

Naoto Chatani

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1595650/publications.pdf>

Version: 2024-02-01

281
papers

28,135
citations

3721

89
h-index

6454

157
g-index

320
all docs

320
docs citations

320
times ranked

9850
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic Functionalization of C(sp ²)–H and C(sp ³)–H Bonds by Using Bidentate Directing Groups. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11726-11743.	7.2	1,886
2	Efficient catalytic addition of aromatic carbon-hydrogen bonds to olefins. <i>Nature</i> , 1993, 366, 529-531.	13.7	1,273
3	Catalytic Methods for C–H Bond Functionalization: Application in Organic Synthesis. <i>Advanced Synthesis and Catalysis</i> , 2003, 345, 1077-1101.	2.1	1,032
4	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
5	Cross-Couplings Using Aryl Ethers via C–O Bond Activation Enabled by Nickel Catalysts. <i>Accounts of Chemical Research</i> , 2015, 48, 1717-1726.	7.6	565
6	Nickel-Catalyzed Cross-Coupling of Aryl Methyl Ethers with Aryl Boronic Esters. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4866-4869.	7.2	389
7	Catalytic reactions involving the cleavage of carbon–cyano and carbon–carbon triple bonds. <i>Chemical Society Reviews</i> , 2008, 37, 300-307.	18.7	389
8	Nickel-Catalyzed Direct Alkylation of C–H Bonds in Benzamides and Acrylamides with Functionalized Alkyl Halides via Bidentate-Chelation Assistance. <i>Journal of the American Chemical Society</i> , 2013, 135, 5308-5311.	6.6	382
9	Nickel-Catalyzed Direct Arylation of C(sp ³)–H Bonds in Aliphatic Amides via Bidentate-Chelation Assistance. <i>Journal of the American Chemical Society</i> , 2014, 136, 898-901.	6.6	371
10	Nickel Catalysts/ <i>N,N</i> -Bidentate Directing Groups: An Excellent Partnership in Directed C–H Activation Reactions. <i>Chemistry Letters</i> , 2015, 44, 410-421.	0.7	367
11	Palladium-Catalyzed Direct Ethynylation of C(sp ³)–H Bonds in Aliphatic Carboxylic Acid Derivatives. <i>Journal of the American Chemical Society</i> , 2011, 133, 12984-12986.	6.6	366
12	Nickel-Catalyzed Chelation-Assisted Transformations Involving Ortho C–H Bond Activation: Regioselective Oxidative Cycloaddition of Aromatic Amides to Alkynes. <i>Journal of the American Chemical Society</i> , 2011, 133, 14952-14955.	6.6	363
13	Catalytic Addition of Aromatic Carbon–Hydrogen Bonds to Olefins with the Aid of Ruthenium Complexes. <i>Bulletin of the Chemical Society of Japan</i> , 1995, 68, 62-83.	2.0	336
14	Ru ₃ (CO) ₁₂ -Catalyzed Coupling Reaction of sp ³ C–H Bonds Adjacent to a Nitrogen Atom in Alkylamines with Alkenes. <i>Journal of the American Chemical Society</i> , 2001, 123, 10935-10941.	6.6	326
15	Rhodium-Catalyzed C(sp ²)– or C(sp ³)–H Bond Functionalization Assisted by Removable Directing Groups. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8304-8329.	7.2	309
16	Modular Synthesis of Phenanthridine Derivatives by Oxidative Cyclization of 2-Isocyanobiphenyls with Organoboron Reagents. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11363-11366.	7.2	279
17	C–H activation. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	277
18	Nickel-Catalyzed Reaction of Arylzinc Reagents with N-Aromatic Heterocycles: A Straightforward Approach to C–H Bond Arylation of Electron-Deficient Heteroaromatic Compounds. <i>Journal of the American Chemical Society</i> , 2009, 131, 12070-12071.	6.6	276

#	ARTICLE	IF	CITATIONS
19	Ruthenium-Catalyzed Carbonylation at Ortho C-H Bonds in Aromatic Amides Leading to Phthalimides: C-H Bond Activation Utilizing a Bidentate System. <i>Journal of the American Chemical Society</i> , 2009, 131, 6898-6899.	6.6	260
20	Highly Regioselective Carbonylation of Unactivated C(sp ³)-H Bonds by Ruthenium Carbonyl. <i>Journal of the American Chemical Society</i> , 2011, 133, 8070-8073.	6.6	253
21	Nickel-Catalyzed Suzuki-Miyaura Reaction of Aryl Fluorides. <i>Journal of the American Chemical Society</i> , 2011, 133, 19505-19511.	6.6	253
22	Highly Selective Skeletal Reorganization of 1,6- and 1,7-Enynes to 1-Vinylcycloalkenes Catalyzed by [RuCl ₂ (CO) ₃] ₂ . <i>Journal of the American Chemical Society</i> , 1994, 116, 6049-6050.	6.6	245
23	Ruthenium-Catalyzed Functionalization of Aryl Carbon-Oxygen Bonds in Aromatic Ethers with Organoboron Compounds. <i>Journal of the American Chemical Society</i> , 2004, 126, 2706-2707.	6.6	240
24	PtCl ₂ -Catalyzed Conversion of 1,6- and 1,7-Enynes to 1-Vinylcycloalkenes. Anomalous Bond Connection in Skeletal Reorganization of Enynes. <i>Organometallics</i> , 1996, 15, 901-903.	1.1	227
25	Palladium-Catalyzed Direct Alkynylation of C-H Bonds in Benzenes. <i>Organic Letters</i> , 2009, 11, 3250-3252.	2.4	227
26	Ni(II)-Catalyzed Oxidative Coupling between C(sp ²)-H in Benzamides and C(sp ³)-H in Toluene Derivatives. <i>Journal of the American Chemical Society</i> , 2014, 136, 15509-15512.	6.6	227
27	Nickel-Catalyzed Amination of Aryl Pivalates by the Cleavage of Aryl C-O Bonds. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2929-2932.	7.2	221
28	A Catalytic Approach for the Functionalization of C(sp ³)-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1683-1684.	7.2	213
29	Cobalt(II)-catalyzed C-H functionalization using an N,N'-bidentate directing group. <i>Coordination Chemistry Reviews</i> , 2017, 350, 117-135.	9.5	203
30	Construction of Novel Polycyclic Ring Systems by Transition-Metal-Catalyzed Cycloisomerization of Ene-Ynes. Interception of a Carbenoid Intermediate in Skeletal Reorganization of Enynes. <i>Journal of the American Chemical Society</i> , 1998, 120, 9104-9105.	6.6	194
31	Catalytic skeletal reorganization of enynes through electrophilic activation of alkynes: double cleavage of C=C double and triple bonds. <i>Chemical Communications</i> , 2009, , 371-384.	2.2	193
32	Ruthenium-catalyzed ortho-C-H bond alkylation of aromatic amides with α,β -unsaturated ketones via bidentate-chelation assistance. <i>Chemical Science</i> , 2013, 4, 2201.	3.7	190
33	Carbonylation at sp ³ C-H Bonds Adjacent to a Nitrogen Atom in Alkylamines Catalyzed by Rhodium Complexes. <i>Journal of the American Chemical Society</i> , 2000, 122, 12882-12883.	6.6	188
34	Ruthenium-catalyzed direct arylation of C-H bonds in aromatic amides containing a bidentate directing group: significant electronic effects on arylation. <i>Chemical Science</i> , 2013, 4, 664-670.	3.7	187
35	Rhodium-Catalyzed Silylation and Intramolecular Arylation of Nitriles via the Silicon-Assisted Cleavage of Carbon-Cyano Bonds. <i>Journal of the American Chemical Society</i> , 2008, 130, 15982-15989.	6.6	170
36	Strategic evolution in transition metal-catalyzed directed C-H bond activation and future directions. <i>Coordination Chemistry Reviews</i> , 2021, 431, 213683.	9.5	170

