Paul J Chirik

List of Publications by Year
in descending order

371 papers	21,018 citations	5896 81 h-index	10734 138 g-index
384 all docs	384 docs citations	384 times ranked	9513 citing authors

#	Article	IF	Citations
1	Radical Ligands Confer Nobility on Base-Metal Catalysts. Science, 2010, 327, 794-795.	12.6	810
2	Preparation and Molecular and Electronic Structures of Iron(0) Dinitrogen and Silane Complexes and Their Application to Catalytic Hydrogenation and Hydrosilation. Journal of the American Chemical Society, 2004, 126, 13794-13807.	13.7	765
3	Iron- and Cobalt-Catalyzed Alkene Hydrogenation: Catalysis with Both Redox-Active and Strong Field Ligands. Accounts of Chemical Research, 2015, 48, 1687-1695.	15.6	604
4	Earth-abundant transition metal catalysts for alkene hydrosilylation and hydroboration. Nature Reviews Chemistry, 2018, 2, 15-34.	30.2	591
5	Hydrogenation and cleavage of dinitrogen to ammonia with a zirconium complex. Nature, 2004, 427, 527-530.	27.8	572
6	Iron Catalysts for Selective Anti-Markovnikov Alkene Hydrosilylation Using Tertiary Silanes. Science, 2012, 335, 567-570.	12.6	477
7	Electronic Structure of Bis(imino)pyridine Iron Dichloride, Monochloride, and Neutral Ligand Complexes:Â A Combined Structural, Spectroscopic, and Computational Study. Journal of the American Chemical Society, 2006, 128, 13901-13912.	13.7	457
8	Preface: Forum on Redox-Active Ligands. Inorganic Chemistry, 2011, 50, 9737-9740.	4.0	367
9	Cobalt Precursors for High-Throughput Discovery of Base Metal Asymmetric Alkene Hydrogenation Catalysts. Science, 2013, 342, 1076-1080.	12.6	346
10	Bis(imino)pyridine Cobalt-Catalyzed Alkene Isomerizationâ€“Hydroboration: A Strategy for Remote Hydrofunctionalization with Terminal Selectivity. Journal of the American Chemical Society, 2013, 135, 19107-19110.	13.7	337
11	Iron-Catalyzed [2Ï€ + 2Ï€] Cycloaddition of Î±,Ï‰-Dienes:Â The Importance of Redox-Active Supporting Ligands. Journal of the American Chemical Society, 2006, 128, 13340-13341.	13.7	314
12	Enantiopure C₁-Symmetric Bis(imino)pyridine Cobalt Complexes for Asymmetric Alkene Hydrogenation. Journal of the American Chemical Society, 2012, 134, 4561-4564.	13.7	313
13	Getting Down to Earth: The Renaissance of Catalysis with Abundant Metals. Accounts of Chemical Research, 2015, 48, 2495-2495.	15.6	311
14	Iron-catalysed tritiation of pharmaceuticals. Nature, 2016, 529, 195-199.	27.8	311
15	Using natureâ€™s blueprint to expand catalysis with Earth-abundant metals. Science, 2020, 369, .	12.6	306
16	Cobalt-Catalyzed Câ€“H Borylation. Journal of the American Chemical Society, 2014, 136, 4133-4136.	13.7	276
17	Iron-Catalyzed, Hydrogen-Mediated Reductive Cyclization of 1,6-Enynes and Diynes: Evidence for Bis(imino)pyridine Ligand Participation. Journal of the American Chemical Society, 2009, 131, 8772-8774.	13.7	246
18	Cobalt Catalyzed Z-Selective Hydroboration of Terminal Alkynes and Elucidation of the Origin of Selectivity. Journal of the American Chemical Society, 2015, 137, 5855-5858.	13.7	229

