

David Milstein

List of Publications by Year in descending order

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1531

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times ranked

16536
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#	ARTICLE	IF	CITATIONS
1	Cyclometalated Phosphine-Based Pincer Complexes: Mechanistic Insight in Catalysis, Coordination, and Bond Activation. <i>Chemical Reviews</i> , 2003, 103, 1759-1792.	23.0	1,553
2	Applications of Acceptorless Dehydrogenation and Related Transformations in Chemical Synthesis. <i>Science</i> , 2013, 341, 1229712.	6.0	1,219
3	Direct Synthesis of Amides from Alcohols and Amines with Liberation of H ₂ . <i>Science</i> , 2007, 317, 790-792.	6.0	1,168
4	Metal-Ligand Cooperation by Aromatization/Deaomatization: A New Paradigm in Bond Activation and Green Catalysis. <i>Accounts of Chemical Research</i> , 2011, 44, 588-602.	7.6	947
5	Metal-Ligand Cooperation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12236-12273.	7.2	947
6	Bond Activation and Catalysis by Ruthenium Pincer Complexes. <i>Chemical Reviews</i> , 2014, 114, 12024-12087.	23.0	811
7	A general, selective, and facile method for ketone synthesis from acid chlorides and organotin compounds catalyzed by palladium. <i>Journal of the American Chemical Society</i> , 1978, 100, 3636-3638.	6.6	776
8	Metal Insertion into C-C Bonds in Solution. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 870-883.	7.2	751
9	Facile Conversion of Alcohols into Esters and Dihydrogen Catalyzed by New Ruthenium Complexes. <i>Journal of the American Chemical Society</i> , 2005, 127, 10840-10841.	6.6	724
10	Efficient hydrogenation of organic carbonates, carbamates and formates indicates alternative routes to methanol based on CO ₂ and CO. <i>Nature Chemistry</i> , 2011, 3, 609-614.	6.6	563
11	Hydrogenation and Dehydrogenation Iron Pincer Catalysts Capable of Metal-Ligand Cooperation by Aromatization/Deaomatization. <i>Accounts of Chemical Research</i> , 2015, 48, 1979-1994.	7.6	521
12	Efficient Homogeneous Catalytic Hydrogenation of Esters to Alcohols. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1113-1115.	7.2	502
13	Low-Pressure Hydrogenation of Carbon Dioxide Catalyzed by an Iron Pincer Complex Exhibiting Noble Metal Activity. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9948-9952.	7.2	479
14	Highly Active Pd(II) PCP-Type Catalysts for the Heck Reaction. <i>Journal of the American Chemical Society</i> , 1997, 119, 11687-11688.	6.6	469
15	Selective Synthesis of Primary Amines Directly from Alcohols and Ammonia. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8661-8664.	7.2	468
16	Palladium-catalyzed coupling of tetraorganotin compounds with aryl and benzyl halides. Synthetic utility and mechanism. <i>Journal of the American Chemical Society</i> , 1979, 101, 4992-4998.	6.6	452
17	Consecutive Thermal H ₂ and Light-Induced O ₂ Evolution from Water Promoted by a Metal Complex. <i>Science</i> , 2009, 324, 74-77.	6.0	448
18	Direct Synthesis of Imines from Alcohols and Amines with Liberation of H ₂ . <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1468-1471.	7.2	420

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19	Homogeneous Catalysis by Cobalt and Manganese Pincer Complexes. <i>ACS Catalysis</i> , 2018, 8, 11435-11469.	5.5	412