#	ARTICLE	IF	CITATIONS
37	Ru ₃ (CO) ₁₂ -Catalyzed Silylation of Benzylic C-H Bonds in Arylpyridines and Arylpyrazoles with Hydrosilanes via C-H Bond Cleavage. <i>Journal of the American Chemical Society</i> , 2004, 126, 12792-12793.	6.6	168
38	Nickel-catalyzed reductive cleavage of aryl C-O bonds in alkoxy- and pivaloxyarenes using hydrosilanes as a mild reducing agent. <i>Chemical Communications</i> , 2011, 47, 2946.	2.2	168
39	Rh(I)-Catalyzed Silylation of Aryl and Alkenyl Cyanides Involving the Cleavage of C-C and Si-Si Bonds. <i>Journal of the American Chemical Society</i> , 2006, 128, 8152-8153.	6.6	167
40	Direct Observation of the Oxidative Addition of the Aryl Carbon-Oxygen Bond to a Ruthenium Complex and Consideration of the Relative Reactivity between Aryl Carbon-Oxygen and Aryl Carbon-Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 2006, 128, 16516-16517.	6.6	164
41	Ru ₃ (CO) ₁₂ -Catalyzed Coupling of Heteroaromatic C-H/CO/Olefins. Regioselective Acylation of the Imidazole Ring. <i>Journal of the American Chemical Society</i> , 1996, 118, 493-494.	6.6	163
42	Nickel-Catalyzed Reductive and Borylative Cleavage of Aromatic Carbon-Nitrogen Bonds in N-Aryl Amides and Carbamates. <i>Journal of the American Chemical Society</i> , 2014, 136, 5587-5590.	6.6	160
43	Devising Boron Reagents for Orthogonal Functionalization through Suzuki-Miyaura Cross-Coupling. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3565-3568.	7.2	158
44	Ru ₃ (CO) ₁₂ -Catalyzed Decarbonylative Cleavage of a C-C Bond of Alkyl Phenyl Ketones. <i>Journal of the American Chemical Society</i> , 1999, 121, 8645-8646.	6.6	157
45	Skeletal Reorganization of Enynes to 1-Vinylcycloalkenes Catalyzed by GaCl ₃ . <i>Journal of the American Chemical Society</i> , 2002, 124, 10294-10295.	6.6	155
46	The Ru(cod)(cot)-Catalyzed Alkenylation of Aromatic C-H Bonds with Alkenyl Acetates. <i>Journal of the American Chemical Society</i> , 2007, 129, 9858-9859.	6.6	154
47	Palladium-Catalyzed Direct <i>ortho</i> -Alkynylation of Aromatic Carboxylic Acid Derivatives. <i>Organic Letters</i> , 2012, 14, 354-357.	2.4	154
48	Visible Light-mediated Direct Arylation of Arenes and Heteroarenes Using Diaryliodonium Salts in the Presence and Absence of a Photocatalyst. <i>Chemistry Letters</i> , 2013, 42, 1203-1205.	0.7	154
49	Ni ⁰ -catalyzed Direct Amination of Anisoles Involving the Cleavage of Carbon-Oxygen Bonds. <i>Chemistry Letters</i> , 2009, 38, 710-711.	0.7	153
50	Ru ₃ (CO) ₁₂ -Catalyzed Reaction of Pyridylbenzenes with Carbon Monoxide and Olefins. Carbonylation at a C-H Bond in the Benzene Ring. <i>Journal of Organic Chemistry</i> , 1997, 62, 2604-2610.	1.7	151
51	Rhodium-Catalyzed Carbon-Silicon Bond Activation for Synthesis of Benzosilole Derivatives. <i>Journal of the American Chemical Society</i> , 2012, 134, 19477-19488.	6.6	150
52	Nickel-catalyzed borylation of arenes and indoles via C-H bond cleavage. <i>Chemical Communications</i> , 2015, 51, 6508-6511.	2.2	149
53	Ru ₃ (CO) ₁₂ -Catalyzed Cyclocarbonylation of 1,6-Enynes to Bicyclo[3.3.0]octenones. <i>Journal of Organic Chemistry</i> , 1997, 62, 3762-3765.	1.7	148
54	Rhodium-Catalyzed Borylation of Aryl 2-Pyridyl Ethers through Cleavage of the Carbon-Oxygen Bond: Borylative Removal of the Directing Group. <i>Journal of the American Chemical Society</i> , 2015, 137, 1593-1600.	6.6	143

#	ARTICLE	IF	CITATIONS
55	Rhodium-Catalyzed Coupling of 2-Silylphenylboronic Acids with Alkynes Leading to Benzosiloles: Catalytic Cleavage of the Carbon-Silicon Bond in Trialkylsilyl Groups. <i>Journal of the American Chemical Society</i> , 2009, 131, 7506-7507.	6.6	140
56	Palladium-Catalyzed Direct Synthesis of Phosphole Derivatives from Triarylphosphines through Cleavage of Carbon-Hydrogen and Carbon-Phosphorus Bonds. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11892-11895.	7.2	140
57	Direct Arylation of C(sp ³)-H Bonds in Aliphatic Amides with Diaryliodonium Salts in the Presence of a Nickel Catalyst. <i>Journal of Organic Chemistry</i> , 2014, 79, 11933-11939.	1.7	131
58	Nickel-Catalyzed Alkylative Cross-Coupling of Anisoles with Grignard Reagents via C-O Bond Activation. <i>Journal of the American Chemical Society</i> , 2016, 138, 6711-6714.	6.6	131
59	Ru(II)- and Pt(II)-Catalyzed Cycloisomerization of <i>o</i> -Aryl-1-alkynes. Generation of Carbocationic Species from Alkynes and Transition Metal Halides and Its Interception by an Aromatic Ring. <i>Journal of Organic Chemistry</i> , 2000, 65, 4913-4918.	1.7	130
60	Iridium(I)-Catalyzed Cycloisomerization of Enynes. <i>Journal of Organic Chemistry</i> , 2001, 66, 4433-4436.	1.7	130
61	Cycloisomerization of <i>o</i> -Aryl-1-alkynes: GaCl_3 as a Highly Electrophilic Catalyst for Alkyne Activation. <i>Journal of Organic Chemistry</i> , 2002, 67, 1414-1417.	1.7	129
62	Rhodium-Catalyzed Reductive Cleavage of Carbon-Cyano Bonds with Hydrosilane: A Catalytic Protocol for Removal of Cyano Groups. <i>Journal of the American Chemical Society</i> , 2009, 131, 3174-3175.	6.6	126
63	The ruthenium-catalyzed silylation of aromatic C-H bonds with triethylsilane. <i>Journal of Organometallic Chemistry</i> , 2003, 686, 134-144.	0.8	125
64	Nickel(II)-Catalyzed Direct Arylation of C-H Bonds in Aromatic Amides Containing an 8-Aminoquinoline Moiety as a Directing Group. <i>Journal of Organic Chemistry</i> , 2014, 79, 11922-11932.	1.7	125
65	Platinum and Ruthenium Chloride-Catalyzed Cycloisomerization of 1-Alkyl-2-ethynylbenzenes: Interception of I^- -Activated Alkynes with a Benzylic C-H Bond. <i>Journal of Organic Chemistry</i> , 2009, 74, 5471-5475.	1.7	122
66	Nickel-Catalyzed Cross-Coupling Reaction of Alkenyl Methyl Ethers with Aryl Boronic Esters. <i>Organic Letters</i> , 2009, 11, 4890-4892.	2.4	121
67	Synthesis of 2-Boryl- and Silylindoles by Copper-Catalyzed Borylative and Silylative Cyclization of 2-Alkenylaryl Isocyanides. <i>Journal of Organic Chemistry</i> , 2010, 75, 4841-4847.	1.7	121
68	Phenyltrimethylammonium Salts as Methylation Reagents in the Nickel-Catalyzed Methylation of C-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3162-3165.	7.2	120
69	Nickel-Catalyzed Reaction of C-H Bonds in Amides with I_2 : <i>ortho</i> -Iodination via the Cleavage of C(sp ²)-H Bonds and Oxidative Cyclization to β -Lactams via the Cleavage of C(sp ³)-H Bonds. <i>ACS Catalysis</i> , 2016, 6, 4323-4329.	5.5	119
70	A New Chelation-Assistance Mode for a Ruthenium-Catalyzed Silylation at the C-H Bond in Aromatic Ring with Hydrosilanes. <i>Chemistry Letters</i> , 2002, 31, 396-397.	0.7	117
71	1,3-Dicyclohexylimidazol-2-ylidene as a Superior Ligand for the Nickel-Catalyzed Cross-Couplings of Aryl and Benzyl Methyl Ethers with Organoboron Reagents. <i>Organic Letters</i> , 2014, 16, 5572-5575.	2.4	116
72	Nickel-Catalyzed Alkynylation of Anisoles via C-O Bond Cleavage. <i>Organic Letters</i> , 2015, 17, 680-683.	2.4	115

