

David Milstein

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40,222
ext. citations

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#	Paper	IF	Citations
418	Cyclometalated phosphine-based pincer complexes: mechanistic insight in catalysis, coordination, and bond activation. <i>Chemical Reviews</i> , 2003 , 103, 1759-92	68.1	1472
417	Direct synthesis of amides from alcohols and amines with liberation of H ₂ . <i>Science</i> , 2007 , 317, 790-2	33.3	1056
416	Applications of acceptorless dehydrogenation and related transformations in chemical synthesis. <i>Science</i> , 2013 , 341, 1229712	33.3	994
415	Metal-ligand cooperation by aromatization-dearomatization: a new paradigm in bond activation and "green" catalysis. <i>Accounts of Chemical Research</i> , 2011 , 44, 588-602	24.3	847
414	Metal-ligand cooperation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12236-73	16.4	738
413	Metal Insertion into C-C Bonds in Solution. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 870-883	16.4	697
412	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	16.4	678
411	Bond activation and catalysis by ruthenium pincer complexes. <i>Chemical Reviews</i> , 2014 , 114, 12024-87	68.1	664
410	Facile conversion of alcohols into esters and dihydrogen catalyzed by new ruthenium complexes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10840-1	16.4	652
409	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, 609-14	17.6	509
408	Efficient homogeneous catalytic hydrogenation of esters to alcohols. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 1113-5	16.4	461
407	Low-pressure hydrogenation of carbon dioxide catalyzed by an iron pincer complex exhibiting noble metal activity. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9948-52	16.4	445
406	Selective synthesis of primary amines directly from alcohols and ammonia. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8661-4	16.4	436
405	Highly Active Pd(II) PCP-Type Catalysts for the Heck Reaction. <i>Journal of the American Chemical Society</i> , 1997 , 119, 11687-11688	16.4	423
404	Consecutive thermal H ₂ and light-induced O ₂ evolution from water promoted by a metal complex. <i>Science</i> , 2009 , 324, 74-7	33.3	421
403	Hydrogenation and dehydrogenation iron pincer catalysts capable of metal-ligand cooperation by aromatization/dearomatization. <i>Accounts of Chemical Research</i> , 2015 , 48, 1979-94	24.3	414
402	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	16.4	400

401	Direct synthesis of imines from alcohols and amines with liberation of H ₂ . <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1468-71	16.4	389
400	Direct hydrogenation of amides to alcohols and amines under mild conditions. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16756-8	16.4	348
399	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, 4298-301	16.4	314
398	Efficient hydrogenation of ketones catalyzed by an iron pincer complex. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2120-4	16.4	310
397	Catalytic activation of carbon-fluorine bonds by a soluble transition metal complex. <i>Science</i> , 1994 , 265, 359-61	33.3	279
396	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	16.4	279
395	Homogeneous Catalysis by Cobalt and Manganese Pincer Complexes. <i>ACS Catalysis</i> , 2018 , 8, 11435-11469	3.1	277
394	Electron-Rich, Bulky Ruthenium PNP-Type Complexes. Acceptorless Catalytic Alcohol Dehydrogenation. <i>Organometallics</i> , 2004 , 23, 4026-4033	3.8	265
393	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	2.3	256
392	Catalytic transformation of alcohols to carboxylic acid salts and H ₂ using water as the oxygen atom source. <i>Nature Chemistry</i> , 2013 , 5, 122-5	17.6	247
391	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, 3146-7	16.4	245
390	Direct synthesis of pyrroles by dehydrogenative coupling of aminoalcohols with secondary alcohols catalyzed by ruthenium pincer complexes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4012-5	16.4	242
389	Activation of a carbon-carbon bond in solution by transition-metal insertion. <i>Nature</i> , 1993 , 364, 699-701	50.4	240
388	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, 1682-5	16.4	224
387	Metallinsertion in C-C-Bindungen in Lösung. <i>Angewandte Chemie</i> , 1999 , 111, 918-932	3.6	216
386	Ru-catalyzed oxidative coupling of arenes with olefins using O ₂ . <i>Journal of the American Chemical Society</i> , 2001 , 123, 337-8	16.4	210
385	Metal-ligand cooperation in C-H and H ₂ activation by an electron-rich PNP Ir(I) system: facile ligand dearomatization-aromatization as key steps. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15390-1	16.4	204
384	Homogeneous rhodium complex-catalyzed hydrogenolysis of C-F bonds. <i>Journal of the American Chemical Society</i> , 1995 , 117, 8674-8675	16.4	203

