David Milstein

List of Publications by Year
in descending order

400 papers	43,321 citations	1301 109 h-index	3034 188 g-index
469 all docs	469 docs citations	469 times ranked	14902 citing authors

#	Article	IF	Citations
1	Cyclometalated Phosphine-Based Pincer Complexes:â€‰ Mechanistic Insight in Catalysis, Coordination, and Bond Activation. Chemical Reviews, 2003, 103, 1759-1792.	47.7	1,553
2	Applications of Acceptorless Dehydrogenation and Related Transformations in Chemical Synthesis. Science, 2013, 341, 1229712.	12.6	1,219
3	Direct Synthesis of Amides from Alcohols and Amines with Liberation of H ₂. Science, 2007, 317, 790-792.	12.6	1,168
4	Metalâ€“Ligand Cooperation by Aromatizationâ€“Dearomatization: A New Paradigm in Bond Activation and â€œGreenâ€•Catalysis. Accounts of Chemical Research, 2011, 44, 588-602.	15.6	947
5	Metalâ€“Ligand Cooperation. Angewandte Chemie - International Edition, 2015, 54, 12236-12273.	13.8	947
6	Bond Activation and Catalysis by Ruthenium Pincer Complexes. Chemical Reviews, 2014, 114, 12024-12087.	47.7	811
7	A general, selective, and facile method for ketone synthesis from acid chlorides and organotin compounds catalyzed by palladium. Journal of the American Chemical Society, 1978, 100, 3636-3638.	13.7	776
8	Metal Insertion into Câˆ’C Bonds in Solution. Angewandte Chemie - International Edition, 1999, 38, 870-883.	13.8	751
9	Facile Conversion of Alcohols into Esters and Dihydrogen Catalyzed by New Ruthenium Complexes. Journal of the American Chemical Society, 2005, 127, 10840-10841.	13.7	724
10	Efficient hydrogenation of organic carbonates, carbamates and formates indicates alternative routes to methanol based on CO2 and CO. Nature Chemistry, 2011, 3, 609-614.	13.6	563
11	Hydrogenation and Dehydrogenation Iron Pincer Catalysts Capable of Metalâ€“Ligand Cooperation by Aromatization/Dearomatization. Accounts of Chemical Research, 2015, 48, 1979-1994.	15.6	521
12	Efficient Homogeneous Catalytic Hydrogenation of Esters to Alcohols. Angewandte Chemie - International Edition, 2006, 45, 1113-1115.	13.8	502
13	Lowâ€Pressure Hydrogenation of Carbon Dioxide Catalyzed by an Iron Pincer Complex Exhibiting Noble Metal Activity. Angewandte Chemie - International Edition, 2011, 50, 9948-9952.	13.8	479
14	Highly Active Pd(II) PCP-Type Catalysts for the Heck Reaction. Journal of the American Chemical Society, 1997, 119, 11687-11688.	13.7	469
15	Selective Synthesis of Primary Amines Directly from Alcohols and Ammonia. Angewandte Chemie - International Edition, 2008, 47, 8661-8664.	13.8	468
16	Palladium-catalyzed coupling of tetraorganotin compounds with aryl and benzyl halides. Synthetic utility and mechanism. Journal of the American Chemical Society, 1979, 101, 4992-4998.	13.7	452
17	Consecutive Thermal H ₂ and Light-Induced O ₂ Evolution from Water Promoted by a Metal Complex. Science, 2009, 324, 74-77.	12.6	448
18	Direct Synthesis of Imines from Alcohols and Amines with Liberation of H₂. Angewandte Chemie - International Edition, 2010, 49, 1468-1471.	13.8	420

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19	Homogeneous Catalysis by Cobalt and Manganese Pincer Complexes. ACS Catalysis, 2018, 8, 11435-11469.	11.2	412
20	Manganese-Catalyzed Environmentally Benign Dehydrogenative Coupling of Alcohols and Amines to Form Aldimines and H₂: A Catalytic and Mechanistic Study. Journal of the American Chemical Society, 2016, 138, 4298-4301.	13.7	410
21	Direct Hydrogenation of Amides to Alcohols and Amines under Mild Conditions. Journal of the American Chemical Society, 2010, 132, 16756-16758.	13.7	394