20	Manganese-Catalyzed Environmentally Benign Dehydrogenative Coupling of Alcohols and Amines to Form Aldimines and H ₂ : A Catalytic and Mechanistic Study. <i>Journal of the American Chemical Society</i> , 2016, 138, 4298-4301.	6.6	410
21	Direct Hydrogenation of Amides to Alcohols and Amines under Mild Conditions. <i>Journal of the American Chemical Society</i> , 2010, 132, 16756-16758.	6.6	394
22	Efficient Hydrogenation of Ketones Catalyzed by an Iron Pincer Complex. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2120-2124.	7.2	338
23	Rational design in homogeneous catalysis. Iridium(I)-catalyzed addition of aniline to norbornylene via nitrogen-hydrogen activation. <i>Journal of the American Chemical Society</i> , 1988, 110, 6738-6744.	6.6	324
24	Catalytic Activation of Carbon-Fluorine Bonds by a Soluble Transition Metal Complex. <i>Science</i> , 1994, 265, 359-361.	6.0	307
25	Catalytic transformation of alcohols to carboxylic acid salts and H ₂ using water as the oxygen atom source. <i>Nature Chemistry</i> , 2013, 5, 122-125.	6.6	293
26	Electron-Rich, Bulky Ruthenium PNP-Type Complexes. Acceptorless Catalytic Alcohol Dehydrogenation. <i>Organometallics</i> , 2004, 23, 4026-4033.	1.1	285
27	Discovery of Environmentally Benign Catalytic Reactions of Alcohols Catalyzed by Pyridine-Based Pincer Ru Complexes, Based on Metal-Ligand Cooperation. <i>Topics in Catalysis</i> , 2010, 53, 915-923.	1.3	283
28	Activation of a carbon-carbon bond in solution by transition-metal insertion. <i>Nature</i> , 1993, 364, 699-701.	13.7	282
29	Direct Synthesis of Pyrroles by Dehydrogenative Coupling of α -Aminoalcohols with Secondary Alcohols Catalyzed by Ruthenium Pincer Complexes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4012-4015.	7.2	268
30	Direct Conversion of Alcohols to Acetals and H ₂ Catalyzed by an Acridine-Based Ruthenium Pincer Complex. <i>Journal of the American Chemical Society</i> , 2009, 131, 3146-3147.	6.6	260
31	Synthesis of Amides from Esters and Amines with Liberation of H ₂ under Neutral Conditions. <i>Journal of the American Chemical Society</i> , 2011, 133, 1682-1685.	6.6	253
32	Selective Hydrogenation of Nitriles to Primary Amines Catalyzed by a Cobalt Pincer Complex. <i>Journal of the American Chemical Society</i> , 2015, 137, 8888-8891.	6.6	237
33	Ru-Catalyzed Oxidative Coupling of Arenes with Olefins Using O ₂ . <i>Journal of the American Chemical Society</i> , 2001, 123, 337-338.	6.6	229
34	Homogeneous rhodium complex-catalyzed hydrogenolysis of C-F bonds. <i>Journal of the American Chemical Society</i> , 1995, 117, 8674-8675.	6.6	224
35	Homogeneous Catalysis for Sustainable Energy: Hydrogen and Methanol Economies, Fuels from Biomass, and Related Topics. <i>Chemical Reviews</i> , 2022, 122, 385-441.	23.0	223
36	Metal-Ligand Cooperation in C-H and H ₂ Activation by an Electron-Rich PNP Ir(I) System: A Facile Ligand Dearomatization-Aromatization as Key Steps. <i>Journal of the American Chemical Society</i> , 2006, 128, 15390-15391.	6.6	222

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37	Iron Pincer Complex Catalyzed, Environmentally Benign, <i>selective Semi-Hydrogenation of Alkynes</i> . <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14131-14134.	7.2	215
38	N ³ H Activation of Amines and Ammonia by Ru via Metal-Ligand Cooperation. <i>Journal of the American Chemical Society</i> , 2010, 132, 8542-8543.	6.6	214