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19	Cobalt-catalyzed asymmetric hydrogenation of enamides enabled by single-electron reduction. Science, 2018, 360, 888-893.	12.6	219
20	High-Activity Iron Catalysts for the Hydrogenation of Hindered, Unfunctionalized Alkenes. ACS Catalysis, 2012, 2, 1760-1764.	11.2	203
21	Cobalt-Catalyzed Benzylic Borylation: Enabling Polyborylation and Functionalization of Remote, Unactivated C(sp³)â€“H Bonds. Journal of the American Chemical Society, 2016, 138, 766-769.	13.7	200
22	Bis(imino)pyridine Iron Complexes for Aldehyde and Ketone Hydrosilylation. Organic Letters, 2008, 10, 2789-2792.	4.6	198
23	Synthesis and Hydrogenation of Bis(imino)pyridine Iron Imides. Journal of the American Chemical Society, 2006, 128, 5302-5303.	13.7	197
24	Bis(imino)pyridine Cobalt-Catalyzed Dehydrogenative Silylation of Alkenes: Scope, Mechanism, and Origins of Selective Allylsilane Formation. Journal of the American Chemical Society, 2014, 136, 12108-12118.	13.7	196
25	Alkene Isomerizationâ€“Hydroboration Promoted by Phosphine-Ligated Cobalt Catalysts. Organic Letters, 2015, 17, 2716-2719.	4.6	196
26	Enantiopure Pyridine Bis(oxazoline) â€œPyboxâ€•and Bis(oxazoline) â€œBoxâ€•Iron Dialkyl Complexes: Comparison to Bis(imino)pyridine Compounds and Application to Catalytic Hydrosilylation of Ketones. Organometallics, 2009, 28, 3928-3940.	2.3	193
27	Catalytic Hydrogenation Activity and Electronic Structure Determination of Bis(arylimidazol-2-ylidene)pyridine Cobalt Alkyl and Hydride Complexes. Journal of the American Chemical Society, 2013, 135, 13168-13184.	13.7	192
28	Arene Coordination in Bis(imino)pyridine Iron Complexes:Â Identification of Catalyst Deactivation Pathways in Iron-Catalyzed Hydrogenation and Hydrosilation. Organometallics, 2006, 25, 4269-4278.	2.3	183
29	Highly Selective Bis(imino)pyridine Iron-Catalyzed Alkene Hydroboration. Organic Letters, 2013, 15, 2680-2683.	4.6	182
30	Functional Group Tolerance and Substrate Scope in Bis(imino)pyridine Iron Catalyzed Alkene Hydrogenation. Organometallics, 2008, 27, 1470-1478.	2.3	181
31	Dinitrogen cleavage and functionalization by carbon monoxide promoted by a hafnium complex. Nature Chemistry, 2010, 2, 30-35.	13.6	181
32	Cobalt-Catalyzed Enantioselective Hydrogenation of Minimally Functionalized Alkenes: Isotopic Labeling Provides Insight into the Origin of Stereoselectivity and Alkene Insertion Preferences. Journal of the American Chemical Society, 2016, 138, 3314-3324.	13.7	179
33	Synthesis and Molecular and Electronic Structures of Reduced Bis(imino)pyridine Cobalt Dinitrogen Complexes: Ligand versus Metal Reduction. Journal of the American Chemical Society, 2010, 132, 1676-1684.	13.7	175
34	Alkene Hydrosilylation Using Tertiary Silanes with Î±-Diimine Nickel Catalysts. Redox-Active Ligands Promote a Distinct Mechanistic Pathway from Platinum Catalysts. ACS Catalysis, 2016, 6, 4105-4109.	11.2	173
35	Iron-catalyzed intermolecular [2+2] cycloadditions of unactivated alkenes. Science, 2015, 349, 960-963.	12.6	171
36	Coordination-induced weakening of ammonia, water, and hydrazine Xâ€“H bonds in a molybdenum complex. Science, 2016, 354, 730-733.	12.6	165