#	ARTICLE	IF	CITATIONS
73	A GaCl ₃ -Catalyzed [4+1] Cycloaddition of α,β -Unsaturated Carbonyl Compounds and Isocyanides Leading to Unsaturated β -Lactone Derivatives. <i>Journal of the American Chemical Society</i> , 2003, 125, 7812-7813.	6.6	114
74	Chelation-Assisted Nickel-Catalyzed C-H Functionalizations. <i>Trends in Chemistry</i> , 2019, 1, 524-539.	4.4	114
75	C-H Functionalization at Sterically Congested Positions by the Platinum-Catalyzed Borylation of Arenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 12211-12214.	6.6	112
76	Ru ₃ (CO) ₁₂ -Catalyzed Cyclocarbonylation of α,β -Unsaturated β -Butyrolactones. <i>Journal of the American Chemical Society</i> , 1998, 120, 5335-5336.	6.6	109
77	Catalytic Cross-Coupling Reaction of Esters with Organoboron Compounds and Decarbonylative Reduction of Esters with HCOONH ₄ : A New Route to Acyl Transition Metal Complexes through the Cleavage of Acyl-Oxygen Bonds in Esters. <i>Journal of Organic Chemistry</i> , 2004, 69, 5615-5621.	1.7	108
78	Nickel-Catalyzed Cross-Coupling of Anisoles with Alkyl Grignard Reagents via C-O Bond Cleavage. <i>Organic Letters</i> , 2015, 17, 4352-4355.	2.4	106
79	Ru ₃ (CO) ₁₂ -Catalyzed Site-Selective Carbonylation Reactions at a C-H Bond in Aza-Heterocycles. <i>Journal of the American Chemical Society</i> , 1998, 120, 11522-11523.	6.6	105
80	Nickel-catalyzed reductive cleavage of aryl alkyl ethers to arenes in absence of external reductant. <i>Chemical Science</i> , 2015, 6, 3410-3414.	3.7	100
81	Rhodium-Catalyzed Si-F Exchange Reaction between Fluorobenzenes and a Disilane. <i>Catalytic Reaction Involving Cleavage of C-F Bonds</i> . <i>Chemistry Letters</i> , 1998, 27, 157-158.	0.7	99
82	Nickel-Catalyzed C-H Functionalization Using A Non-directed Strategy. <i>CheM</i> , 2020, 6, 1056-1081.	5.8	99
83	Palladium-Catalyzed Cyclocoupling of 2-Halobiaryls with Isocyanides via the Cleavage of Carbon-Hydrogen Bonds. <i>Journal of Organic Chemistry</i> , 2010, 75, 4835-4840.	1.7	98
84	Rhodium-Catalyzed Reaction of N-(2-Pyridinyl)piperazines with CO and Ethylene. A Novel Carbonylation at a C-H Bond in the Piperazine Ring. <i>Organometallics</i> , 1997, 16, 3615-3622.	1.1	95
85	Rh(II)-Catalyzed Skeletal Reorganization of 1,6- and 1,7-Enynes through Electrophilic Activation of Alkynes. <i>Journal of the American Chemical Society</i> , 2009, 131, 15203-15211.	6.6	95
86	Dicumyl Peroxide as a Methylating Reagent in the Ni-Catalyzed Methylation of Ortho C-H Bonds in Aromatic Amides. <i>Organic Letters</i> , 2016, 18, 1698-1701.	2.4	95
87	The Ruthenium-Catalyzed Addition of α,β -Unsaturated C-H Bonds in Aldehydes to Olefins. <i>Chemistry Letters</i> , 2001, 30, 386-387.	0.7	94
88	A New Synthetic Method for the Preparation of Indenones from Aromatic Imines. Ru ₃ (CO) ₁₂ -Catalyzed Carbonylation at an ortho C-H Bond in the Aromatic Imines. <i>Journal of Organic Chemistry</i> , 1997, 62, 5647-5650.	1.7	93
89	Rhodium-Catalyzed Alkylation of C-H Bonds in Aromatic Amides with α,β -Unsaturated Esters. <i>Organic Letters</i> , 2014, 16, 5148-5151.	2.4	92
90	Cobalt-catalyzed chelation assisted C-H allylation of aromatic amides with unactivated olefins. <i>Chemical Communications</i> , 2016, 52, 10129-10132.	2.2	91

#	ARTICLE	IF	CITATIONS
91	Ni(0)/NHC-catalyzed amination of N-heteroaryl methyl ethers through the cleavage of carbon-oxygen bonds. <i>Tetrahedron</i> , 2012, 68, 5157-5161.	1.0	90
92	Renaissance of Organic Synthesis Using Isocyanides. <i>Chemistry Letters</i> , 2011, 40, 330-340.	0.7	89
93	Nickel-Catalyzed Cross-Coupling Reactions of Unreactive Phenolic Electrophiles via C-O Bond Activation. <i>Topics in Current Chemistry</i> , 2016, 374, 41.	3.0	89
94	Nickel-Mediated Decarbonylation of Simple Unstrained Ketones through the Cleavage of Carbon-Carbon Bonds. <i>Journal of the American Chemical Society</i> , 2017, 139, 1416-1419.	6.6	89
95	Catalytic [4+1] Cycloaddition of α,β -Unsaturated Carbonyl Compounds with Isocyanides. <i>Journal of the American Chemical Society</i> , 2005, 127, 761-766.	6.6	87
96	Combined Theoretical and Experimental Studies of Nickel-Catalyzed Cross-Coupling of Methoxyarenes with Arylboronic Esters via C-O Bond Cleavage. <i>Journal of the American Chemical Society</i> , 2017, 139, 10347-10358.	6.6	87
97	Skeletal Reorganization of Enynes Catalyzed by InCl_3 . <i>Organic Letters</i> , 2006, 8, 2155-2158.	2.4	85
98	The Ruthenium-Catalyzed Addition of C-H Bonds in Aromatic Nitriles to Olefins. <i>Chemistry Letters</i> , 1999, 28, 1083-1084.	0.7	84
99	$\text{Ru}_3(\text{CO})_{12}$ -Catalyzed Intermolecular Cyclocoupling of Ketones, Alkenes or Alkynes, and Carbon Monoxide. [2 + 2 + 1] Cycloaddition Strategy for the Synthesis of Functionalized β -Butyrolactones. <i>Journal of the American Chemical Society</i> , 2000, 122, 12663-12674.	6.6	84
100	Brønsted Acid Catalyzed Formal Insertion of Isocyanides into a C-O Bond of Acetals. <i>Journal of the American Chemical Society</i> , 2007, 129, 11431-11437.	6.6	82
101	Catalytic Transformations Involving the Activation of sp^2 Carbon-Oxygen Bonds. <i>Topics in Organometallic Chemistry</i> , 2012, , 35-53.	0.7	82
102	Acylation of Five-Membered N-Heteroaromatic Compounds by Ruthenium Carbonyl-Catalyzed Direct Carbonylation at a C-H Bond. <i>Journal of Organic Chemistry</i> , 2000, 65, 4039-4047.	1.7	81
103	Ruthenium- and Rhodium-Catalyzed Direct Carbonylation of the Ortho C-H Bond in the Benzene Ring of N-Arylpyrazoles. <i>Journal of Organic Chemistry</i> , 2004, 69, 4433-4440.	1.7	81
104	Catalytic Arylation of a C-H Bond in Pyridine and Related Six-Membered N-Heteroarenes Using Organozinc Reagents. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1357-1365.	1.7	79
105	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
106	The First Catalytic Carbonylative [4 + 1] Cycloaddition Using a 1,3-Conjugated System. A New Transformation of α,β -Unsaturated Imines to Unsaturated β -Lactams Catalyzed by $\text{Ru}_3(\text{CO})_{12}$. <i>Journal of the American Chemical Society</i> , 1999, 121, 1758-1759.	6.6	78
107	The Ruthenium-Catalyzed Reductive Decarboxylation of Esters: Catalytic Reactions Involving the Cleavage of Acyl-Oxygen Bonds of Esters. <i>Journal of the American Chemical Society</i> , 2001, 123, 4849-4850.	6.6	78
108	The Nickel(II)-Catalyzed Direct Benzylation, Allylation, Alkylation, and Methylation of C-H Bonds in Aromatic Amides Containing an 8-Aminoquinoline Moiety as the Directing Group. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 438-446.	2.0	78