22	Efficient Hydrogenation of Ketones Catalyzed by an Iron Pincer Complex. Angewandte Chemie - International Edition, 2011, 50, 2120-2124.	13.8	338
23	Rational design in homogeneous catalysis. Iridium(I)-catalyzed addition of aniline to norbornylene via nitrogen-hydrogen activation. Journal of the American Chemical Society, 1988, 110, 6738-6744.	13.7	324
24	Catalytic Activation of Carbon-Fluorine Bonds by a Soluble Transition Metal Complex. Science, 1994, 265, 359-361.	12.6	307
25	Catalytic transformation of alcohols to carboxylic acid salts and H2 using water as the oxygen atom source. Nature Chemistry, 2013, 5, 122-125.	13.6	293
26	Electron-Rich, Bulky Ruthenium PNP-Type Complexes. Acceptorless Catalytic Alcohol Dehydrogenation. Organometallics, 2004, 23, 4026-4033.	2.3	285
27	Discovery of Environmentally Benign Catalytic Reactions of Alcohols Catalyzed by Pyridine-Based Pincer Ru Complexes, Based on Metalâ€"Ligand Cooperation. Topics in Catalysis, 2010, 53, 915-923.	2.8	283
28	Activation of a carbonâ€"carbon bond in solution by transition-metal insertion. Nature, 1993, 364, 699-701.	27.8	282
29	Direct Synthesis of Pyrroles by Dehydrogenative Coupling of Î²â€Aminoalcohols with Secondary Alcohols Catalyzed by Ruthenium Pincer Complexes. Angewandte Chemie - International Edition, 2013, 52, 4012-4015.	13.8	268
30	Direct Conversion of Alcohols to Acetals and H₂ Catalyzed by an Acridine-Based Ruthenium Pincer Complex. Journal of the American Chemical Society, 2009, 131, 3146-3147.	13.7	260
31	Synthesis of Amides from Esters and Amines with Liberation of H₂ under Neutral Conditions. Journal of the American Chemical Society, 2011, 133, 1682-1685.	13.7	253
32	Selective Hydrogenation of Nitriles to Primary Amines Catalyzed by a Cobalt Pincer Complex. Journal of the American Chemical Society, 2015, 137, 8888-8891.	13.7	237
33	Ru-Catalyzed Oxidative Coupling of Arenes with Olefins Using O2. Journal of the American Chemical Society, 2001, 123, 337-338.	13.7	229
34	Homogeneous rhodium complex-catalyzed hydrogenolysis of C-F bonds.. Journal of the American Chemical Society, 1995, 117, 8674-8675.	13.7	224
35	Homogeneous Catalysis for Sustainable Energy: Hydrogen and Methanol Economies, Fuels from Biomass, and Related Topics. Chemical Reviews, 2022, 122, 385-441.	47.7	223
36	Metalâˆ'Ligand Cooperation in Câˆ'H and H2Activation by an Electron-Rich PNP Ir(I) System:Â Facile Ligand Dearomatizationâˆ'Aromatization as Key Steps. Journal of the American Chemical Society, 2006, 128, 15390-15391.	13.7	222

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37	Iron Pincer Complex Catalyzed, Environmentally Benign, Eâ€Selective Semiâ€Hydrogenation of Alkynes. Angewandte Chemie - International Edition, 2013, 52, 14131-14134.	13.8	215
38	Nâˆ’H Activation of Amines and Ammonia by Ru via Metalâˆ’Ligand Cooperation. Journal of the American Chemical Society, 2010, 132, 8542-8543.	13.7	214
39	Efficient Hydrogen Liberation from Formic Acid Catalyzed by a Wellâ€Defined Iron Pincer Complex under Mild Conditions. Chemistry - A European Journal, 2013, 19, 8068-8072.	3.3	208
40	Electron-Rich PNP- and PNN-Type Ruthenium(II) Hydrido Borohydride Pincer Complexes. Synthesis, Structure, and Catalytic Dehydrogenation of Alcohols and Hydrogenation of Esters. Organometallics, 2011, 30, 5716-5724.	2.3	206
41	Mechanism of aryl chloride oxidative addition to chelated palladium(0) complexes. Organometallics, 1993, 12, 1665-1673.	2.3	204
42	Manganeseâ€Catalyzed Hydrogenation of Esters to Alcohols. Chemistry - A European Journal, 2017, 23, 5934-5938.	3.3	192
43	Chelate-assisted, palladium-catalyzed efficient carbonylation of aryl chlorides. Journal of the American Chemical Society, 1989, 111, 8742-8744.	13.7	190