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37	Nickel-Catalyzed Asymmetric Alkene Hydrogenation of Î±,Î²-Unsaturated Esters: High-Throughput Experimentation-Enabled Reaction Discovery, Optimization, and Mechanistic Elucidation. Journal of the American Chemical Society, 2016, 138, 3562-3569.	13.7	165
38	Low-Valent Î±-Diimine Iron Complexes for Catalytic Olefin Hydrogenation. Organometallics, 2005, 24, 5518-5527.	2.3	163
39	High-Activity Cobalt Catalysts for Alkene Hydroboration with Electronically Responsive Terpyridine and Î±-Diimine Ligands. ACS Catalysis, 2015, 5, 622-626.	11.2	163
40	Synthesis and Electronic Structure of Cationic, Neutral, and Anionic Bis(imino)pyridine Iron Alkyl Complexes: Evaluation of Redox Activity in Single-Component Ethylene Polymerization Catalysts. Journal of the American Chemical Society, 2010, 132, 15046-15059.	13.7	155
41	Bis(imino)pyridine Iron(II) Alkyl Cations for Olefin Polymerization. Journal of the American Chemical Society, 2005, 127, 9660-9661.	13.7	154
42	Beyond Ammonia: Nitrogenâ€“Element Bond Forming Reactions with Coordinated Dinitrogen. Chemical Reviews, 2020, 120, 5637-5681.	47.7	154
43	Four-Coordinate Cobalt Pincer Complexes: Electronic Structure Studies and Ligand Modification by Homolytic and Heterolytic Pathways. Journal of the American Chemical Society, 2014, 136, 9211-9224.	13.7	152
44	Bis(diisopropylphosphino)pyridine Iron Dicarbonyl, Dihydride, and Silyl Hydride Complexes. Inorganic Chemistry, 2006, 45, 7252-7260.	4.0	150
45	Selective, Catalytic Carbonâ^'Carbon Bond Activation and Functionalization Promoted by Late Transition Metal Catalysts. Journal of the American Chemical Society, 2003, 125, 886-887.	13.7	142
46	Iron-Catalyzed Intermolecular [2Ï€ + 2Ï€] Cycloaddition. Journal of the American Chemical Society, 2011, 133, 8858-8861.	13.7	142
47	Synthesis, Electronic Structure, and Alkene Hydrosilylation Activity of Terpyridine and Bis(imino)pyridine Iron Dialkyl Complexes. Organometallics, 2012, 31, 4886-4893.	2.3	139
48	Bench-Stable, Substrate-Activated Cobalt Carboxylate Pre-Catalysts for Alkene Hydrosilylation with Tertiary Silanes. ACS Catalysis, 2016, 6, 2632-2636.	11.2	137
49	Cobalt-Catalyzed 1,1-Diboration of Terminal Alkynes: Scope, Mechanism, and Synthetic Applications. Journal of the American Chemical Society, 2017, 139, 3868-3875.	13.7	132
50	Dinitrogen functionalization with bis(cyclopentadienyl) complexes of zirconium and hafnium. Dalton Transactions, 2007, , 16-25.	3.3	131
51	Oxidative Addition of Carbonâ€“Carbon Bonds with a Redox-Active Bis(imino)pyridine Iron Complex. Journal of the American Chemical Society, 2012, 134, 17125-17137.	13.7	131
52	Bis(imino)pyridine Iron Dinitrogen Compounds Revisited: Differences in Electronic Structure Between Four- and Five-Coordinate Derivatives.. Inorganic Chemistry, 2012, 51, 3770-3785.	4.0	126
53	Carbonâ€“Carbon Bond Formation in a Weak Ligand Field: Leveraging Openâ€Shell Firstâ€Row Transitionâ€Metal Catalysts. Angewandte Chemie - International Edition, 2017, 56, 5170-5181.	13.8	126