#	ARTICLE	IF	CITATIONS
109	Ruthenium-Catalyzed Addition of Aromatic Esters at the ortho C-H Bonds to Olefins. <i>Chemistry Letters</i> , 1996, 25, 109-110.	0.7	76
110	Direct Carbonylation at a C-H Bond in the Benzene Ring of 2-Phenyloxazolines Catalyzed by Ru ₃ (CO) ₁₂ . Scope, Limitations, and Mechanistic Aspects. <i>Journal of Organic Chemistry</i> , 2000, 65, 1475-1488.	1.7	75
111	Palladium-catalyzed synthesis of dibenzothiophene derivatives via the cleavage of carbon-sulfur and carbon-hydrogen bonds. <i>Chemical Science</i> , 2016, 7, 2587-2591.	3.7	74
112	Catalytic Carbonylation Reactions of Benzyne Derivatives. <i>Journal of the American Chemical Society</i> , 2001, 123, 12686-12687.	6.6	72
113	Ruthenium Carbonyl-Catalyzed [2 + 2 + 1]- Cycloaddition of Ketones, Olefins, and Carbon Monoxide, Leading to Functionalized β -Butyrolactones. <i>Journal of the American Chemical Society</i> , 1999, 121, 7160-7161.	6.6	70
114	Rhodium-Catalyzed Alkenylation of Nitriles via Silicon-Assisted C-CN Bond Cleavage. <i>Organic Letters</i> , 2010, 12, 1864-1867.	2.4	68
115	Chelation-Assisted Nickel-Catalyzed Oxidative Annulation via Double C-H Activation/Alkyne Insertion Reaction. <i>Chemistry - A European Journal</i> , 2016, 22, 1362-1367.	1.7	68
116	Mechanistic Study of the Ru(H) ₂ (CO)(PPh ₃) ₃ -Catalyzed Addition of C-H Bonds in Aromatic Esters to Olefins. <i>Chemistry Letters</i> , 2001, 30, 918-919.	0.7	67
117	Nickel-Catalyzed Formal Homocoupling of Methoxyarenes for the Synthesis of Symmetrical Biaryls via C-O Bond Cleavage. <i>Organic Letters</i> , 2015, 17, 6142-6145.	2.4	67
118	Rhodium-Catalyzed Silylation of Aromatic Carbon-Hydrogen Bonds in 2-Arylpyridines with Disilane. <i>Chemistry - an Asian Journal</i> , 2008, 3, 1585-1591.	1.7	64
119	Nickel-catalyzed C-H/N-H annulation of aromatic amides with alkynes in the absence of a specific chelation system. <i>Chemical Science</i> , 2017, 8, 6650-6655.	3.7	64
120	Carbonylative [5 + 1] Cycloaddition of Cyclopropyl Imines Catalyzed by Ruthenium Carbonyl Complex. <i>Journal of Organic Chemistry</i> , 2000, 65, 9230-9233.	1.7	63
121	Remote Control by Steric Effects. <i>Science</i> , 2014, 343, 850-851.	6.0	63
122	Ruthenium-catalyzed reaction of 1,6-diynes with hydrosilanes and carbon monoxide: a third way of incorporating CO. <i>Journal of the American Chemical Society</i> , 1993, 115, 11614-11615.	6.6	62
123	Ruthenium-Catalyzed Coupling of Aromatic Carbon-Hydrogen Bonds in Aromatic Imidates with Olefins. <i>Chemistry Letters</i> , 1999, 28, 19-20.	0.7	62
124	A New Synthetic Route to Heteroarylsilanes via Ruthenium-Catalyzed C-H/SiR ₃ Coupling. <i>Chemistry Letters</i> , 2000, 29, 750-751.	0.7	62
125	Palladium-Catalyzed Synthesis of Six-Membered Benzofused Phosphacycles via Carbon-Phosphorus Bond Cleavage. <i>Organic Letters</i> , 2015, 17, 70-73.	2.4	62
126	Palladium(II)-Catalyzed ortho-C-H Arylation/Alkylation of N-Benzoyl α -Amino Ester Derivatives. <i>Chemistry - A European Journal</i> , 2014, 20, 4548-4553.	1.7	61

#	ARTICLE	IF	CITATIONS
127	Ruthenium-Catalyzed C ^α H/CO/Olefin Coupling Reaction of N-Arylpyrazoles. Extraordinary Reactivity of N-Arylpyrazoles toward Carbonylation at C ^α H Bonds. <i>Journal of Organic Chemistry</i> , 2003, 68, 7538-7540.	1.7	60
128	Ru ₃ (CO) ₁₂ -Catalyzed C ^α H/CO/Olefin Coupling of N-Pyridylindolines. Direct Carbonylation at a C ^α H Bond β to the Pyridine Nitrogen. <i>Journal of Organic Chemistry</i> , 2002, 67, 7557-7560.	1.7	59
129	Cobalt(II)-Catalyzed Acyloxylation of C ^α H Bonds in Aromatic Amides with Carboxylic Acids. <i>Organic Letters</i> , 2018, 20, 1062-1065.	2.4	58
130	Nickel-catalyzed Cross-coupling of Anisole Derivatives with Trimethylaluminum through the Cleavage of Carbon ^α Oxygen Bonds. <i>Chemistry Letters</i> , 2015, 44, 1729-1731.	0.7	57
131	Rhodium(I)-Catalyzed C ⁸ -Alkylation of 1-Naphthylamide Derivatives with Alkenes through a Bidentate Picolinamide Chelation System. <i>ACS Catalysis</i> , 2018, 8, 6699-6706.	5.5	56
132	Ruthenium-catalyzed cyclocarbonylation of aliphatic amides through the regioselective activation of unactivated C(sp ³) ^α H bonds. <i>Tetrahedron</i> , 2013, 69, 4466-4472.	1.0	55
133	Palladium Nanoparticle ^α Catalyzed Direct Ethynylation of Aliphatic Carboxylic Acid Derivatives <i>via</i> C(sp ³) ^α H Bond Functionalization. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 1631-1637.	2.1	55
134	Nickel-catalyzed oxidative C ^α H/N ^α H annulation of <i>ortho</i> -heteroaromatic compounds with alkynes. <i>Chemical Science</i> , 2019, 10, 3242-3248.	3.7	55
135	Nickel ^α Catalyzed Cyclization of Difluoro ^α Substituted 1,6 ^α Enynes with Organozinc Reagents through the Stereoselective Activation of C ^α F Bonds: Synthesis of Bicyclo[3.2.0]heptene Derivatives. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8717-8720.	7.2	54
136	Ni(II)-Catalyzed Sulfonylation of <i>ortho</i> -C ^α H Bonds in Aromatic Amides Utilizing an <i>ortho</i> -Bidentate Directing Group. <i>Chemistry Letters</i> , 2015, 44, 902-904.	0.7	54
137	Ru ₃ (CO) ₁₂ - and Rh ₄ (CO) ₁₂ -Catalyzed Reactions of Pyridylolefins or N-(2-Pyridyl)enamines with CO and Olefins. Carbonylation at Olefinic C ^α H Bonds. <i>Journal of Organic Chemistry</i> , 1998, 63, 5129-5136.	1.7	53
138	Reaction of Terminal Alkynes with Hydrazines To Give Nitriles, Catalyzed by TpRuCl(PPh ₃) ₂ : A Novel Catalytic Transformation Involving a Vinylidene Ruthenium Intermediate. <i>Organometallics</i> , 2002, 21, 3845-3847.	1.1	53
139	GaCl ₃ -Catalyzed Insertion of Isocyanides into a C ^α O Bond in Cyclic Ketals and Acetals. <i>Organic Letters</i> , 2005, 7, 3697-3699.	2.4	53
140	Rhodium-catalyzed Borylation of Aryl and Alkenyl Pivalates through the Cleavage of Carbon ^α Oxygen Bonds. <i>Chemistry Letters</i> , 2015, 44, 366-368.	0.7	53
141	Palladium-Catalyzed Synthesis of 2,3-Disubstituted Benzothiophenes via the Annulation of Aryl Sulfides with Alkynes. <i>Organic Letters</i> , 2016, 18, 4312-4315.	2.4	53
142	Rh(III)-Catalyzed Reaction of β -Carbonyl Sulfoxonium Ylides and Alkenes: Synthesis of Indanones via [4 + 1] Cycloaddition. <i>Organic Letters</i> , 2020, 22, 1375-1379.	2.4	52
143	Ru ₃ (CO) ₁₂ -catalyzed reaction of α -imines with carbon monoxide leading to bicyclic β,β -unsaturated lactams. <i>Journal of Organometallic Chemistry</i> , 1999, 579, 177-181.	0.8	51
144	Nickel ^α Catalyzed Borylation of Aryl and Benzyl α -Pyridyl Ethers: A Method for Converting a Robust <i>ortho</i> -Directing Group. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 2417-2421.	2.1	51