44	Evidence for a terminal Pt(iv)-oxo complex exhibiting diverse reactivity. Nature, 2008, 455, 1093-1096.	27.8	187
45	Metallâ€Ligandâ€Kooperation. Angewandte Chemie, 2015, 127, 12406-12445.	2.0	186
46	Mild, selective, general method of ketone synthesis from acid chlorides and organotin compounds catalyzed by palladium. Journal of Organic Chemistry, 1979, 44, 1613-1618.	3.2	181
47	Highly active PdII cyclometallated imine catalysts for the Heck reaction. Chemical Communications, 1999, , 357-358.	4.1	180
48	Iron Borohydride Pincer Complexes for the Efficient Hydrogenation of Ketones under Mild, Baseâ€Free Conditions: Synthesis and Mechanistic Insight. Chemistry - A European Journal, 2012, 18, 7196-7209.	3.3	180
49	Highly active PdII cyclometallated imine catalyst for the Suzuki reaction. Chemical Communications, 1999, , 1901-1902.	4.1	177
50	New CNN-Type Ruthenium Pincer NHC Complexes. Mild, Efficient Catalytic Hydrogenation of Esters. Organometallics, 2011, 30, 3826-3833.	2.3	177
51	Reusable Homogeneous Catalytic System for Hydrogen Production from Methanol and Water. ACS Catalysis, 2014, 4, 2649-2652.	11.2	176
52	Direct synthesis of pyridines and quinolines by coupling of Î³-amino-alcohols with secondary alcohols liberating H2 catalyzed by ruthenium pincer complexes. Chemical Communications, 2013, 49, 6632.	4.1	175
53	Unprecedented Ironâ€Catalyzed Ester Hydrogenation. Mild, Selective, and Efficient Hydrogenation of Trifluoroacetic Esters to Alcohols Catalyzed by an Iron Pincer Complex. Angewandte Chemie - International Edition, 2014, 53, 4685-4689.	13.8	175
54	Mechanism of reductive elimination. Reaction of alkylpalladium(II) complexes with tetraorganotin, organolithium, and Grignard reagents. Evidence for palladium(IV) intermediacy. Journal of the American Chemical Society, 1979, 101, 4981-4991.	13.7	174

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55	A Room Temperature Direct Metal Insertion into a Nonstrained Carbonâ^'Carbon Bond in Solution. Câ^'C vs Câ^'H Bond Activation. Journal of the American Chemical Society, 1996, 118, 12406-12415.	13.7	172
56	Unprecedented Catalytic Hydrogenation of Urea Derivatives to Amines and Methanol. Angewandte Chemie - International Edition, 2011, 50, 11702-11705.	13.8	172
57	Manganeseâ€Catalyzed Nâ€Formylation of Amines by Methanol Liberating H₂: A Catalytic and Mechanistic Study. Angewandte Chemie - International Edition, 2017, 56, 4229-4233.	13.8	170
58	Alkylâ^' and Arylâ^'Oxygen Bond Activation in Solution by Rhodium(I), Palladium(II), and Nickel(II). Transition-Metal-Based Selectivity. Journal of the American Chemical Society, 1998, 120, 6531-6541.	13.7	169
59	Nitrogen-hydrogen activation. 1. Oxidative addition of ammonia to iridium(I). Isolation, structural characterization and reactivity of amidoiridium hydrides. Inorganic Chemistry, 1987, 26, 971-973.	4.0	166
60	Cobaltâ€Catalyzed Hydrogenation of Esters to Alcohols: Unexpected Reactivity Trend Indicates Ester Enolate Intermediacy. Angewandte Chemie - International Edition, 2015, 54, 12357-12360.	13.8	166
61	Formation of Î·2 Câ^'H Agostic Rhodium Arene Complexes and Their Relevance to Electrophilic Bond Activation. Journal of the American Chemical Society, 1998, 120, 12539-12544.	13.7	164
62	Aspects of intermediacy of carbalkoxymetal complexes in carbon monoxide reactions. Accounts of Chemical Research, 1988, 21, 428-434.	15.6	163
63	Direct Synthesis of Benzimidazoles by Dehydrogenative Coupling of Aromatic Diamines and Alcohols Catalyzed by Cobalt. ACS Catalysis, 2017, 7, 7456-7460.	11.2	162
64	Electron-rich, bulky PNN-type ruthenium complexes: synthesis, characterization and catalysis of alcohol dehydrogenation. Dalton Transactions, 2007, , 107-113.	3.3	161