39	Efficient Hydrogen Liberation from Formic Acid Catalyzed by a Well-Defined Iron Pincer Complex under Mild Conditions. <i>Chemistry - A European Journal</i> , 2013, 19, 8068-8072.	1.7	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. <i>Organometallics</i> , 2011, 30, 5716-5724.	1.1	206
41	Mechanism of aryl chloride oxidative addition to chelated palladium(0) complexes. <i>Organometallics</i> , 1993, 12, 1665-1673.	1.1	204
42	Manganese-Catalyzed Hydrogenation of Esters to Alcohols. <i>Chemistry - A European Journal</i> , 2017, 23, 5934-5938.	1.7	192
43	Chelate-assisted, palladium-catalyzed efficient carbonylation of aryl chlorides. <i>Journal of the American Chemical Society</i> , 1989, 111, 8742-8744.	6.6	190
44	Evidence for a terminal Pt(IV)-oxo complex exhibiting diverse reactivity. <i>Nature</i> , 2008, 455, 1093-1096.	13.7	187
45	Metal-Ligand Cooperation. <i>Angewandte Chemie</i> , 2015, 127, 12406-12445.	1.6	186
46	Mild, selective, general method of ketone synthesis from acid chlorides and organotin compounds catalyzed by palladium. <i>Journal of Organic Chemistry</i> , 1979, 44, 1613-1618.	1.7	181
47	Highly active PdII cyclometallated imine catalysts for the Heck reaction. <i>Chemical Communications</i> , 1999, , 357-358.	2.2	180
48	Iron Borohydride Pincer Complexes for the Efficient Hydrogenation of Ketones under Mild, Base-Free Conditions: Synthesis and Mechanistic Insight. <i>Chemistry - A European Journal</i> , 2012, 18, 7196-7209.	1.7	180
49	Highly active PdII cyclometallated imine catalyst for the Suzuki reaction. <i>Chemical Communications</i> , 1999, , 1901-1902.	2.2	177
50	New CNN-Type Ruthenium Pincer NHC Complexes. Mild, Efficient Catalytic Hydrogenation of Esters. <i>Organometallics</i> , 2011, 30, 3826-3833.	1.1	177
51	Reusable Homogeneous Catalytic System for Hydrogen Production from Methanol and Water. <i>ACS Catalysis</i> , 2014, 4, 2649-2652.	5.5	176
52	Direct synthesis of pyridines and quinolines by coupling of β -amino-alcohols with secondary alcohols liberating H ₂ catalyzed by ruthenium pincer complexes. <i>Chemical Communications</i> , 2013, 49, 6632.	2.2	175
53	Unprecedented Iron-Catalyzed Ester Hydrogenation. Mild, Selective, and Efficient Hydrogenation of Trifluoroacetic Esters to Alcohols Catalyzed by an Iron Pincer Complex. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4685-4689.	7.2	175
54	Mechanism of reductive elimination. Reaction of alkylpalladium(II) complexes with tetraorganotin, organolithium, and Grignard reagents. Evidence for palladium(IV) intermediacy. <i>Journal of the American Chemical Society</i> , 1979, 101, 4981-4991.	6.6	174

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55	A Room Temperature Direct Metal Insertion into a Nonstrained Carbon-Carbon Bond in Solution. C-H vs C-H Bond Activation. <i>Journal of the American Chemical Society</i> , 1996, 118, 12406-12415.	6.6	172
56	Unprecedented Catalytic Hydrogenation of Urea Derivatives to Amines and Methanol. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11702-11705.	7.2	172
57	Manganese-Catalyzed N-Formylation of Amines by Methanol Liberating H ₂ : A Catalytic and Mechanistic Study. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4229-4233.	7.2	170
58	Alkyl and Aryl Oxygen Bond Activation in Solution by Rhodium(I), Palladium(II), and Nickel(II). Transition-Metal-Based Selectivity. <i>Journal of the American Chemical Society</i> , 1998, 120, 6531-6541.	6.6	169