#	ARTICLE	IF	CITATIONS
145	Nickel-Catalyzed C–F/N–H Annulation of Aromatic Amides with Alkynes: Activation of C–F Bonds under Mild Reaction Conditions. <i>Journal of the American Chemical Society</i> , 2020, 142, 17306-17311.	6.6	51
146	Ruthenium-Catalyzed Reaction of β,β -Unsaturated Imines with Carbon Monoxide and Alkenes Leading to β,β -Unsaturated β -Butyrolactams: Involvement of Direct Carbonylation at Olefinic C–H Bonds as a Key Step. <i>Journal of Organic Chemistry</i> , 2002, 67, 7014-7018.	1.7	50
147	Rhodium-catalyzed regioselective addition of the ortho C–H bond in aromatic amides to the C=C double bond in β,β -unsaturated β -lactones and dihydrofurans. <i>Chemical Science</i> , 2016, 7, 240-245.	3.7	49
148	Rhenium-Catalyzed Regio- and Stereoselective Addition of Imines to Terminal Alkynes Leading to α -Alkylideneallylamines. <i>Journal of the American Chemical Society</i> , 2012, 134, 8762-8765.	6.6	48
149	Rhodium-Catalyzed Alkylation of C–H Bonds in Aromatic Amides with Styrenes via Bidentate Chelation Assistance. <i>Organic Letters</i> , 2015, 17, 3584-3587.	2.4	48
150	Rhodium-Catalyzed Reaction of N-Acylpiperazines with CO and Ethylene. Carbonylation at a C-H Bond Directed by an Amido Group. <i>Tetrahedron Letters</i> , 1997, 38, 7565-7568.	0.7	46
151	Catalytic Hydrogenolysis of C–O Bonds in Aryl Ethers. <i>ChemCatChem</i> , 2011, 3, 1410-1411.	1.8	44
152	Lewis Acid-Promoted Imine Synthesis by the Insertion of Isocyanides into C–H Bonds of Electron-Rich Aromatic Compounds. <i>Organic Letters</i> , 2007, 9, 3351-3353.	2.4	43
153	Nickel-Catalyzed Reaction of Benzamides with Bicyclic Alkenes: Cleavage of C–H and C–N Bonds. <i>Organic Letters</i> , 2019, 21, 1774-1778.	2.4	42
154	Transient Imine as a Directing Group for the Metal-Free α -C–H Borylation of Benzaldehydes. <i>Journal of the American Chemical Society</i> , 2021, 143, 2920-2929.	6.6	42
155	Ruthenium-Catalyzed Carbonylation of α -C–H Bonds in Arylacetamides: α -C–H Bond Activation Utilizing a Bidentate Chelation System. <i>ChemCatChem</i> , 2012, 4, 1733-1736.	1.8	41
156	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
157	Nickel-Catalyzed Decarboxylation of Aryl Carbamates for Converting Phenols into Aromatic Amines. <i>Journal of the American Chemical Society</i> , 2019, 141, 7261-7265.	6.6	41
158	Rhodiumkatalysierte α - und β -C–H-Funktionalisierungen mit entfernbaren dirigierenden Gruppen. <i>Angewandte Chemie</i> , 2019, 131, 8390-8416.	1.6	41
159	Rhodium-Catalyzed Reductive Decyanation of Nitriles Using Hydrosilane as a Reducing Agent: Scope, Mechanism and Synthetic Application. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 582-587.	1.0	41
160	Ruthenium-Catalyzed Direct ortho-Alkynylation of Arenes with Chelation Assistance. <i>Synlett</i> , 2012, 23, 2763-2767.	1.0	40
161	Nickel-catalyzed decarbonylation of α -acylated N-heteroarenes. <i>Chemical Science</i> , 2019, 10, 6666-6671.	3.7	40
162	Ruthenium-catalyzed carbonylative cycloaddition reactions involving carbonyl and imino groups as assembling units. <i>Chemical Record</i> , 2008, 8, 201-212.	2.9	39

#	ARTICLE	IF	CITATIONS
163	The Iridium(III)-Catalyzed Direct C(sp ²)–H and C(sp ³)–H Alkynylation of 2-Acylimidazoles with Various Alkynyl Bromides: Understanding the Full Catalytic Cycle. <i>ACS Catalysis</i> , 2020, 10, 5173-5178.	5.5	38
164	Cobalt(II)-catalyzed chelation-assisted C–H iodination of aromatic amides with I ₂ . <i>Chemical Communications</i> , 2018, 54, 1359-1362.	2.2	37
165	Palladium-Catalyzed Site-Selective [3+2] Annulation via Benzylic and <i>meta</i> C–H Bond Activation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5189-5192.	7.2	37
166	Ynolate Chemistry. Reaction of a Silylynolate with Aziridines Leading to β-Lactams. <i>Journal of Organic Chemistry</i> , 2001, 66, 169-174.	1.7	36
167	Nickel/N-Heterocyclic Carbene-Catalyzed Suzuki–Miyaura Type Cross-Coupling of Aryl Carbamates. <i>Journal of Organic Chemistry</i> , 2016, 81, 9409-9414.	1.7	36
168	Rhodium-Catalyzed Alkenylation of C–H Bonds in Aromatic Amides with Alkynes. <i>Organic Letters</i> , 2017, 19, 2234-2237.	2.4	36
169	Ruthenium-Catalyzed Carbonylative Cycloaddition of α-Keto Lactones with Alkenes or Alkynes: The Participation of an Ester-Carbonyl Group in Cycloaddition Reactions as the Two-Atom Assembling Unit. <i>Journal of Organic Chemistry</i> , 2003, 68, 1591-1593.	1.7	35
170	GaCl ₃ - and TiCl ₄ -Catalyzed Insertion of Isocyanides into a C–S Bond of Dithioacetals. <i>Organic Letters</i> , 2008, 10, 5223-5225.	2.4	35
171	An unusual endo-selective C–H hydroarylation of norbornene by the Rh(I)-catalyzed reaction of benzamides. <i>Nature Communications</i> , 2017, 8, 1448.	5.8	35
172	The Directing Group: A Tool for Efficient and Selective C–F Bond Activation. <i>ACS Catalysis</i> , 2021, 11, 12915-12930.	5.5	35
173	Pd(II)-catalyzed Chelation-assisted Cross Dehydrogenative Coupling between Unactivated C(sp ³)–H Bonds in Aliphatic Amides and Benzylic C–H Bonds in Toluene Derivatives. <i>Chemistry Letters</i> , 2015, 44, 1365-1367.	0.7	34
174	Nickel-Catalyzed C–H Bond Functionalization Utilizing an N,N'-Bidentate Directing Group. <i>Topics in Organometallic Chemistry</i> , 2015, , 19-46.	0.7	34
175	The Pd-catalyzed C–H alkylation of <i>ortho</i> -methyl-substituted aromatic amides with maleimide occurs preferentially at the <i>ortho</i> -methyl C–H bond over the <i>ortho</i> -C–H bond. <i>Chemical Communications</i> , 2019, 55, 9983-9986.	2.2	34
176	C–O Activation by a Rhodium Bis(N-Heterocyclic Carbene) Catalyst: Aryl Carbamates as Arylating Reagents in Directed C–H Arylation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1877-1880.	7.2	33
177	Iridium-Catalyzed Regioselective C(sp ³)–H Silylation of 4-Alkylpyridines at the Benzylic Position with Hydrosilanes Leading to 4-(1-Silylalkyl)pyridines. <i>ACS Catalysis</i> , 2017, 7, 3152-3156.	5.5	33
178	Nickel-Catalyzed Cross-Electrophile Coupling between C(sp ²)–F and C(sp ²)–Cl Bonds by the Reaction of <i>ortho</i> -Fluoro-Aromatic Amides with Aryl Chlorides. <i>ACS Catalysis</i> , 2021, 11, 4644-4649.	5.5	33
179	The Ru ₃ (CO) ₁₂ -Catalyzed Intermolecular [2 + 2 + 1] Cyclocoupling of Imines, Alkenes or Alkynes, and Carbon Monoxide: A New Synthesis of Functionalized β-Lactams. <i>Synthesis</i> , 2000, 2000, 925-928.	1.2	32
180	Skeletal Reorganization of Enynes into 1-Vinylcycloalkenes in Ionic Liquids. <i>Journal of Organic Chemistry</i> , 2004, 69, 8541-8543.	1.7	32