65	Manganese-Catalyzed Î±-Alkylation of Ketones, Esters, and Amides Using Alcohols. ACS Catalysis, 2018, 8, 10300-10305.	11.2	161
66	Direct Synthesis of Pyrroles by Dehydrogenative Coupling of Diols and Amines Catalyzed by Cobalt Pincer Complexes. Angewandte Chemie - International Edition, 2016, 55, 14373-14377.	13.8	158
67	Transition-metal-catalyzed carbon-carbon bond formation via carbon-hydrogen activation. Intermolecular hydroacylation: the addition of aldehydes to alkenes. Organometallics, 1988, 7, 1451-1453.	2.3	157
68	Combining Low-Pressure CO₂ Capture and Hydrogenation To Form Methanol. ACS Catalysis, 2015, 5, 2416-2422.	11.2	152
69	Manganese Catalyzed Î±-Olefination of Nitriles by Primary Alcohols. Journal of the American Chemical Society, 2017, 139, 11710-11713.	13.7	147
70	Manganese Catalyzed Hydrogenation of Organic Carbonates to Methanol and Alcohols. Angewandte Chemie - International Edition, 2018, 57, 12076-12080.	13.8	144
71	Palladium-catalyzed vinylation of aryl chlorides. Chelate effect in catalysis. Organometallics, 1992, 11, 1995-1996.	2.3	143
72	Advances in Metal Chemistry of Quinonoid Compounds:Â New Types of Interactions between Metals and Aromatics. Accounts of Chemical Research, 2001, 34, 798-807.	15.6	143

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73	Direct Synthesis of Amides by Dehydrogenative Coupling of Amines with either Alcohols or Esters: Manganese Pincer Complex as Catalyst. Angewandte Chemie - International Edition, 2017, 56, 14992-14996.	13.8	141
74	Gd³⁺ Complexes as Potential Spin Labels for High Field Pulsed EPR Distance Measurements. Journal of the American Chemical Society, 2007, 129, 14138-14139.	13.7	138
75	Synthesis of Peptides and Pyrazines from Î²â€Amino Alcohols through Extrusion of H₂ Catalyzed by Ruthenium Pincer Complexes: Ligandâ€Controlled Selectivity. Angewandte Chemie - International Edition, 2011, 50, 12240-12244.	13.8	138
76	Selective N-Formylation of Amines with H₂ and CO₂ Catalyzed by Cobalt Pincer Complexes. ACS Catalysis, 2017, 7, 2500-2504.	11.2	137
77	Synthesis of Cyclic Imides by Acceptorless Dehydrogenative Coupling of Diols and Amines Catalyzed by a Manganese Pincer Complex. Journal of the American Chemical Society, 2017, 139, 11722-11725.	13.7	135
78	Template Catalysis by Metalâ€"Ligand Cooperation. Câ€"C Bond Formation via Conjugate Addition of Non-activated Nitriles under Mild, Base-free Conditions Catalyzed by a Manganese Pincer Complex. Journal of the American Chemical Society, 2016, 138, 6985-6997.	13.7	134
79	Reactions of Electron-Rich Arylpalladium Complexes with Olefins. Origin of the Chelate Effect in Vinylation Catalysis. Organometallics, 1994, 13, 3465-3479.	2.3	132
80	Aldehyde Binding through Reversible Câ€"C Coupling with the Pincer Ligand upon Alcohol Dehydrogenation by a PNPâ€"Ruthenium Catalyst. Journal of the American Chemical Society, 2012, 134, 10325-10328.	13.7	132
81	Formation, structures, and reactivity of cis-hydroxy-, cis-methoxy-, and cis-mercaptoiridium hydrides. Oxidative addition of water to Ir(I). Journal of the American Chemical Society, 1986, 108, 6387-6389.	13.7	131
82	Complexation of N2, H2, CO2, and Ethylene to a T-Shaped Rhodium(I) Core. Organometallics, 1996, 15, 1839-1844.	2.3	129
83	H/D Exchange at Aromatic and Heteroaromatic Hydrocarbons Using D2O as the Deuterium Source and Ruthenium Dihydrogen Complexes as the Catalyst. Angewandte Chemie - International Edition, 2007, 46, 2269-2272.	13.8	129
