontiers</i> , 2020, 7, 4057-4063.	2.3	0
409	Exploiting hexafluoroisopropanol (HFIP) in Lewis and Brønsted acid-catalyzed reactions. <i>Chemical Communications</i> , 2020, 56, 11548-11564.	2.2	166
410	Rhodium(III)-Catalyzed Asymmetric [4+1] and [5+1] Annulation of Arenes and 1,3-Enynes: A Distinct Mechanism of Allyl Formation and Allyl Functionalization. <i>Angewandte Chemie</i> , 2020, 132, 22895-22902.	1.6	8
411	Rhodium(III)-Catalyzed Asymmetric [4+1] and [5+1] Annulation of Arenes and 1,3-Enynes: A Distinct Mechanism of Allyl Formation and Allyl Functionalization. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22706-22713.	7.2	40
412	On the Superior Activity of In(I) versus In(III) Cations Toward <i>ortho</i> -C-Alkylation of Anilines and Intramolecular Hydroamination of Alkenes. <i>Journal of Organic Chemistry</i> , 2020, 85, 12947-12959.	1.7	12
413	Rhodium-catalyzed coupling of arenes and fluorinated $\beta$ -diazo diketones: synthesis of chromones. <i>Chemical Communications</i> , 2020, 56, 13169-13172.	2.2	14
414	[C <sup>N</sup> ]-Alkenyl Gold(III) Complexes by Proximal Ring-Opening of (2-Pyridyl)alkylidenecyclopropanes: Mechanistic Insights. <i>Angewandte Chemie</i> , 2020, 132, 20224-20229.	1.6	2
415	Fe(III)-Based Tandem Catalysis for Amidomethylative Multiple Substitution Reactions of $\beta$ -Substituted Styrene Derivatives. <i>ACS Catalysis</i> , 2020, 10, 10627-10636.	5.5	8
416	Intermolecular Hydroaminoalkylation of Propadiene. <i>Chemistry - A European Journal</i> , 2020, 26, 14300-14304.	1.7	16
417	Lewis Acid/Hexafluoroisopropanol: A Promoter System for Selective <i>ortho</i> -C-Alkylation of Anilines with Deactivated Styrene Derivatives and Unactivated Alkenes. <i>ACS Catalysis</i> , 2020, 10, 10794-10802.	5.5	63
418	Ruthenium-catalyzed, site-selective C-H activation: access to C5-substituted azaflavanone. <i>RSC Advances</i> , 2020, 10, 31570-31574.	1.7	6



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419	Direct remote $\hat{I}^2$ -C(sp <sup>2</sup> )â€“H olefination of $\hat{I}^2$ -aryl-substituted aliphatic aldehydes <i>via</i> palladium/enamine co-catalysis. <i>Organic Chemistry Frontiers</i> , 2020, 7, 2965-2974.	2.3	8
420	Catalytic addition of Câ€“H bonds across Câ€“C unsaturated systems promoted by iridium(<sc>i</sc>) and its group IX congeners. <i>Chemical Society Reviews</i> , 2020, 49, 7378-7405.	18.7	73
421	Computational Study on the Fate of Oxidative Directing Groups in Ru(II), Rh(III), and Pd(II) Catalyzed Câ€“H Functionalization. <i>Journal of Organic Chemistry</i> , 2020, 85, 12594-12602.	1.7	8
422	Cp*Co(III)-Catalyzed Câ€“H Hydroarylation of Alkynes and Alkenes and Beyond: A Versatile Synthetic Tool. <i>ACS Omega</i> , 2020, 5, 24974-24993.	1.6	21
423	Ligandâ€“Controlled Regiodivergence in Nickelâ€“Catalyzed Hydroarylation and Hydroalkenylation of Alkenyl Carboxylic Acids**. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23306-23312.	7.2	51
424	Cobalt-catalyzed ring-opening addition of azabenzonorbornadienes <i>via</i> C(sp <sup>3</sup> )â€“H bond activation of 8-methylquinoline. <i>Chemical Communications</i> , 2020, 56, 12570-12573.	2.2	18
425	Copperâ€“Catalyzed Defluorinative Hydroarylation of Alkenes with Polyfluoroarenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23056-23060.	7.2	30
426	Transition metal-catalyzed electrochemical processes for Câ€“C bond formation. <i>New Journal of Chemistry</i> , 2020, 44, 15321-15336.	1.4	8
427	Photo-mediated selective deconstructive geminal dihalogenation of trisubstituted alkenes. <i>Nature Communications</i> , 2020, 11, 4462.	5.8	20