#	ARTICLE	IF	CITATIONS
181	Rhodium-catalyzed C-H—CO—olefin coupling reactions — A chelation-assisted direct carbonylation at the ortho C—H bond in the benzene ring of 2-arylpyridines. <i>Canadian Journal of Chemistry</i> , 2005, 83, 755-763.	0.6	32
182	Rhodium-catalyzed cross-coupling of aryl carbamates with arylboron reagents. <i>Tetrahedron</i> , 2015, 71, 4484-4489.	1.0	32
183	Nickel-Catalyzed Reductive Cleavage of Carbon—Oxygen Bonds in Anisole Derivatives Using Diisopropylaminoborane. <i>ACS Catalysis</i> , 2018, 8, 7475-7483.	5.5	32
184	Palladium-catalyzed Cyclization of Bisphosphines to Phosphacycles via the Cleavage of Two Carbon—Phosphorus Bonds. <i>Chemistry Letters</i> , 2017, 46, 1296-1299.	0.7	31
185	The Direct Rh(III)-Catalyzed C—H Amidation of Aniline Derivatives Using a Pyrimidine Directing Group: The Selective Solvent Controlled Synthesis of 1,2-Diaminobenzenes and Benzimidazoles. <i>Organic Letters</i> , 2020, 22, 3655-3660.	2.4	31
186	2H- and 13C-Labeling Studies on Skeletal Reorganization of 1,6-Enynes. <i>Chemistry Letters</i> , 2007, 36, 1494-1495.	0.7	30
187	Catalytic Double Carbon—Boron Bond Formation for the Synthesis of Cyclic Diarylborinic Acids as Versatile Building Blocks for Extended Heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2069-2073.	7.2	30
188	Rhodium-Catalyzed Synthesis of Germoles via the Activation of Carbon—Germanium Bonds. <i>Organic Letters</i> , 2011, 13, 3282-3284.	2.4	29
189	A Synthesis of 3,4-Dihydroisoquinolin-1(2H)-one via the Rhodium-Catalyzed Alkylation of Aromatic Amides with N-Vinylphthalimide. <i>Journal of Organic Chemistry</i> , 2018, 83, 13587-13594.	1.7	29
190	Theoretical Studies of Rhodium-Catalyzed Borylation of Nitriles through Cleavage of Carbon—Cyano Bonds. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 655-669.	2.0	28
191	Novel Synthetic Approach to Arylboronates via Rhodium-Catalyzed Carbon—Cyano Bond Cleavage of Nitriles. <i>Synthesis</i> , 2012, 44, 2999-3002.	1.2	27
192	Phenyltrimethylammonium Salts as Methylation Reagents in the Nickel-Catalyzed Methylation of C—H Bonds. <i>Angewandte Chemie</i> , 2016, 128, 3214-3217.	1.6	27
193	Nickel-catalyzed C—O/N—H, C—S/N—H, and C—CN/N—H annulation of aromatic amides with alkynes: C—O, C—S, and C—CN activation. <i>Chemical Science</i> , 2021, 12, 1772-1777.	3.7	26
194	Computational Mechanistic Study on the Nickel-Catalyzed C—H/N—H Oxidative Annulation of Aromatic Amides with Alkynes: The Role of the Nickel (0) Ate Complex. <i>Organometallics</i> , 2019, 38, 248-255.	1.1	25
195	Ruthenium(II)-Catalyzed Chelation-Assisted Arylation of C—H Bonds with Diaryliodonium Salts. <i>Asian Journal of Organic Chemistry</i> , 2014, 3, 48-51.	1.3	23
196	Pyrimidine-directed metal-free C—H borylation of 2-pyrimidylanilines: a useful process for tetra-coordinated triarylborane synthesis. <i>Chemical Science</i> , 2021, 12, 11447-11454.	3.7	22
197	C—H Borylation by Platinum Catalysis. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 332-342.	2.0	21
198	Ir ₄ (CO) ₁₂ -Catalyzed Benzylic C(sp ³)—H Silylation of 2-Alkylpyridines with Hydrosilanes Leading to 2-(1-Silylalkyl)pyridines. <i>Journal of Organic Chemistry</i> , 2017, 82, 13649-13655.	1.7	21

#	ARTICLE	IF	CITATIONS
199	Cobalt-Catalyzed C-H Iodination of Aromatic Amides with Molecular Iodine through the Use of a 2-Aminophenylloxazoline-Based Bidentate-Chelation System. <i>Organic Letters</i> , 2019, 21, 5971-5976.	2.4	21
200	Catalytic Reactions Involving Silylmetallation as the Key Step.. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 1993, 51, 421-433.	0.0	21
201	Synthesis of [RhCl(CO)(cyclopentadienone)] ₂ from [RhCl(cod)] ₂ and a 1,6-diyne under CO: application to Rh(i)-catalyzed tandem [2+2+1] carbonylative cycloaddition of diynes and Claisen rearrangement. <i>Chemical Communications</i> , 2010, 46, 3345.	2.2	20
202	Synthesis of Six-membered Silacycles by Intramolecular Nucleophilic Substitution at Silicon Involving the Cleavage of Carbon-Silicon Bonds. <i>Chemistry Letters</i> , 2013, 42, 238-240.	0.7	20
203	Rhodium-Catalyzed C-O Bond Alkynylation of Aryl Carbamates with Propargyl Alcohols. <i>Organic Letters</i> , 2018, 20, 2108-2111.	2.4	20
204	Rh-catalyzed branch-selective C-H alkylation of aryl sulfonamides with vinylsilanes. <i>Chemical Science</i> , 2020, 11, 389-395.	3.7	20
205	Iridium(III)-Catalyzed Branch-Selective C-H Alkenylation of Aniline Derivatives with Alkenes. <i>ACS Catalysis</i> , 2021, 11, 5463-5471.	5.5	20
206	Reductive Oligomerization of Carbon Monoxide by Rhodium-Catalyzed Reaction with Hydrosilanes. <i>Journal of the American Chemical Society</i> , 1997, 119, 4303-4304.	6.6	19
207	Efficient Synthesis of 1-Adamantanecarboxaldehyde by the GaCl ₃ -Mediated Carbonylation of Adamantane under Mild Reaction Conditions. <i>Organic Letters</i> , 2004, 6, 4323-4325.	2.4	19
208	Rh-Catalyzed [3+2] annulation reactions of cyclopropanones with amides. <i>Chemical Communications</i> , 2019, 55, 5740-5742.	2.2	19
209	GaCl ₃ -Catalyzed Skeletal Rearrangement of $\hat{1}\pm, \hat{1}\pm$ -Trisubstituted Aldehydes. <i>Organic Letters</i> , 2005, 7, 331-334.	2.4	18
210	Rhodium-catalyzed mono-selective C-H alkylation of benzenesulfonamides with terminal alkenes. <i>Chemical Communications</i> , 2019, 55, 10503-10506.	2.2	18
211	Rhodium-Catalyzed Reductive Cleavage of Aryl Carbamates Using Isopropanol as a Reductant. <i>Synlett</i> , 2017, 28, 2569-2572.	1.0	17
212	Rh ^{III} -Catalyzed Double Dehydrogenative Coupling of Free 1-Naphthylamines with $\hat{1}\pm, \hat{1}^2$ -Unsaturated Esters. <i>Chemistry - A European Journal</i> , 2020, 26, 11093-11098.	1.7	17
213	Iridium(III)-Catalyzed Direct Intermolecular Chemoselective $\hat{1}\pm$ -Amidation of Masked Aliphatic Carboxylic Acids with Dioxazolones via Nitrene Transfer. <i>ACS Catalysis</i> , 2021, 11, 7126-7131.	5.5	17
214	Palladium-Catalyzed Carbonylation of 2-(Propargyl)allyl Phosphates Leading to Highly Unsaturated $\hat{1}\beta$ -Lactones. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1397-1399.	7.2	16
215	Ruthenium-Catalyzed Reactions via sp C-H, sp ² C-H, sp ³ C-H, and C-Halogen Bond Activations. , 2005, , 219-255.		16
216	Iridium/N-heterocyclic carbene-catalyzed C-H borylation of arenes by diisopropylaminoborane. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 654-661.	1.3	16