84	â€œLong-Rangeâ€•Metalâˆ'Ligand Cooperation in H₂ Activation and Ammonia-Promoted Hydride Transfer with a Rutheniumâˆ'Acridine Pincer Complex. Journal of the American Chemical Society, 2010, 132, 14763-14765.	13.7	129
85	Highly Efficient Process for Production of Biofuel from Ethanol Catalyzed by Ruthenium Pincer Complexes. Journal of the American Chemical Society, 2016, 138, 9077-9080.	13.7	128
86	A PCN Ligand System. Exclusive Câˆ'C Activation with Rhodium(I) and Câˆ'H Activation with Platinum(II). Organometallics, 1997, 16, 3981-3986.	2.3	127
87	A New Mode of Activation of CO₂ by Metalâ€"Ligand Cooperation with Reversible Cï£¿C and Mï£¿O Bond Formation at Ambient Temperature. Chemistry - A European Journal, 2012, 18, 9194-9197.	3.3	125
88	Synthesis of Pyrazines and Quinoxalines via Acceptorless Dehydrogenative Coupling Routes Catalyzed by Manganese Pincer Complexes. ACS Catalysis, 2018, 8, 7734-7741.	11.2	124
89	Oxidant-Free Conversion of Cyclic Amines to Lactams and H₂ Using Water As the Oxygen Atom Source. Journal of the American Chemical Society, 2014, 136, 2998-3001.	13.7	122
90	Mechanism of a Directly Observed .beta.-Hydride Elimination Process of Iridium Alkoxo Complexes. Journal of the American Chemical Society, 1995, 117, 4582-4594.	13.7	121

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91	Synthesis, Structure, and Reactivity of New Rhodium and Iridium Complexes, Bearing a Highly Electron-Donating PNP System. Iridium-Mediated Vinylic Câˆ’H Bond Activation. Organometallics, 2002, 21, 812-818.	2.3	120
92	Reversible CO₂ binding triggered by metalâ€“ligand cooperation in a rhenium(<scp>i</scp>) PNP pincer-type complex and the reaction with dihydrogen. Chemical Science, 2014, 5, 2043-2051.	7.4	120
93	Transfer of methylene groups promoted by metal complexation. Nature, 1994, 370, 42-44.	27.8	119
94	Synthesis and Reactivity of Iron Complexes with a New Pyrazine-Based Pincer Ligand, and Application in Catalytic Low-Pressure Hydrogenation of Carbon Dioxide. Inorganic Chemistry, 2015, 54, 4526-4538.	4.0	119
95	Impact of Molecular Order in Langmuir-Blodgett Films on Catalysis. Science, 1997, 278, 2100-2102.	12.6	118
96	Comparison of Steric and Electronic Requirements for Câˆ’C and Câˆ’H Bond Activation. Chelating vs Nonchelating Case. Journal of the American Chemical Society, 2001, 123, 9064-9077.	13.7	118
97	Efficient hydrogenation of biomass-derived cyclic di-esters to 1,2-diols. Chemical Communications, 2012, 48, 1111-1113.	4.1	118
98	Concept of the H(Î´+)â‹¯H(Î´â€“) interaction. A low-temperature neutron diffraction study of cis-[IrH(OH)(PMe3)4]PF6. Journal of the Chemical Society Dalton Transactions, 1990, , 1429-1432.	1.1	117
99	Bond Activation by Metal-Ligand Cooperation: Design of â€œGreenâ€•Catalytic Reactions Based on Aromatization-Dearomatization of Pincer Complexes. Topics in Organometallic Chemistry, 2011, , 55-84.	0.7	117
100	Catalytic coupling of nitriles with amines to selectively form imines under mild hydrogen pressure. Chemical Communications, 2012, 48, 11853.	4.1	115
101	A novel liquid organic hydrogen carrier system based on catalytic peptide formation and hydrogenation. Nature Communications, 2015, 6, 6859.	12.8	115
102	System with Potential Dual Modes of Metalâ€“Ligand Cooperation: Highly Catalytically Active Pyridineâ€Based PNNHâ€“Ru Pincer Complexes. Chemistry - A European Journal, 2014, 20, 15727-15731.	3.3	114
103	The cis-alkyl and cis-acylrhodium and iridium hydrides. Model intermediates in homogeneous catalysis. Accounts of Chemical Research, 1984, 17, 221-226.	15.6	113
104	Selective hydrogenation of nitriles to primary amines catalyzed by a novel iron complex. Chemical Communications, 2016, 52, 1812-1815.	4.1	113