59	Nitrogen-hydrogen activation. 1. Oxidative addition of ammonia to iridium(I). Isolation, structural characterization and reactivity of amidoiridium hydrides. <i>Inorganic Chemistry</i> , 1987, 26, 971-973.	1.9	166
60	Cobalt-Catalyzed Hydrogenation of Esters to Alcohols: Unexpected Reactivity Trend Indicates Ester Enolate Intermediacy. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12357-12360.	7.2	166
61	Formation of η^2 C-H Agostic Rhodium Arene Complexes and Their Relevance to Electrophilic Bond Activation. <i>Journal of the American Chemical Society</i> , 1998, 120, 12539-12544.	6.6	164
62	Aspects of intermediacy of carbalkoxymetal complexes in carbon monoxide reactions. <i>Accounts of Chemical Research</i> , 1988, 21, 428-434.	7.6	163
63	Direct Synthesis of Benzimidazoles by Dehydrogenative Coupling of Aromatic Diamines and Alcohols Catalyzed by Cobalt. <i>ACS Catalysis</i> , 2017, 7, 7456-7460.	5.5	162
64	Electron-rich, bulky PNN-type ruthenium complexes: synthesis, characterization and catalysis of alcohol dehydrogenation. <i>Dalton Transactions</i> , 2007, , 107-113.	1.6	161
65	Manganese-Catalyzed α -Alkylation of Ketones, Esters, and Amides Using Alcohols. <i>ACS Catalysis</i> , 2018, 8, 10300-10305.	5.5	161
66	Direct Synthesis of Pyrroles by Dehydrogenative Coupling of Diols and Amines Catalyzed by Cobalt Pincer Complexes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14373-14377.	7.2	158
67	Transition-metal-catalyzed carbon-carbon bond formation via carbon-hydrogen activation. Intermolecular hydroacylation: the addition of aldehydes to alkenes. <i>Organometallics</i> , 1988, 7, 1451-1453.	1.1	157
68	Combining Low-Pressure CO ₂ Capture and Hydrogenation To Form Methanol. <i>ACS Catalysis</i> , 2015, 5, 2416-2422.	5.5	152
69	Manganese Catalyzed α -Olefination of Nitriles by Primary Alcohols. <i>Journal of the American Chemical Society</i> , 2017, 139, 11710-11713.	6.6	147
70	Manganese Catalyzed Hydrogenation of Organic Carbonates to Methanol and Alcohols. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12076-12080.	7.2	144
71	Palladium-catalyzed vinylation of aryl chlorides. Chelate effect in catalysis. <i>Organometallics</i> , 1992, 11, 1995-1996.	1.1	143
72	Advances in Metal Chemistry of Quinonoid Compounds: New Types of Interactions between Metals and Aromatics. <i>Accounts of Chemical Research</i> , 2001, 34, 798-807.	7.6	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. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14992-14996.	7.2	141
74	Gd ³⁺ Complexes as Potential Spin Labels for High Field Pulsed EPR Distance Measurements. <i>Journal of the American Chemical Society</i> , 2007, 129, 14138-14139.	6.6	138
75	Synthesis of Peptides and Pyrazines from α -Amino Alcohols through Extrusion of H ₂ Catalyzed by Ruthenium Pincer Complexes: Ligand-Controlled Selectivity. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12240-12244.	7.2	138
76	Selective <i>N</i> -Formylation of Amines with H ₂ and CO ₂ Catalyzed by Cobalt Pincer Complexes. <i>ACS Catalysis</i> , 2017, 7, 2500-2504.	5.5	137
77	Synthesis of Cyclic Imides by Acceptorless Dehydrogenative Coupling of Diols and Amines Catalyzed by a Manganese Pincer Complex. <i>Journal of the American Chemical Society</i> , 2017, 139, 11722-11725.	6.6	135