428	Chiral Transient Directing Group Strategies in Asymmetric Synthesis. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3225-3238.	1.7	14
429	External oxidant-compatible phosphorus(III)-directed site-selective Câ€“H carbonylation. <i>Science Advances</i> , 2020, 6, .	4.7	20
430	Ligandâ€“Controlled Regiodivergence in Nickelâ€“Catalyzed Hydroarylation and Hydroalkenylation of Alkenyl Carboxylic Acids**. <i>Angewandte Chemie</i> , 2020, 132, 23506-23512.	1.6	6
431	Synthesis of $\hat{I}^2$ -CF <sub>3</sub> $\hat{I}^2$ -Amino Esters with an Indane Backbone by Rhenium-Catalyzed [3+2] Annulation. <i>Organic Letters</i> , 2020, 22, 8866-8871.	2.4	8
432	Ruthenium-Catalyzed C(sp <sup>2</sup> )â€“H Bond Bisallylation with Imidazopyridines as Directing Groups. <i>Journal of Organic Chemistry</i> , 2020, 85, 15167-15182.	1.7	19
433	Rhodium(III)-Catalyzed Alkenyl Câ€“H Functionalization to Dienes and Allenes. <i>Organic Letters</i> , 2020, 22, 8786-8790.	2.4	11
434	Mechanistic Studies of Nickel-Catalyzed Hydroarylation of Styrenes. <i>Organic Letters</i> , 2020, 22, 8998-9003.	2.4	22
435	Regioselective B(3,4)â€“H arylation of <i>o</i>-carboranes by weak amide coordination at room temperature. <i>Chemical Science</i> , 2020, 11, 10764-10769.	3.7	52
436	Enantioselective Synthesis of Functionalized Arenes by Nickelâ€“Catalyzed Siteâ€“Selective Hydroarylation of 1,3â€“Dienes with Aryl Boronates. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14070-14075.	7.2	48

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437	Stereoselective and Atom-Economic Alkenyl C=C Alkylation/Alkenylation in Aqueous Media by Iridium Catalysis. <i>Journal of Organic Chemistry</i> , 2020, 85, 7225-7237.	1.7	17
438	Catalytic $\pm$ -Hydroarylation of Acrylates and Acrylamides via an Interrupted Hydrodehalogenation Reaction. <i>Journal of the American Chemical Society</i> , 2020, 142, 10477-10484.	6.6	11
439	Mechanism and origins of stereo- and enantioselectivities of palladium-catalyzed hydroamination of racemic internal allenes <i>via</i> dynamic kinetic resolution: a computational study. <i>Organic Chemistry Frontiers</i> , 2020, 7, 1502-1511.	2.3	21
440	Cobalt-Catalyzed Direct C(sp <sup>2</sup> )-C Alkylation with Unactivated Alkenes. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 4026-4030.	1.2	7
441	Cobalt-Electrocatalyzed C=C Alkylation with Unactivated Alkenes. <i>ACS Catalysis</i> , 2020, 10, 6457-6462.	5.5	48
442	Enantioselective Synthesis of Functionalized Arenes by Nickel-Catalyzed Site-Selective Hydroarylation of 1,3-Dienes with Aryl Boronates. <i>Angewandte Chemie</i> , 2020, 132, 14174-14179.	1.6	11
443	A Predictive Model Towards Site-Selective Metalations of Functionalized Heterocycles, Arenes, Olefins, and Alkanes using TMPZnCl <sub>2</sub> ·LiCl. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14992-14999.	7.2	20
444	Directed Cobalt-Catalyzed <i>anti</i> -Markovnikov Hydroalkylation of Unactivated Alkenes Enabled by $\alpha$ -Co-Catalysis. <i>Organic Letters</i> , 2020, 22, 4333-4338.	2.4	33
445	C7-Indole Amidations and Alkenylations by Ruthenium(II) Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12534-12540.	7.2	70
446	Copper-Catalyzed Hydrodifluoroallylation of Terminal Alkynes to Access (E)-1,1-Difluoro-1,4-Dienes. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 2852-2856.	2.1	6
447	Nickel-Catalyzed C-H Functionalization Using A Non-directed Strategy. <i>Chem</i> , 2020, 6, 1056-1081.	5.8	99
448	3d metalla-electrocatalysis for resource economical syntheses. <i>Chemical Society Reviews</i> , 2020, 49, 4254-4272.	18.7	150
449	Nickel-Catalyzed Dicarbofunctionalization of Alkenes. <i>Chinese Journal of Chemistry</i> , 2020, 38, 1371-1394.	2.6	154