105	Unexpected Isomerization of acis- into atrans-Dihydride Complex. A Neutral Late Transition Metal Complex as a Hydride Donor. Organometallics, 1997, 16, 3786-3793.	2.3	112
106	Metallacarbenes from Diazoalkanes:Â An Experimental and Computational Study of the Reaction Mechanism. Journal of the American Chemical Society, 2003, 125, 6532-6546.	13.7	112
107	Selective Ortho Câˆ’H Activation of Haloarenes by an Ir(I) System. Journal of the American Chemical Society, 2003, 125, 4714-4715.	13.7	111
108	Aromatic vs Aliphatic Câˆ’H Bond Activation by Rhodium(I) as a Function of Agostic Interactions:Â Catalytic H/D Exchange between Olefins and Methanol or Water. Journal of the American Chemical Society, 2003, 125, 11041-11050.	13.7	111

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109	Pincer â€œHemilabileâ€•Effect. PCN Platinum(II) Complexes with Different Amine â€œArm Lengthâ€• Organometallics, 2005, 24, 1082-1090.	2.3	111
110	Metalâ€“ligand cooperation in the trans addition of dihydrogen to a pincer Ir(i) complex: a DFT study. Dalton Transactions, 2009, , 9433.	3.3	111
111	Directly Observed Oxidative Addition of a Strong Carbon-Carbon Bond to a Soluble Metal Complex. Journal of the American Chemical Society, 1995, 117, 9774-9775.	13.7	110
112	Activation of Nitriles by Metal Ligand Cooperation. Reversible Formation of Ketimido- and Enamido-Rhenium PNP Pincer Complexes and Relevance to Catalytic Design. Journal of the American Chemical Society, 2013, 135, 17004-17018.	13.7	110
113	Ruthenium Pincerâ€Catalyzed Crossâ€Dehydrogenative Coupling of Primary Alcohols with Secondary Alcohols under Neutral Conditions. Advanced Synthesis and Catalysis, 2012, 354, 2403-2406.	4.3	109
114	Transition-metal-catalyzed cyclization of alkynoic acids to alkylidene lactones. Journal of the American Chemical Society, 1987, 109, 6385-6388.	13.7	106
115	Nâ€Substituted Hydrazones by Manganeseâ€Catalyzed Coupling of Alcohols with Hydrazine: Borrowing Hydrogen and Acceptorless Dehydrogenation in One System. Angewandte Chemie - International Edition, 2018, 57, 2179-2182.	13.8	104
116	Ethylene glycol as an efficient and reversible liquid-organic hydrogen carrier. Nature Catalysis, 2019, 2, 415-422.	34.4	102
117	Silanol-Based Pincer Pt(II) Complexes: Synthesis, Structure, and Unusual Reactivity. Inorganic Chemistry, 2008, 47, 7177-7189.	4.0	101
118	Hydrogenative Depolymerization of Nylons. Journal of the American Chemical Society, 2020, 142, 14267-14275.	13.7	101
119	orthoCâˆ'H Activation of Haloarenes and Anisole by an Electron-Rich Iridium(I) Complex:Â Mechanism and Origin of Regio- andÂChemoselectivity. AnÂExperimental andÂTheoreticalÂStudy. Organometallics, 2006, 25, 3190-3210.	2.3	100
120	Highly Selective, Efficient Deoxygenative Hydrogenation of Amides Catalyzed by a Manganese Pincer Complex via Metalâ€“Ligand Cooperation. ACS Catalysis, 2018, 8, 8014-8019.	11.2	100
121	Unprecedented iron-catalyzed selective hydrogenation of activated amides to amines and alcohols. Chemical Communications, 2016, 52, 5285-5288.	4.1	99
122	Metalâ€“ligand cooperation by aromatizationâ€“dearomatization as a tool in single bond activation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140189.	3.4	98
123	Zâ€Selective (Crossâ€)Dimerization of Terminal Alkynes Catalyzed by an Iron Complex. Angewandte Chemie - International Edition, 2016, 55, 6942-6945.	13.8	98
124	Synthesis and Reactivity of an Iridium(I) Acetonyl PNP Complex. Experimental and Computational Study of Metalâˆ'Ligand Cooperation in Hâˆ'H and Câˆ'H Bond Activation via Reversible Ligand Dearomatization. Organometallics, 2010, 29, 3817-3827.	2.3	97