#	ARTICLE	IF	CITATIONS
217	Nickel-catalyzed reductive defunctionalization of esters in the absence of an external reductant: activation of C=O bonds. <i>Chemical Communications</i> , 2019, 55, 13610-13613.	2.2	16
218	Rhodium-Catalyzed Alkylation of C-H Bonds in Aromatic Amides with Non-activated Alkenes: The Possible Generation of Carbene Intermediates from Alkenes. <i>Chemistry - A European Journal</i> , 2019, 25, 6915-6919.	1.7	16
219	Pd(OAc) ₂ -catalyzed Lactonization of Arylacetamides Involving Oxidation of C-H Bonds. <i>Chemistry Letters</i> , 2015, 44, 621-623.	0.7	15
220	Ruthenium(II)-catalyzed acyloxylation of the ortho-C-H bond in 2-aryl-imidazoles with carboxylic acids. <i>Organic Chemistry Frontiers</i> , 2020, 7, 2955-2959.	2.3	15
221	GaCl ₃ -catalyzed reactions utilizing isocyanides as a C1 source. <i>Pure and Applied Chemistry</i> , 2006, 78, 275-280.	0.9	14
222	Nickel-catalyzed Suzuki-Miyaura cross-coupling of C-F bonds. <i>Organic Chemistry Frontiers</i> , 2021, 8, 3783-3787.	2.3	14
223	Synthesis of β -alkylidene pyrrolines by the Rhodium-Catalyzed Cyclization of Terminal Alkynes with Homopropargylic Amines. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 2315-2318.	2.1	13
224	Chelation-assisted carbonylation reactions catalyzed by Rh and Ru complexes. <i>Pure and Applied Chemistry</i> , 2010, 82, 1443-1451.	0.9	13
225	Rhodium(III)-Catalyzed Oxidative C-H Alkylation of Aniline Derivatives with Allylic Alcohols To Produce β -Aryl Ketones. <i>ACS Catalysis</i> , 2022, 12, 4394-4401.	5.5	13
226	Palladium-Catalyzed Carbonylation of Yne Esters Leading to β -Alkylidene α,β -Unsaturated γ -Lactones. <i>Organic Letters</i> , 2005, 7, 4385-4387.	2.4	12
227	Ru ₃ (CO) ₁₂ -Catalyzed Carbonylation of C-H Bonds by Triazole-Directed C-H Activation. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 1315-1318.	1.3	12
228	Metal-Catalyzed Aromatic C-O Bond Activation/Transformation. <i>Topics in Organometallic Chemistry</i> , 2018, , 103-140.	0.7	12
229	Rh(i)- and Rh(ii)-catalyzed C-H alkylation of benzylamines with alkenes and its application in flow chemistry. <i>Chemical Science</i> , 2021, 12, 3202-3209.	3.7	12
230	Nickel-Catalyzed Benzoylation of C-H Bonds in Aromatic Amides with Benzyltrimethylammonium Halides. <i>Israel Journal of Chemistry</i> , 2017, 57, 964-967.	1.0	11
231	A Cationic Iridium-catalyzed C(sp ³) ₂ -H Silylation of 2-Alkyl-1,3-azoles at the α -Position in the 2-Alkyl Group Leading to 2-(1-Silylalkyl)-1,3-azoles. <i>Chemistry Letters</i> , 2018, 47, 385-388.	0.7	11
232	Palladium-catalyzed 1,1-alkynylbromination of alkenes with alkynyl bromides. <i>Chemical Science</i> , 2021, 12, 12326-12332.	3.7	11
233	A computational study of cobalt-catalyzed C-H iodination reactions using a bidentate directing group with molecular iodine. <i>Organic Chemistry Frontiers</i> , 2019, 6, 537-543.	2.3	10
234	Rh(II)-Catalyzed C-H Alkylation of Benzylamines with Unactivated Alkenes: The Influence of Acid on Linear and Branch Selectivity. <i>Organic Letters</i> , 2021, 23, 4273-4278.	2.4	10

#	ARTICLE	IF	CITATIONS
235	Rh(III)-Catalyzed [3 + 2] Annulation of Aniline Derivatives with Vinylsilanes <i>via</i> C-H Activation/Alkene Cyclization: Access to Highly Regioselective Indoline Derivatives. ACS Catalysis, 2021, 11, 12375-12383.	5.5	10
236	Rhodium-Catalyzed Carbon-Cyano Bond Cleavage Reactions Using Organosilicon Reagents. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2010, 68, 1112-1122.	0.0	9
237	Skeletal Reorganization of Enynes Catalyzed by a Ru(II)-Ru(III) Mixed-valence Complex under an Atmosphere of O ₂ or CO. Chemistry Letters, 2013, 42, 1565-1567.	0.7	9
238	Nickel-catalyzed Ring-opening Cross-coupling of Cyclic Alkenyl Ethers with Arylboronic Esters via Carbon-Oxygen Bond Cleavage. Chemistry Letters, 2016, 45, 1277-1279.	0.7	9
239	C=O Activation by a Rhodium Bis(N-heterocyclic Carbene) Catalyst: Aryl Carbamates as Arylating Reagents in Directed C-H Arylation. Angewandte Chemie, 2017, 129, 1903-1906.	1.6	9
240	Effect of Sulfonamide and Carboxamide Ligands on the Structural Diversity of Bimetallic Rh ^{II} -Rh ^{II} Cores: Exploring the Catalytic Activity of These Newly Synthesized Rh ₂ Complexes. Inorganic Chemistry, 2021, 60, 3534-3538.	1.9	9
241	Nickel-Catalyzed C-F/N-H Annulation of 2-(2-Fluoroaryl) N-Heteroaromatic Compounds with Alkynes: Activation of C-F Bonds. Synthesis, 2021, 53, 3075-3080.	1.2	9
242	Rh(<i>scpi</i>)-catalysed imine-directed C-H functionalization <i>via</i> the oxidative [3 + 2] cycloaddition of benzylamine derivatives with maleimides. Chemical Communications, 2022, 58, 1123-1126.	2.2	9
243	Potassium tert-Butoxide Mediated O-Arylation of N-Hydroxyphthalimide and Oximes with Diaryliodonium Salts. Synthesis, 2014, 46, 2312-2316.	1.2	8
244	Conversion of 3,3,3-Trisubstituted Prop-1-yne with <i>tert</i> -Butylhydrazine into 3,3,3-Trisubstituted Propionitriles Catalyzed by TpRh(C ₂ H ₄) ₂ /P(2-furyl) ₃ . Journal of Organic Chemistry, 2016, 81, 3161-3167.	1.7	8
245	Carboxylate-Assisted Iridium (III)-Catalyzed C(sp ²)-H Amidation of 2-Aroylimidazoles With Dioxazolones. Journal of Organic Chemistry, 2022, 87, 8183-8193.	1.7	8
246	Catalytic Double Carbon-Boron Bond Formation for the Synthesis of Cyclic Diarylboronic Acids as Versatile Building Blocks for π -Extended Heteroarenes. Angewandte Chemie, 2017, 129, 2101-2105.	1.6	7
247	Ru ₃ (CO) ₁₂ -Catalyzed Reaction of 1,6-Diyne, Carbon Monoxide, and Water via the Reductive Coupling of Carbon Monoxide. Organic Letters, 2020, 22, 8747-8751.	2.4	7
248	Palladium-Catalyzed Site-Selective [3+2] Annulation via Benzylic and meta C-H Bond Activation. Angewandte Chemie, 2021, 133, 5249-5252.	1.6	7
249	Direct Carbonylation at a C-H Bond Catalyzed by Transition Metal Complexes.. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 1998, 56, 443-452.	0.0	7
250	Origin of the Enhanced Reactivity in the <i>ortho</i> C-H Borylation of Benzaldehydes with BBr ₃ . Organic Letters, 2022, 24, 213-217.	2.4	7
251	Ruthenium(II)-catalyzed Alkylation of C-H Bonds in Aromatic Amides with Vinylsilanes. Chemistry Letters, 2019, 48, 1185-1187.	0.7	6
252	Rh(I)-catalyzed Addition of the <i>ortho</i> C-H Bond in Aryl Sulfonamides to Maleimides. Chemistry Letters, 2020, 49, 1053-1057.	0.7	6