450	Thiosulfonylation of Unactivated Alkenes with Visible-Light Organic Photocatalysis. <i>ACS Catalysis</i> , 2020, 10, 8765-8779.	5.5	62
451	Cobalt/Lewis Acid Catalysis for Hydrocarbofunctionalization of Alkynes via Cooperative C=C Activation. <i>Journal of the American Chemical Society</i> , 2020, 142, 12878-12889.	6.6	51
452	Transition Metal-Catalysed Direct C-H Bond Functionalizations of 2-Pyridone Beyond C3-Selectivity. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2092-2109.	1.7	35
453	C7-Indol- $\alpha$ -Amidierung und Alkenylierung durch Ruthenium(II)-Katalyse. <i>Angewandte Chemie</i> , 2020, 132, 12635-12641.	1.6	13
454	A Transient Directing Group Strategy Enables Enantioselective Reductive Heck Hydroarylation of Alkenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8885-8890.	7.2	53

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455	Late-stage C(sp <sup>2</sup> )–H and C(sp <sup>3</sup> )–H glycosylation of <i>C</i> -aryl/alkyl glycopeptides: mechanistic insights and fluorescence labeling. <i>Chemical Science</i> , 2020, 11, 6521-6526.	3.7	76
456	A Transient Directing Group Strategy Enables Enantioselective Reductive Heck Hydroarylation of Alkenes. <i>Angewandte Chemie</i> , 2020, 132, 8970-8975.	1.6	13
457	A general platinum-catalyzed alkoxyacylation of olefins. <i>Chemical Communications</i> , 2020, 56, 5235-5238.	2.2	27
458	Mechanism and Origin of MAD-Induced Ni/N-Heterocyclic Carbene-Catalyzed Regio- and Enantioselective C–H Cyclization of Pyridines with Alkenes. <i>Chemistry - A European Journal</i> , 2020, 26, 5459-5468.	1.7	9
459	Stereospecific 1,2-Migrations of Boronate Complexes Induced by Electrophiles. <i>Angewandte Chemie</i> , 2020, 132, 17005-17018.	1.6	25
460	Experimental and Computational Studies on Cp*CyRh(III)/KO <sub>2</sub> Piv-Catalyzed Intramolecular Dehydrogenative Cross-Couplings for Building Eight-Membered Sultam/Lactam Frameworks. <i>Organic Letters</i> , 2020, 22, 5473-5478.	2.4	14
461	Remote azidation of C(sp <sup>3</sup> )–H bonds to synthesize $\beta$ -azido sulfonamides via iron-catalyzed radical relay. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 5354-5358.	1.5	12
462	DMAP and PivOH-promoted amination/allenization reaction. <i>Chemical Communications</i> , 2020, 56, 9202-9205.	2.2	7
463	Stereospecific 1,2-Migrations of Boronate Complexes Induced by Electrophiles. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16859-16872.	7.2	106
464	Tandem C–H Transformations by a Single Iridium Catalyst: Direct Access to Indoles and Indolines from <i>o</i> -Alkyl- <i>N</i> -methylanilines. <i>ACS Catalysis</i> , 2020, 10, 3152-3157.	5.5	13
465	Access to [4,3,1]-Bridged Carbocycles via Rhodium(III)-Catalyzed C–H Activation of 2-Arylindoles and Annulation with Quinone Monoacetals. <i>Journal of Organic Chemistry</i> , 2020, 85, 4543-4552.	1.7	18
466	C(sp <sup>2</sup> )–H Bond Multiple Functionalization in Air for Construction of Tetrahydrocarbazoles with Continuous Quaternary Carbons and Polycyclic Diversification. <i>Organic Letters</i> , 2020, 22, 1846-1851.	2.4	23
467	Chromium(III)-Catalyzed C(sp <sup>2</sup> )–H Alkynylation, Allylation, and Naphthalenation of Secondary Amides with Trimethylaluminum as Base. <i>Journal of the American Chemical Society</i> , 2020, 142, 4883-4891.	6.6	35
468	Mechanism of Ir-catalyzed hydrogenation: A theoretical view. <i>Coordination Chemistry Reviews</i> , 2020, 412, 213251.	9.5	33
469	Cu-Catalyzed Generation of Alkyl Radicals from Alkylsilyl Peroxides and Subsequent C(sp <sup>3</sup> )–C(sp <sup>2</sup> ) Cross-Coupling with Arylboronic Acids. <i>Journal of Organic Chemistry</i> , 2020, 85, 3973-3980.	1.7	26