125	Catalytic selective cleavage of a strong Câ€“C single bond by rhodium in solution. Chemical Communications, 1998, , 687-688.	4.1	96
126	Rechargeable Hydrogen Storage System Based on the Dehydrogenative Coupling of Ethylenediamine with Ethanol. Angewandte Chemie - International Edition, 2016, 55, 1061-1064.	13.8	94

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127	A New General Method for the Preparation of Metal Carbene Complexes. Journal of the American Chemical Society, 2001, 123, 5372-5373.	13.7	92
128	Manganese Catalyzed Hydrogenation of Carbamates and Urea Derivatives. Journal of the American Chemical Society, 2019, 141, 12962-12966.	13.7	92
129	Highly efficient additive-free dehydrogenation of neat formic acid. Nature Catalysis, 2021, 4, 193-201.	34.4	92
130	Direct Observation of Reductive Elimination of Methyl Iodide from a Rhodium(III) Pincer Complex:Â The Importance of Sterics. Journal of the American Chemical Society, 2006, 128, 12434-12435.	13.7	91
131	Chelate effect on the structure and reactivity of electron-rich palladium complexes and its relevance to catalysis. Organometallics, 1993, 12, 1655-1664.	2.3	90
132	Reductive Cleavage of CO₂ by Metalâ€"Ligand-Cooperation Mediated by an Iridium Pincer Complex. Journal of the American Chemical Society, 2016, 138, 6445-6454.	13.7	88
133	Câ€"F bond activation by iridium(I). A unique process involving Pâ€"C bond cleavage, Pâ€"F bond formation and net retention of oxidation state. Journal of the Chemical Society Chemical Communications, 1991, .	2.0	86
134	Clarification of a remarkable chelate effect leads to palladium-catalyzed base-free olefin arylation. Organometallics, 1993, 12, 4734-4735.	2.3	85
135	Selective Câˆ'C vs Câˆ'H Bond Activation by Rhodium(I) PCP Pincer Complexes. A Computational Study. Journal of the American Chemical Society, 2000, 122, 7095-7104.	13.7	85
136	Formylation of aryl chlorides catalysed by a palladium complex. Journal of the Chemical Society Chemical Communications, 1989, , 1816.	2.0	84
137	Metal-Stabilized Methylene Arenium and Ïƒ-Arenium Compounds:â€‰ Synthesis, Structure, Reactivity, Charge Distribution, and Interconversion. Organometallics, 1999, 18, 895-905.	2.3	84
138	Formation of Stabletrans-Dihydride Ruthenium(II) and 16-Electron Ruthenium(0) Complexes Based on Phosphinite PONOP Pincer Ligands. Reactivity toward Water and Electrophiles. Organometallics, 2009, 28, 4791-4806.	2.3	84
139	Manganese-Catalyzed Direct Deoxygenation of Primary Alcohols. ACS Catalysis, 2017, 7, 4462-4466.	11.2	84
140	Nâ€"H Activation by Rh(I) via Metalâ€"Ligand Cooperation. Organometallics, 2012, 31, 4083-4101.	2.3	83
141	Highly efficient, general hydrogenation of aldehydes catalyzed by PNP iron pincer complexes. Catalysis Science and Technology, 2015, 5, 822-826.	4.1	83
142	Exclusive Câˆ'C Activation and an Apparent Î±-H Elimination with a Rhodium Phosphinite Pincer Complex. Organometallics, 2006, 25, 2292-2300.	2.3	82
143	Carbonâˆ'Carbon vs Carbonâˆ'Hydrogen Bond Activation by Ruthenium(II) and Platinum(II) in Solution. Organometallics, 1999, 18, 3873-3884.	2.3	81
144	Formation of Tertiary Amides and Dihydrogen by Dehydrogenative Coupling of Primary Alcohols with Secondary Amines Catalyzed by Ruthenium Bipyridineâ€Based Pincer Complexes. Advanced Synthesis and Catalysis, 2013, 355, 2525-2530.	4.3	81

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145	Selective Hydrogenation of Nitriles to Secondary Imines Catalyzed by an Iron Pincer Complex. ACS Catalysis, 2017, 7, 3968-3972.	11.2	80
146	Iron(II) complexes based on electron-rich, bulky PNN- and PNP-type ligands. Inorganica Chimica Acta, 2006, 359, 1955-1960.	2.4	79
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