78	Template Catalysis by Metal-Ligand Cooperation. C-C Bond Formation via Conjugate Addition of Non-activated Nitriles under Mild, Base-free Conditions Catalyzed by a Manganese Pincer Complex. <i>Journal of the American Chemical Society</i> , 2016, 138, 6985-6997.	6.6	134
79	Reactions of Electron-Rich Arylpalladium Complexes with Olefins. Origin of the Chelate Effect in Vinylation Catalysis. <i>Organometallics</i> , 1994, 13, 3465-3479.	1.1	132
80	Aldehyde Binding through Reversible C-C Coupling with the Pincer Ligand upon Alcohol Dehydrogenation by a PNP Ruthenium Catalyst. <i>Journal of the American Chemical Society</i> , 2012, 134, 10325-10328.	6.6	132
81	Formation, structures, and reactivity of cis-hydroxy-, cis-methoxy-, and cis-mercaptoiridium hydrides. Oxidative addition of water to Ir(I). <i>Journal of the American Chemical Society</i> , 1986, 108, 6387-6389.	6.6	131
82	Complexation of N ₂ , H ₂ , CO ₂ , and Ethylene to a T-Shaped Rhodium(I) Core. <i>Organometallics</i> , 1996, 15, 1839-1844.	1.1	129
83	H/D Exchange at Aromatic and Heteroaromatic Hydrocarbons Using D ₂ O as the Deuterium Source and Ruthenium Dihydrogen Complexes as the Catalyst. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2269-2272.	7.2	129
84	Long-Range Metal-Ligand Cooperation in H ₂ Activation and Ammonia-Promoted Hydride Transfer with a Ruthenium-Acridine Pincer Complex. <i>Journal of the American Chemical Society</i> , 2010, 132, 14763-14765.	6.6	129
85	Highly Efficient Process for Production of Biofuel from Ethanol Catalyzed by Ruthenium Pincer Complexes. <i>Journal of the American Chemical Society</i> , 2016, 138, 9077-9080.	6.6	128
86	A PCN Ligand System. Exclusive C-C Activation with Rhodium(I) and C-H Activation with Platinum(II). <i>Organometallics</i> , 1997, 16, 3981-3986.	1.1	127
87	A New Mode of Activation of CO ₂ by Metal-Ligand Cooperation with Reversible C-C and M-O Bond Formation at Ambient Temperature. <i>Chemistry - A European Journal</i> , 2012, 18, 9194-9197.	1.7	125
88	Synthesis of Pyrazines and Quinoxalines via Acceptorless Dehydrogenative Coupling Routes Catalyzed by Manganese Pincer Complexes. <i>ACS Catalysis</i> , 2018, 8, 7734-7741.	5.5	124
89	Oxidant-Free Conversion of Cyclic Amines to Lactams and H ₂ Using Water As the Oxygen Atom Source. <i>Journal of the American Chemical Society</i> , 2014, 136, 2998-3001.	6.6	122
90	Mechanism of a Directly Observed β -Hydride Elimination Process of Iridium Alkoxo Complexes. <i>Journal of the American Chemical Society</i> , 1995, 117, 4582-4594.	6.6	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 Vinyllic C-H Bond Activation. <i>Organometallics</i> , 2002, 21, 812-818.	1.1	120
92	Reversible CO ₂ binding triggered by metal-ligand cooperation in a rhenium(<i>η</i> -PNP pincer-type complex and the reaction with dihydrogen. <i>Chemical Science</i> , 2014, 5, 2043-2051.	3.7	120
93	Transfer of methylene groups promoted by metal complexation. <i>Nature</i> , 1994, 370, 42-44.	13.7	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. <i>Inorganic Chemistry</i> , 2015, 54, 4526-4538.	1.9	119
95	Impact of Molecular Order in Langmuir-Blodgett Films on Catalysis. <i>Science</i> , 1997, 278, 2100-2102.	6.0	118
96	Comparison of Steric and Electronic Requirements for C-C and C-H Bond Activation. Chelating vs Nonchelating Case. <i>Journal of the American Chemical Society</i> , 2001, 123, 9064-9077.	6.6	118
97	Efficient hydrogenation of biomass-derived cyclic di-esters to 1,2-diols. <i>Chemical Communications</i> , 2012, 48, 1111-1113.	2.2	118