470	Photoinduced C(sp <sup>2</sup> )–H/C(sp <sup>2</sup> )–H Cross-Coupling of Alkenes: Direct Synthesis of 1,3-Dienes. <i>Organic Letters</i> , 2020, 22, 1692-1697.	2.4	31
471	Nickel-Catalyzed Hydroarylation of in Situ Generated 1,3-Dienes with Arylboronic Acids Using a Secondary Homoallyl Carbonate as a Surrogate for the 1,3-Diene and Hydride Source. <i>Organic Letters</i> , 2020, 22, 1124-1129.	2.4	18
472	Regioselective Carboiodination of Styrenes: <i>N</i> -iodosuccinimide Affords Complete Reaction Regioselectivity. <i>Asian Journal of Organic Chemistry</i> , 2020, 9, 210-213.	1.3	8

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473	Diverse Approaches for Enantioselective C <sup>α</sup> H Functionalization Reactions Using Group-Independent Cp <sup>∗</sup> M <sup>III</sup> Catalysts. <i>Chemistry - A European Journal</i> , 2020, 26, 7346-7357.	1.7	176
474	Synthesis of C6-Substituted Isoquinolino[1,2- <i>b</i> ]quinazolines via Rh(III)-Catalyzed C <sup>α</sup> H Annulation with Sulfoxonium Ylides. <i>Journal of Organic Chemistry</i> , 2020, 85, 3192-3201.	1.7	62
475	Nickel-elektrokatalysierte, milde C <sup>α</sup> H-Alkylierungen bei Raumtemperatur. <i>Angewandte Chemie</i> , 2020, 132, 14258-14263.	1.6	8
476	Nickel-electrocatalyzed Mild C <sup>α</sup> H Alkylations at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14154-14159.	7.2	46
477	Iridium-Catalyzed Enantioselective Hydroarylation of Alkenes through C <sup>α</sup> H bond Activation: Experiment and Computation. <i>Chemistry - A European Journal</i> , 2020, 26, 8308-8313.	1.7	25
478	C(sp <sup>3</sup> ) C <sup>α</sup> H Bond Functionalization of Alcohols, Ketones, Nitriles, Ethers and Amides using tert-Butyl Hydroperoxide as a Radical Initiator. <i>Synlett</i> , 2021, 32, 23-29.	1.0	5
479	Enantioselective Three-Component Coupling of Heteroarenes, Cycloalkenes and Propargylic Acetates. <i>Angewandte Chemie</i> , 2021, 133, 4541-4545.	1.6	2
480	Enantioselective Three-Component Coupling of Heteroarenes, Cycloalkenes and Propargylic Acetates. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4491-4495.	7.2	25
481	Aerobic Copper-Catalyzed Salicylaldehydic C formyl C <sup>α</sup> H Arylations with Arylboronic Acids. <i>Chemistry - A European Journal</i> , 2021, 27, 3278-3283.	1.7	5
482	Rhodium(III)-Catalyzed Alkylation of 2-Arylquinazolin-4(3H)-ones with Cyclopropanols by Directing C <sup>α</sup> H Activation and Ring Opening at Ambient Temperature. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 192-195.	1.3	14
483	Synthesis of C <sub>3</sub> -alkylated benzofurans via palladium-catalyzed regiocontrolled hydro-furanization of unactivated alkenes. <i>Organic Chemistry Frontiers</i> , 2021, 8, 127-132.	2.3	23
484	DFT Mechanistic Study on Palladium-Catalyzed Redox-Neutral Hydroarylation of Unactivated Alkenes with Arylboronic Acids. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 412-420.	1.3	4
485	Thiocarbamate-directed Cp <sup>∗</sup> Co(III)-Catalyzed Olefinic C <sup>α</sup> H Amidation: Facile Access to Enamines with High <i>Z</i> -Selectivity. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 694-700.	1.2	9
486	Rh( <sup>III</sup> )-Catalyzed olefination to build diverse oxazole derivatives from functional alkynes. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 4937-4942.	1.5	4
487	Recent advances in hydride transfer-involved C(sp <sup>3</sup> ) C <sup>α</sup> H activation reactions. <i>Organic Chemistry Frontiers</i> , 2021, 8, 1364-1383.	2.3	66
488	Recent advances in chelation-assisted site- and stereoselective alkenyl C <sup>α</sup> H functionalization. <i>Chemical Society Reviews</i> , 2021, 50, 3263-3314.	18.7	105