54	Synthesis of Aryl-Substituted Bis(imino)pyridine Iron Dinitrogen Complexes. Inorganic Chemistry, 2010, 49, 2782-2792.	4.0	124

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55	Synthesis and Electronic Structure of Bis(imino)pyridine Iron Metallacyclic Intermediates in Iron-Catalyzed Cyclization Reactions. Journal of the American Chemical Society, 2013, 135, 4862-4877.	13.7	122
56	High-Selectivity Bis(imino)pyridine Iron Catalysts for the Hydrosilylation of 1,2,4-Trivinylcyclohexane. ACS Catalysis, 2012, 2, 2169-2172.	11.2	121
57	Square Planar vs Tetrahedral Geometry in Four Coordinate Iron(II) Complexes. Inorganic Chemistry, 2005, 44, 3103-3111.	4.0	119
58	Bis(phosphine)cobalt Dialkyl Complexes for Directed Catalytic Alkene Hydrogenation. Journal of the American Chemical Society, 2014, 136, 13178-13181.	13.7	117
59	Carbon Dioxide Hydrosilylation Promoted by Cobalt Pincer Complexes. Inorganic Chemistry, 2014, 53, 9463-9465.	4.0	116
60	Cobalt-Catalyzed C(sp²)-H Borylation: Mechanistic Insights Inspire Catalyst Design. Journal of the American Chemical Society, 2016, 138, 10645-10653.	13.7	116
61	Photolysis and Thermolysis of Bis(imino)pyridine Cobalt Azides: Câˆ'H Activation from Putative Cobalt Nitrido Complexes. Journal of the American Chemical Society, 2010, 132, 16343-16345.	13.7	114
62	Neutral-Ligand Complexes of Bis(imino)pyridine Iron:â€‰ Synthesis, Structure, and Spectroscopy. Inorganic Chemistry, 2007, 46, 7055-7063.	4.0	111
63	Synthesis, Reactivity, and Solid State Structures of Four-Coordinate Iron(II) and Manganese(II) Alkyl Complexes. Organometallics, 2004, 23, 237-246.	2.3	109
64	Enabling Two-Electron Pathways with Iron and Cobalt: From Ligand Design to Catalytic Applications. Journal of the American Chemical Society, 2019, 141, 9106-9123.	13.7	109
65	C(sp²)â€"H Borylation of Fluorinated Arenes Using an Air-Stable Cobalt Precatalyst: Electronically Enhanced Site Selectivity Enables Synthetic Opportunities. Journal of the American Chemical Society, 2017, 139, 2825-2832.	13.7	107
66	Square planar bis(imino)pyridine iron halide and alkyl complexes. Chemical Communications, 2005, , 3406.	4.1	104
67	Benzyltriboronates: Building Blocks for Diastereoselective Carbonâ€"Carbon Bond Formation. Journal of the American Chemical Society, 2017, 139, 2589-2592.	13.7	99
68	ReducedN-Alkyl Substituted Bis(imino)pyridine Cobalt Complexes: Molecular and Electronic Structures for Compounds Varying by Three Oxidation States. Inorganic Chemistry, 2010, 49, 6110-6123.	4.0	94
69	Synthesis and Electronic Structure Determination of N-Alkyl-Substituted Bis(imino)pyridine Iron Imides Exhibiting Spin Crossover Behavior. Journal of the American Chemical Society, 2011, 133, 17353-17369.	13.7	94
70	Ni(I)â€"X Complexes Bearing a Bulky Î±-Diimine Ligand: Synthesis, Structure, and Superior Catalytic Performance in the Hydrogen Isotope Exchange in Pharmaceuticals. Journal of the American Chemical Society, 2019, 141, 5034-5044.	13.7	92
71	Iron Diazoalkane Chemistry:Â Nâˆ'N Bond Hydrogenation and Intramolecular Câˆ'H Activation. Journal of the American Chemical Society, 2007, 129, 7212-7213.	13.7	91