98	Concept of the H(δ ⁺)...H(δ ⁻) interaction. A low-temperature neutron diffraction study of cis-[IrH(OH)(PMe ₃) ₄]PF ₆ . <i>Journal of the Chemical Society Dalton Transactions</i> , 1990, , 1429-1432.	1.1	117
99	Bond Activation by Metal-Ligand Cooperation: Design of "Green" Catalytic Reactions Based on Aromatization-De aromatization of Pincer Complexes. <i>Topics in Organometallic Chemistry</i> , 2011, , 55-84.	0.7	117
100	Catalytic coupling of nitriles with amines to selectively form imines under mild hydrogen pressure. <i>Chemical Communications</i> , 2012, 48, 11853.	2.2	115
101	A novel liquid organic hydrogen carrier system based on catalytic peptide formation and hydrogenation. <i>Nature Communications</i> , 2015, 6, 6859.	5.8	115
102	System with Potential Dual Modes of Metal-Ligand Cooperation: Highly Catalytically Active Pyridine-Based PNNH-Ru Pincer Complexes. <i>Chemistry - A European Journal</i> , 2014, 20, 15727-15731.	1.7	114
103	The cis-alkyl and cis-acylrhodium and iridium hydrides. Model intermediates in homogeneous catalysis. <i>Accounts of Chemical Research</i> , 1984, 17, 221-226.	7.6	113
104	Selective hydrogenation of nitriles to primary amines catalyzed by a novel iron complex. <i>Chemical Communications</i> , 2016, 52, 1812-1815.	2.2	113
105	Unexpected Isomerization of acis- into atrans-Dihydride Complex. A Neutral Late Transition Metal Complex as a Hydride Donor. <i>Organometallics</i> , 1997, 16, 3786-3793.	1.1	112
106	Metallacarbenes from Diazoalkanes: An Experimental and Computational Study of the Reaction Mechanism. <i>Journal of the American Chemical Society</i> , 2003, 125, 6532-6546.	6.6	112
107	Selective Ortho C-H Activation of Haloarenes by an Ir(I) System. <i>Journal of the American Chemical Society</i> , 2003, 125, 4714-4715.	6.6	111
108	Aromatic vs Aliphatic C-H Bond Activation by Rhodium(I) as a Function of Agostic Interactions: A Catalytic H/D Exchange between Olefins and Methanol or Water. <i>Journal of the American Chemical Society</i> , 2003, 125, 11041-11050.	6.6	111

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109	Pincer η^6 -Hemilabile η^5 -Effect. PCN Platinum(II) Complexes with Different Amine η^6 -Arm Lengths. <i>Organometallics</i> , 2005, 24, 1082-1090.	1.1	111
110	Metal η^6 -ligand cooperation in the trans addition of dihydrogen to a pincer Ir(i) complex: a DFT study. <i>Dalton Transactions</i> , 2009, , 9433.	1.6	111
111	Directly Observed Oxidative Addition of a Strong Carbon-Carbon Bond to a Soluble Metal Complex. <i>Journal of the American Chemical Society</i> , 1995, 117, 9774-9775.	6.6	110
112	Activation of Nitriles by Metal Ligand Cooperation. Reversible Formation of Ketimido- and Enamido-Rhenium PNP Pincer Complexes and Relevance to Catalytic Design. <i>Journal of the American Chemical Society</i> , 2013, 135, 17004-17018.	6.6	110
113	Ruthenium Pincer η^6 -Catalyzed Cross η^6 -Dehydrogenative Coupling of Primary Alcohols with Secondary Alcohols under Neutral Conditions. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 2403-2406.	2.1	109
114	Transition-metal-catalyzed cyclization of alkynoic acids to alkylidene lactones. <i>Journal of the American Chemical Society</i> , 1987, 109, 6385-6388.	6.6	106