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544	Rhodium-Catalyzed Regio-, Diastereo-, and Enantioselective Three-Component Carboamination of Dienes via C-H Activation. <i>ACS Catalysis</i> , 2021, 11, 6692-6697.	5.5	37
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550	Ortho-C-H addition of 2-substituted pyridines with alkenes and imines enabled by mono(phosphinoamido)-rare earth complexes. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6345.	1.7	10
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609	Palladium-Catalyzed C–H Amination/[2 + 3] or [2 + 4] Cyclization <i>via</i> C(sp <sup>3</sup> ) or Tj ETQqO O 0 rgBT /Overlock 10 Tf 50 42	2.4	8
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748	Nickel-catalyzed tandem isomerization/ <i>anti</i> -Markovnikov hydroarylation of unactivated internal alkenes with heteroarenes. <i>Organic Chemistry Frontiers</i> , 2023, 10, 1361-1367.	2.3	2
749	The recent advances in cobalt-catalyzed $\text{C}(\text{sp}^3)\text{-H}$ functionalization reactions. <i>Organic and Biomolecular Chemistry</i> , 2023, 21, 673-699.	1.5	1
750	$\text{Rh}(\text{III})$ -catalyzed [4 + 1] cyclization of aryl substituted pyrazoles with cyclopropanols <i>via</i> $\hat{\text{C}}\text{-H}$ activation. <i>Organic and Biomolecular Chemistry</i> , 2023, 21, 775-782.	1.5	4
751	Electrocatalytic synthesis: an environmentally benign alternative for radical-mediated aryl/alkenyl $\text{C}(\text{sp}^2)\text{-C}(\text{sp}^3)$ cross-coupling reactions. <i>Green Chemistry</i> , 2022, 24, 9373-9401.	4.6	17
757	Lone pair- $\pi$ interaction induced regioselective sulfonation of ethers under light irradiation. <i>Green Synthesis and Catalysis</i> , 2022, , .	3.7	2

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758	Ru <sub>3</sub> (CO) <sub>12</sub> -Catalyzed Modular Assembly of Hemilabile Ligands by C-H Activation of Phosphines with Isocyanates. <i>Angewandte Chemie</i> , 0, , .	1.6	0
759	Ru <sub>3</sub> (CO) <sub>12</sub> -Catalyzed Modular Assembly of Hemilabile Ligands by C-H Activation of Phosphines with Isocyanates. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	10
760	Rh(III)-Catalyzed Oxidative Annulation of 2-Aryl-1-H-benzo[ <i>d</i> ]imidazoles with 1,4-Quinones through C-H Activation. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	1
761	Palladium(II)-Catalyzed Regioselective Hydrocarbofunctionalization of <i>N</i> -Alkenyl Amides: Synthesis of Tryptamine Derivatives. <i>Organic Letters</i> , 2022, 24, 9228-9232.	2.4	1
762	Palladium-Catalyzed [3 + 2] Annulation of Aryl Halides with 7-Oxa- and 7-Azabenzonorbornadienes via C(sp <sup>2</sup> ) or sp <sup>3</sup> -C-H Activation. <i>Organic Letters</i> , 2022, 24, 8964-8968.	2.4	4
763	Catalyst-Controlled Chemodivergent Reactivity of Vinyl Cyclopropanes: A Selective Approach toward Indoles and Aniline Derivatives. <i>Organic Letters</i> , 2022, 24, 9043-9048.	2.4	10
764	Synthesis of Complex Dihydroisoquinolin Derivatives <i>via</i> Cobalt-Electrocatalyzed C-H Activation. <i>Advanced Synthesis and Catalysis</i> , 2023, 365, 23-30.	2.1	4
765	Rh(III)-Catalyzed Stereoselective C-H Homoallylation of Indolines with 4-Vinyl-1,3-dioxan-2-ones. <i>Synthesis</i> , 0, , .	1.2	1
766	Recent Developments in Enantioselective Domino Reactions. Part A: Noble Metal Catalysts. <i>Advanced Synthesis and Catalysis</i> , 2023, 365, 620-681.	2.1	11
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768	A <i>syn</i> outer-sphere oxidative addition: the reaction mechanism in Pd/Senphos-catalyzed carboboration of 1,3-enynes. <i>Chemical Science</i> , 2023, 14, 2082-2090.	3.7	8