72	Nitrogenâ€"Carbon Bond Formation from N2 and CO2 Promoted by a Hafnocene Dinitrogen Complex Yields a Substituted Hydrazine. Angewandte Chemie - International Edition, 2007, 46, 2858-2861.	13.8	91

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73	Carbonâ^'Oxygen Bond Cleavage by Bis(imino)pyridine Iron Compounds: Catalyst Deactivation Pathways and Observation of Acyl Câ^'O Bond Cleavage in Esters. Organometallics, 2008, 27, 6264-6278.	2.3	90
74	On the Origin of Dinitrogen Hydrogenation Promoted by [(Î·5-C5Me4H)2Zr]2(Î¼2,Î·2,Î·2-N2). Journal of the American Chemical Society, 2004, 126, 14326-14327.	13.7	89
75	Kinetics and Mechanism of N2Hydrogenation in Bis(cyclopentadienyl) Zirconium Complexes and Dinitrogen Functionalization by 1,2-Addition of a Saturated Câ^'H Bond. Journal of the American Chemical Society, 2005, 127, 14051-14061.	13.7	88
76	Synthesis of Bis(imino)pyridine Iron Di- and Monoalkyl Complexes: Stability Differences between FeCH₂SiMe₃ and FeCH₂CMe₃ Derivatives. Organometallics, 2008, 27, 109-118.	2.3	87
77	Cobalt-Catalyzed Asymmetric Hydrogenation of Î±,Î²-Unsaturated Carboxylic Acids by Homolytic H₂ Cleavage. Journal of the American Chemical Society, 2020, 142, 5272-5281.	13.7	87
78	Dinitrogen Activation by Titanium Sandwich Complexes. Journal of the American Chemical Society, 2004, 126, 14688-14689.	13.7	85
79	Evaluation of Cobalt Complexes Bearing Tridentate Pincer Ligands for Catalytic Câ€“H Borylation. Organometallics, 2015, 34, 1307-1320.	2.3	85
80	Nâ^'C Bond Formation Promoted by a Hafnocene Dinitrogen Complex:Â Comparison of Zirconium and Hafnium Congeners. Journal of the American Chemical Society, 2006, 128, 10696-10697.	13.7	83
81	Carbon Monoxide-Induced Dinitrogen Cleavage with Group 4 Metallocenes: Reaction Scope and Coupling to Nâ^'H Bond Formation and CO Deoxygenation. Journal of the American Chemical Society, 2010, 132, 10553-10564.	13.7	83
82	Cobalt-Catalyzed Stereoretentive Hydrogen Isotope Exchange of C(sp³)â€“H Bonds. ACS Catalysis, 2017, 7, 5674-5678.	11.2	83
83	N2Hydrogenation Promoted by a Side-On Bound Hafnocene Dinitrogen Complex. Organometallics, 2006, 25, 1021-1027.	2.3	82
84	Cobalt-Catalyzed [2Ï€ + 2Ï€] Cycloadditions of Alkenes: Scope, Mechanism, and Elucidation of Electronic Structure of Catalytic Intermediates. Journal of the American Chemical Society, 2015, 137, 7903-7914.	13.7	79
85	Bis(imino)pyridine Iron Alkyls Containing Î²-Hydrogens: Synthesis, Evaluation of Kinetic Stability, and Decomposition Pathways Involving Chelate Participation. Journal of the American Chemical Society, 2008, 130, 11631-11640.	13.7	78
86	Synthesis, electronic structure and reactivity of bis(imino)pyridine iron carbene complexes: evidence for a carbene radical. Chemical Science, 2014, 5, 1168-1174.	7.4	78
87	Ammonia Activation, H₂ Evolution and Nitride Formation from a Molybdenum Complex with a Chemically and Redox Noninnocent Ligand. Journal of the American Chemical Society, 2017, 139, 6110-6113.	13.7	78
88	Oxidation and Reduction of Bis(imino)pyridine Iron Dinitrogen Complexes: Evidence for Formation of a Chelate Trianion.. Inorganic Chemistry, 2013, 52, 635-646.	4.0	77