#	ARTICLE	IF	CITATIONS
253	Ruthenium(II)-catalyzed Arylation of <i>ortho</i> -C-H Bonds in 2-Aroyl-imidazoles with Aryl Halides. <i>Chemistry Letters</i> , 2021, 50, 589-592.	0.7	6
254	Rhenium(I)-catalyzed reaction of terminal alkynes with imines leading to allylamine derivatives. <i>Pure and Applied Chemistry</i> , 2014, 86, 283-289.	0.9	5
255	Palladium-Catalyzed Site-Selective [5 + 1] Annulation of Aromatic Amides with Alkenes: Acceleration of β -Hydride Elimination by Maleic Anhydride from Palladacycle. <i>ACS Catalysis</i> , 2022, 12, 1595-1600.	5.5	5
256	Reaction Path Determination of Rhodium(I)-Catalyzed C-H Alkylation of <i>N</i> -8-Aminoquinolinyl Aromatic Amides with Maleimides. <i>Journal of Organic Chemistry</i> , 2022, 87, 737-743.	1.7	5
257	Amination of Arylboronic Compounds via the Copper-Catalyzed Addition of Arylboronic Esters to Azodicarboxylates. <i>Synthesis</i> , 2015, 47, 3746-3750.	1.2	4
258	A New Class of Redox Isomerization of <i>N</i> -Alkylpropargylamines into <i>N</i> -Alkylideneallylamines Catalyzed by a ReBr(CO) ₅ /Amine <i>N</i> -oxide System. <i>Organic Letters</i> , 2019, 21, 1760-1765.	2.4	4
259	Fluoride anion-initiated bis-trifluoromethylation of phenyl aromatic carboxylates with (trifluoromethyl)trimethylsilane. <i>Chemical Communications</i> , 2020, 56, 11661-11664.	2.2	4
260	Mechanism and Origins of Regiochemical Control in Rh(III)-Catalyzed Oxidative C-H Alkenylation and Coupling Sequence of Unprotected 1-Naphthylamines with β,β -Unsaturated Esters. <i>Organometallics</i> , 2021, 40, 1371-1378.	1.1	4
261	Nickel-catalyzed C-F/O-H [4+2] Annulation of <i>ortho</i> -Fluoro Aromatic Carboxylic Acids with Alkynes. <i>Chemistry Letters</i> , 2021, 50, 1990-1992.	0.7	4
262	Development of Chelation-Assisted Transformations Involving C-H Bond Activation: Utilization of a Bidentate Directing Group. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2013, 71, 406-416.	0.0	4
263	Palladium-catalyzed synthesis of nitriles from <i>N</i> -phthaloyl hydrazones. <i>Chemical Communications</i> , 2022, 58, 3799-3802.	2.2	4
264	Selective Nickel-Catalyzed Hydrodefluorination of Amides Using Sodium Borohydride. <i>Journal of Organic Chemistry</i> , 2022, 87, 9969-9976.	1.7	4
265	Catalytic Synthesis of Heterocycles via the Cleavage of Carbon-Heteroatom Bonds. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2018, 76, 1185-1196.	0.0	3
266	Nickel-catalyzed C=O/O-H Annulation of Salicylate Esters with Alkynes: Activation of C=O Bond in Esters. <i>Chemistry Letters</i> , 2021, 50, 510-512.	0.7	3
267	Nickel-Catalyzed <i>Suzuki-Miyaura</i> Cross-Coupling Involving C=O Bond Activation. <i>Helvetica Chimica Acta</i> , 2021, 104, e2100089.	1.0	3
268	Direct and Regioselective Introduction of Acetals into Imidazoles at the 2-Position by an Iridium-Catalyzed Reaction with Formates in the Presence of Hydrosilanes. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 1662-1665.	1.2	2
269	An Unusual Perpendicular Metallacycle Intermediate is the Origin of Branch Selectivity in the Rh(II)-Catalyzed C-H Alkylation of Aryl Sulfonamides with Vinylsilanes. <i>Organometallics</i> , 0, , .	1.1	2
270	Double 1,2-Migration of Bromine and Silicon in Directed C-H Alkynylation Reactions with Silyl-Substituted Alkynyl Bromides through an Iridium Vinylidene Intermediate. <i>Organometallics</i> , 2022, 41, 20-28.	1.1	2

#	ARTICLE	IF	CITATIONS
271	Title is missing!. <i>Angewandte Chemie</i> , 2003, 115, 1435-1437.	1.6	1
272	C α -H Activation - Far from Over. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 1135-1135.	1.3	1
273	Co ₂ (CO) ₈ -Catalyzed Reactions of Acetals or Lactones with Hydrosilanes and Carbon Monoxide. A New Access to the Preparation of 1,2-Diol Derivatives through Siloxymethylation. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 81-90.	2.0	1
274	Synthesis of α -Amino Acid Derivatives through the Iridium-catalyzed α -C-H Amidation of 2-Acylimidazoles with Dioxazolones under Continuous-flow. <i>Chemistry Letters</i> , 2021, 50, 1722-1724.	0.7	1
275	Nickel-catalyzed C-F/N-H Alkyne Annulation of Anilines: The Synthesis of Indole Derivatives via C-F Bond Activation. <i>Chemistry Letters</i> , 2022, 51, 546-548.	0.7	1
276	Skeletal Reorganization of Enynes to 1-Vinylcycloalkenes Catalyzed by GaCl ₃ .. <i>ChemInform</i> , 2003, 34, no-no.	0.1	0
277	Ru ₃ (CO) ₁₂ -Catalyzed C α -H/CO/Olefin Coupling of N-Pyridylindolines. Direct Carbonylation at a C α -H Bond α to the Pyridine Nitrogen.. <i>ChemInform</i> , 2003, 34, no.	0.1	0
278	Ruthenium-Catalyzed Carbonylative Cycloaddition of α -Keto Lactones with Alkenes or Alkynes: The Participation of an Ester-Carbonyl Group in Cycloaddition Reactions as the Two-Atom Assembling Unit.. <i>ChemInform</i> , 2003, 34, no.	0.1	0
279	Palladium-Catalyzed Carbonylation of 2-(Propargyl)allyl Phosphates Leading to Highly Unsaturated α -Lactones.. <i>ChemInform</i> , 2003, 34, no.	0.1	0
280	A GaCl ₃ -Catalyzed [4 + 1] Cycloaddition of α,β -Unsaturated Carbonyl Compounds and Isocyanides Leading to Unsaturated α -Lactone Derivatives.. <i>ChemInform</i> , 2003, 34, no.	0.1	0
281	Rhodium-catalyzed Reaction of Alkynes with Hydrosilanes and <i>n</i> -Octyl Isocyanide: A Silylimination/1,4-Hydrosilylation Sequence Leading to β -Silylmethyl- <i>N</i> -silylenamines. <i>Chemistry Letters</i> , 2020, 49, 357-360.	0.7	0