769	Organocalcium Hydride-Catalyzed Intramolecular C(sp <sup>3</sup> )-C-H Annulation of Functionalized 2,6-Lutidines. <i>Journal of Organic Chemistry</i> , 0, , .	1.7	0
770	Addition of Alcohols onto Electron Deficient Heteroarene Salts: A Reversible Covalent Bonding Process under Basic Condition. <i>Synlett</i> , 0, , .	1.0	0
771	Mechanism and Origin of Site Selectivity and Regioselectivity of Scandium-Catalyzed Benzylic C-H Alkylation of Tertiary Anilines with Alkenes. <i>Inorganic Chemistry</i> , 2023, 62, 979-988.	1.9	2
772	Radical Arylaminoformylation of Activated Alkenes to Amides Containing All-Carbon Quaternary Stereocenters. <i>European Journal of Organic Chemistry</i> , 0, , .	1.2	0
773	Synthesis of CF <sub>3</sub> -substituted isoindolones via rhodium(III)-catalyzed carbenoid C-H functionalization of aryl hydroxamates. <i>Mendeleev Communications</i> , 2023, 33, 34-36.	0.6	2
774	Rhodium(III)-catalyzed oxidative annulation of <i>N</i> -arylbenzamidines with maleimides <i>via</i> dual C-H activation. <i>Organic and Biomolecular Chemistry</i> , 2023, 21, 1719-1724.	1.5	2
775	Highly regioselective C-H carbonylation of alkenes with phenyl formate <i>via</i> aryl to vinyl 1,4-palladium migration. <i>Organic Chemistry Frontiers</i> , 2023, 10, 1537-1543.	2.3	2

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778	Palladium-catalyzed remote <i>meta</i> -C-H olefination of cinnamates. <i>Chemical Communications</i> , 2023, 59, 5249-5252.	2.2	3
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780	Recent Advances in Rhodium-catalyzed Electrochemical C-H Activation. <i>Chemistry - an Asian Journal</i> , 2023, 18, .	1.7	3
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786	Distal <i>meta</i> -C-H functionalization of $\hat{\text{I}}$ -substituted cinnamates. <i>Chemical Science</i> , 0, , .	3.7	0
787	Cobalt(III)-catalyzed asymmetric ring-opening of 7-oxabenzonorbornadienes via indole C-H functionalization. <i>Nature Communications</i> , 2023, 14, .	5.8	15
788	Transition metal-catalyzed C-H/C=C activation and coupling with 1,3-diyne. <i>Organic and Biomolecular Chemistry</i> , 2023, 21, 2842-2869.	1.5	6
789	Synthesis of 3,4,5-trisubstituted phenols <i>via</i> Rh( $\text{scp}$ )-catalyzed alkenyl C-H activation assisted by phosphonium cations. <i>Chemical Communications</i> , 2023, 59, 3775-3778.	2.2	2
790	Transition Metal-catalyzed C-H Functionalization Through Electrocatalysis. <i>ChemSusChem</i> , 2023, 16, .	3.6	7
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792	Palladium-catalyzed highly selective <i>gem</i> -difluoroallylation of propargyl sulfonates with <i>gem</i> -difluoroallylboron. <i>Chemical Communications</i> , 2023, 59, 4241-4244.	2.2	0
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796	Synthesis of Chiral Heterocycles from Asymmetric Cascade Palladium Catalysis. <i>Current Organic Chemistry</i> , 2023, 27, .	0.9	0
797	N-Heterocyclic carbenes as privileged ligands for nickel-catalysed alkene functionalisation. <i>Chemical Society Reviews</i> , 2023, 52, 2946-2991.	18.7	26
798	Derivation of Benzothiadiazine–1,1-dioxide Scaffolds via Transition Metal-Catalyzed C–H Activation/Annulation. <i>Chinese Journal of Chemistry</i> , 2023, 41, 1973-1978.	2.6	2
799	Nickel-Catalyzed 1,1-Aminoborylation of Unactivated Terminal Alkenes. <i>ACS Catalysis</i> , 2023, 13, 5538-5543.	5.5	11
800	Diversified Synthesis of All-Carbon Quaternary <i>gem</i> -Difluorinated Cyclopropanes via Copper-Catalyzed Cross-Coupling. <i>Organic Letters</i> , 2023, 25, 2674-2679.	2.4	7
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