89	Expanding Boundaries: N₂ Cleavage and Functionalization beyond Early Transition Metals. Angewandte Chemie - International Edition, 2016, 55, 7892-7896.	13.8	76
90	Selective [1,4]-Hydrovinylation of 1,3-Dienes with Unactivated Olefins Enabled by Iron Diimine Catalysts. Journal of the American Chemical Society, 2018, 140, 3443-3453.	13.7	75

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91	Insight into Transmetalation Enables Cobalt-Catalyzed Suzukiâ€“Miyaura Cross Coupling. ACS Central Science, 2016, 2, 935-942.	11.3	74
92	Dinitrogen Silylation and Cleavage with a Hafnocene Complex. Journal of the American Chemical Society, 2011, 133, 10406-10409.	13.7	73
93	Cobalt-Catalyzed C(sp²)â€“H Borylation with an Air-Stable, Readily Prepared Terpyridine Cobalt(II) Bis(acetate) Precatalyst. Organometallics, 2017, 36, 142-150.	2.3	73
94	Synthesis of a Base-Free Hafnium Nitride from N₂ Cleavage: A Versatile Platform for Dinitrogen Functionalization. Journal of the American Chemical Society, 2013, 135, 11373-11383.	13.7	71
95	Oxidative addition and Câ€“H activation chemistry with a PNP pincer-ligated cobalt complex. Chemical Science, 2014, 5, 1956-1960.	7.4	71
96	Carboxylation of an ansa-Zirconocene Dinitrogen Complex:â€‰ Regiospecific Hydrazine Synthesis from N₂ and CO₂. Journal of the American Chemical Society, 2008, 130, 4248-4249.	13.7	69
97	Synthesis, Electronic Structure, and Catalytic Activity of Reduced Bis(aldimino)pyridine Iron Compounds: Experimental Evidence for Ligand Participation. Inorganic Chemistry, 2011, 50, 3159-3169.	4.0	69
98	Catalytic Proton Coupled Electron Transfer from Metal Hydrides to Titanocene Amides, Hydrazides and Imides: Determination of Thermodynamic Parameters Relevant to Nitrogen Fixation. Journal of the American Chemical Society, 2016, 138, 13379-13389.	13.7	69
99	Electronic Effects in 4-Substituted Bis(imino)pyridines and the Corresponding Reduced Iron Compounds. Organometallics, 2012, 31, 2275-2285.	2.3	68
100	Air-Stable Î±-Diimine Nickel Precatalysts for the Hydrogenation of Hindered, Unactivated Alkenes. ACS Catalysis, 2018, 8, 342-348.	11.2	68
101	Bis(imino)pyridine Ligand Deprotonation Promoted by a Transient Iron Amide. Inorganic Chemistry, 2006, 45, 2-4.	4.0	67
102	Synthesis, Electronic Structure, and Ethylene Polymerization Activity of Bis(imino)pyridine Cobalt Alkyl Cations. Angewandte Chemie - International Edition, 2011, 50, 8143-8147.	13.8	67
103	Ammonia Synthesis by Hydrogenolysis of Titaniumâ€“Nitrogen Bonds Using Proton Coupled Electron Transfer. Journal of the American Chemical Society, 2015, 137, 3498-3501.	13.7	65
104	Hydrogenation of N-Heteroarenes Using Rhodium Precatalysts: Reductive Elimination Leads to Formation of Multimetallic Clusters. Journal of the American Chemical Society, 2019, 141, 17900-17908.	13.7	65
105	Syntheses and Catalytic Hydrogenation Performance of Cationic Bis(phosphine) Cobalt(I) Diene and Arene Compounds. Angewandte Chemie - International Edition, 2019, 58, 9194-9198.	13.8	65
106	Reversible Carbonâ€“Carbon Bond Formation Induced by Oxidation and Reduction at a Redox-Active Cobalt Complex. Inorganic Chemistry, 2013, 52, 5403-5417.	4.0	64