115	N η^6 -Substituted Hydrazones by Manganese η^6 -Catalyzed Coupling of Alcohols with Hydrazine: Borrowing Hydrogen and Acceptorless Dehydrogenation in One System. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2179-2182.	7.2	104
116	Ethylene glycol as an efficient and reversible liquid-organic hydrogen carrier. <i>Nature Catalysis</i> , 2019, 2, 415-422.	16.1	102
117	Silanol-Based Pincer Pt(II) Complexes: Synthesis, Structure, and Unusual Reactivity. <i>Inorganic Chemistry</i> , 2008, 47, 7177-7189.	1.9	101
118	Hydrogenative Depolymerization of Nylons. <i>Journal of the American Chemical Society</i> , 2020, 142, 14267-14275.	6.6	101
119	ortho-C η^6 -H Activation of Haloarenes and Anisole by an Electron-Rich Iridium(I) Complex: A Mechanism and Origin of Regio- and η^6 -Chemoselectivity. An Experimental and Theoretical Study. <i>Organometallics</i> , 2006, 25, 3190-3210.	1.1	100
120	Highly Selective, Efficient Deoxygenative Hydrogenation of Amides Catalyzed by a Manganese Pincer Complex via Metal η^6 -Ligand Cooperation. <i>ACS Catalysis</i> , 2018, 8, 8014-8019.	5.5	100
121	Unprecedented iron-catalyzed selective hydrogenation of activated amides to amines and alcohols. <i>Chemical Communications</i> , 2016, 52, 5285-5288.	2.2	99
122	Metal η^6 -ligand cooperation by aromatization η^6 -dearomatization as a tool in single bond activation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140189.	1.6	98
123	η^6 -Selective (Cross η^6) Dimerization of Terminal Alkynes Catalyzed by an Iron Complex. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6942-6945.	7.2	98
124	Synthesis and Reactivity of an Iridium(I) Acetylonyl PNP Complex. Experimental and Computational Study of Metal η^6 -Ligand Cooperation in H η^6 -H and C η^6 -H Bond Activation via Reversible Ligand Dearomatization. <i>Organometallics</i> , 2010, 29, 3817-3827.	1.1	97
125	Catalytic selective cleavage of a strong C η^6 -C single bond by rhodium in solution. <i>Chemical Communications</i> , 1998, , 687-688.	2.2	96
126	Rechargeable Hydrogen Storage System Based on the Dehydrogenative Coupling of Ethylenediamine with Ethanol. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1061-1064.	7.2	94

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127	A New General Method for the Preparation of Metal Carbene Complexes. <i>Journal of the American Chemical Society</i> , 2001, 123, 5372-5373.	6.6	92
128	Manganese Catalyzed Hydrogenation of Carbamates and Urea Derivatives. <i>Journal of the American Chemical Society</i> , 2019, 141, 12962-12966.	6.6	92
129	Highly efficient additive-free dehydrogenation of neat formic acid. <i>Nature Catalysis</i> , 2021, 4, 193-201.	16.1	92
130	Direct Observation of Reductive Elimination of Methyl Iodide from a Rhodium(III) Pincer Complex: The Importance of Sterics. <i>Journal of the American Chemical Society</i> , 2006, 128, 12434-12435.	6.6	91
131	Chelate effect on the structure and reactivity of electron-rich palladium complexes and its relevance to catalysis. <i>Organometallics</i> , 1993, 12, 1655-1664.	1.1	90
132	Reductive Cleavage of CO ₂ by Metal-Ligand-Cooperation Mediated by an Iridium Pincer Complex. <i>Journal of the American Chemical Society</i> , 2016, 138, 6445-6454.	6.6	88
133	C-F bond activation by iridium(I). A unique process involving P-C bond cleavage, P-F bond formation and net retention of oxidation state. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, .	2.0	86
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