107	Nâ‹¯N Bond Cleavage in Diazoalkanes by a Bis(imino)pyridine Iron Complex. Journal of the American Chemical Society, 2009, 131, 36-37.	13.7	60
108	Synthesis and Hydrogenation Activity of Iron Dialkyl Complexes with Chiral Bidentate Phosphines. Organometallics, 2014, 33, 5781-5790.	2.3	59

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109	Site-Selective Nickel-Catalyzed Hydrogen Isotope Exchange in N-Heterocycles and Its Application to the Tritiation of Pharmaceuticals. ACS Catalysis, 2018, 8, 10210-10218.	11.2	58
110	Regio- and Diastereoselective Iron-Catalyzed [4+4]-Cycloaddition of 1,3-Dienes. Journal of the American Chemical Society, 2019, 141, 8557-8573.	13.7	58
111	Synthesis and Electronic Structure of Reduced Bis(imino)pyridine Manganese Compounds. European Journal of Inorganic Chemistry, 2012, 2012, 535-545.	2.0	57
112	Synthesis and Ligand Modification Chemistry of a Molybdenum Dinitrogen Complex: Redox and Chemical Activity of a Bis(imino)pyridine Ligand. Angewandte Chemie - International Edition, 2014, 53, 14211-14215.	13.8	57
113	Functionalization of Hafnium Oxamidide Complexes Prepared from CO-Induced N₂ Cleavage. Journal of the American Chemical Society, 2010, 132, 15340-15350.	13.7	55
114	A Boron Activating Effect Enables Cobalt-Catalyzed Asymmetric Hydrogenation of Sterically Hindered Alkenes. Journal of the American Chemical Society, 2020, 142, 3923-3930.	13.7	55
115	Studies into the Mechanism of CO-Induced N₂ Cleavage Promoted by an Ansa-Hafnocene Complex and Câ€“C Bond Formation from an Observed Intermediate. Journal of the American Chemical Society, 2012, 134, 3377-3386.	13.7	54
116	Mechanistic Studies of Cobalt-Catalyzed C(sp²)â€“H Borylation of Five-Membered Heteroarenes with Pinacolborane. ACS Catalysis, 2017, 7, 4366-4371.	11.2	51
117	Iron-catalysed synthesis and chemical recycling of telechelic 1,3-enchained oligocyclobutanes. Nature Chemistry, 2021, 13, 156-162.	13.6	51
118	Mono(dinitrogen) and Carbon Monoxide Adducts of Bis(cyclopentadienyl) Titanium Sandwiches. Journal of the American Chemical Society, 2006, 128, 6018-6019.	13.7	50
119	Structure and Reactivity of a Hafnocene Î¼â€Nitrido Prepared From Dinitrogen Cleavage. Angewandte Chemie - International Edition, 2012, 51, 5213-5216.	13.8	50
120	Terpyridine Molybdenum Dinitrogen Chemistry: Synthesis of Dinitrogen Complexes That Vary by Five Oxidation States. Inorganic Chemistry, 2016, 55, 3117-3127.	4.0	49
121	Nâ€“N Bond Cleavage of 1,2-Diarylhydrazines and Nâ€“H Bond Formation via H-Atom Transfer in Vanadium Complexes Supported by a Redox-Active Ligand. Journal of the American Chemical Society, 2014, 136, 12099-12107.	13.7	46
122	Electronic Structure Determination of Pyridine N-Heterocyclic Carbene Iron Dinitrogen Complexes and Neutral Ligand Derivatives. Organometallics, 2014, 33, 5423-5433.	2.3	45
123	Side-on Dinitrogen Complexes of Titanocenes with Disubstituted Cyclopentadienyl Ligands: Synthesis, Structure, and Spectroscopic Characterization. Organometallics, 2012, 31, 3672-3682.	2.3	44
124	Cobalt-Catalyzed Borylation of Fluorinated Arenes: Thermodynamic Control of C(sp²)-H Oxidative Addition Results in ortho-to-Fluorine Selectivity. Journal of the American Chemical Society, 2019, 141, 15378-15389.	13.7	44
125	Ketone Synthesis from Benzyldiboronates and Esters: Leveraging Î±-Boryl Carbanions for Carbonâ€“Carbon Bond Formation. Journal of the American Chemical Society, 2020, 142, 2429-2437.	13.7	44
126	Synthesis and Characterization of Zirconium and Iron Complexes Containing Substituted Indenyl Ligands:Â Evaluation of Steric and Electronic Parameters. Organometallics, 2004, 23, 5332-5346.	2.3	43

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127	Nâ€“H Bond Formation in a Manganese(V) Nitride Yields Ammonia by Light-Driven Proton-Coupled Electron Transfer. Journal of the American Chemical Society, 2019, 141, 4795-4799.	13.7	43
128	An Editorial About Elemental Analysis. Organometallics, 2016, 35, 3255-3256.	2.3	40
129	Remote, Diastereoselective Cobalt-Catalyzed Alkene Isomerizationâ€“Hydroboration: Access to Stereodefined 1,3-Difunctionalized Indanes. ACS Catalysis, 2019, 9, 9034-9044.	11.2	40
130	Addition of Methyl Triflate to a Hafnocene Dinitrogen Complex: Stepwise N₂ Methylation and Conversion to a Hafnocene Hydrazonato Compound. Journal of the American Chemical Society, 2009, 131, 14903-14912.	13.7	39
131	Interconversion of Molybdenum Imido and Amido Complexes by Protonâ€Coupled Electron Transfer. Angewandte Chemie - International Edition, 2018, 57, 2224-2228.	13.8	39
132	Cobalt Pincer Complexes in Catalytic Câ€“H Borylation: The Pincer Ligand Flips Rather Than Dearomatizes. ACS Catalysis, 2018, 8, 10606-10618.	11.2	39
133	[4 + 4]-cycloaddition of isoprene for the production of high-performance bio-based jet fuel. Green Chemistry, 2019, 21, 5616-5623.	9.0	36
134	Investigations into the Mechanism of Inter- and Intramolecular Iron-Catalyzed [2 + 2] Cycloaddition of Alkenes. Journal of the American Chemical Society, 2020, 142, 5314-5330.	13.7	36
135	Synthesis of Iron Hydride Complexes Relevant to Hydrogen Isotope Exchange in Pharmaceuticals. Organometallics, 2017, 36, 4341-4343.	2.3	35
136	Pyridine(diimine) Molybdenum-Catalyzed Hydrogenation of Arenes and Hindered Olefins: Insights into Precatalyst Activation and Deactivation Pathways. ACS Catalysis, 2018, 8, 5276-5285.	11.2	35
137	Visible-Light-Enhanced Cobalt-Catalyzed Hydrogenation: Switchable Catalysis Enabled by Divergence between Thermal and Photochemical Pathways. ACS Catalysis, 2021, 11, 1351-1360.	11.2	34
138	Functionalization of Elemental Phosphorus with [Zr(5-C5Me5)(5-C5H4tBu)H2]2. Angewandte Chemie - International Edition, 2002, 41, 3463-3465.	13.8	33
139	Cobalt-catalysed alkene hydrogenation: a metallacycle can explain the hydroxyl activating effect and the diastereoselectivity. Chemical Science, 2018, 9, 4977-4982.	7.4	31
140	Iron-Mediated Coupling of Carbon Dioxide and Ethylene: Macrocyclic Metallalactones Enable Access to Various Carboxylates. Journal of the American Chemical Society, 2018, 140, 11589-11593.	13.7	31
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