- 383 N-H activation of amines and ammonia by Ru via metal-ligand cooperation. *Journal of the American Chemical Society*, **2010**, 132, 8542-3 16.4 200
- 382 Selective Hydrogenation of Nitriles to Primary Amines Catalyzed by a Cobalt Pincer Complex. *Journal of the American Chemical Society*, **2015**, 137, 8888-91 16.4 197
- 381 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 3.8 190
- 380 Efficient hydrogen liberation from formic acid catalyzed by a well-defined iron pincer complex under mild conditions. *Chemistry - A European Journal*, **2013**, 19, 8068-72 4.8 184
- 379 Iron pincer complex catalyzed, environmentally benign, E-selective semi-hydrogenation of alkynes. *Angewandte Chemie - International Edition*, **2013**, 52, 14131-4 16.4 178
- 378 Evidence for a terminal Pt(IV)-oxo complex exhibiting diverse reactivity. *Nature*, **2008**, 455, 1093-1096 50.4 176
- 377 Iron borohydride pincer complexes for the efficient hydrogenation of ketones under mild, base-free conditions: synthesis and mechanistic insight. *Chemistry - A European Journal*, **2012**, 18, 7196-209 4.8 172
- 376 Mechanism of aryl chloride oxidative addition to chelated palladium(0) complexes. *Organometallics*, **1993**, 12, 1665-1673 3.8 172
- 375 Selective Synthesis of Primary Amines Directly from Alcohols and Ammonia. *Angewandte Chemie*, **2008**, 120, 8789-8792 3.6 170
- 374 Highly active Pd(II) cyclometallated imine catalysts for the Heck reaction. *Chemical Communications*, **1999**, 357-358 5.8 169
- 373 New CNN-Type Ruthenium Pincer NHC Complexes. Mild, Efficient Catalytic Hydrogenation of Esters. *Organometallics*, **2011**, 30, 3826-3833 3.8 168
- 372 Highly active Pd(II) cyclometallated imine catalyst for the Suzuki reaction. *Chemical Communications*, **1999**, 1901-1902 5.8 167
- 371 Unprecedented iron-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, 4685-9 16.4 164
- 370 Manganese-Catalyzed Hydrogenation of Esters to Alcohols. *Chemistry - A European Journal*, **2017**, 23, 5934-5938 4.8 162
- 369 Metall-Ligand-Kooperation. *Angewandte Chemie*, **2015**, 127, 12406-12445 3.6 158
- 368 Alkyl and Aryl 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 16.4 157
- 367 A Room Temperature Direct Metal Insertion into a Nonstrained Carbon-Carbon Bond in Solution. C=C vs C-H Bond Activation. *Journal of the American Chemical Society*, **1996**, 118, 12406-12415 16.4 157
- 366 Mild, selective, general method of ketone synthesis from acid chlorides and organotin compounds catalyzed by palladium. *Journal of Organic Chemistry*, **1979**, 44, 1613-1618 4.2 157

365	Unprecedented catalytic hydrogenation of urea derivatives to amines and methanol. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11702-5	16.4	156
364	Efficient Homogeneous Catalytic Hydrogenation of Esters to Alcohols. <i>Angewandte Chemie</i> , 2006 , 118, 1131-1133	3.6	156
363	Chelate-assisted, palladium-catalyzed efficient carbonylation of aryl chlorides. <i>Journal of the American Chemical Society</i> , 1989 , 111, 8742-8744	16.4	156
362	Electron-rich, bulky PNN-type ruthenium complexes: synthesis, characterization and catalysis of alcohol dehydrogenation. <i>Dalton Transactions</i> , 2007 , 107-13	4.3	154
361	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	16.4	153
360	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	5.1	153
359	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	16.4	146
358	Reusable Homogeneous Catalytic System for Hydrogen Production from Methanol and Water. <i>ACS Catalysis</i> , 2014 , 4, 2649-2652	13.1	144
357	Aspects of intermediacy of carbalkoxymetal complexes in carbon monoxide reactions. <i>Accounts of Chemical Research</i> , 1988 , 21, 428-434	24.3	143
356	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	3.8	142
355	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, 6632-4	5.8	139
354	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	16.4	135
353	Cobalt-catalyzed hydrogenation of esters to alcohols: unexpected reactivity trend indicates ester enolate intermediacy. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12357-60	16.4	135
352	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	16.4	133
351	Synthesis of peptides and pyrazines from β -amino alcohols through extrusion of H ₂ catalyzed by ruthenium pincer complexes: ligand-controlled selectivity. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12240-4	16.4	129
350	Gd ³⁺ complexes as potential spin labels for high field pulsed EPR distance measurements. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14138-9	16.4	129
349	Combining Low-Pressure CO ₂ Capture and Hydrogenation To Form Methanol. <i>ACS Catalysis</i> , 2015 , 5, 2416-2422	13.1	124
348	Direct Synthesis of Imines from Alcohols and Amines with Liberation of H ₂ . <i>Angewandte Chemie</i> , 2010 , 122, 1510-1513	3.6	123

- 347 Advances in metal chemistry of quinonoid compounds: new types of interactions between metals and aromatics. *Accounts of Chemical Research*, **2001**, 34, 798-807 24.3 123
- 346 "Long-range" metal-ligand cooperation in H₂ activation and ammonia-promoted hydride transfer with a ruthenium-acridine pincer complex. *Journal of the American Chemical Society*, **2010**, 132, 14763-5 16.4 121
- 345 Aldehyde binding through reversible C-C coupling with the pincer ligand upon alcohol dehydrogenation by a PNP-ruthenium catalyst. *Journal of the American Chemical Society*, **2012**, 134, 10325-8 16.4 118
- 344 Synthesis, Structure, and Reactivity of New Rhodium and Iridium Complexes, Bearing a Highly Electron-Donating PNP System. Iridium-Mediated Vinyl C=C Bond Activation. *Organometallics*, **2002**, 21, 812-818 3.8 118
- 343 Complexation of N₂, H₂, CO₂, and Ethylene to a T-Shaped Rhodium(I) Core. *Organometallics*, **1996**, 15, 1839-1844 3.8 117
- 342 Reactions of Electron-Rich Arylpalladium Complexes with Olefins. Origin of the Chelate Effect in Vinylation Catalysis. *Organometallics*, **1994**, 13, 3465-3479 3.8 117
- 341 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, 2269-72 16.4 116
- 340 Direct Synthesis of Benzimidazoles by Dehydrogenative Coupling of Aromatic Diamines and Alcohols Catalyzed by Cobalt. *ACS Catalysis*, **2017**, 7, 7456-7460 13.1 115
- 339 Palladium-catalyzed vinylation of aryl chlorides. Chelate effect in catalysis. *Organometallics*, **1992**, 11, 1995-1996 3.8 115
- 338 A new mode of activation of CO₂ by metal-ligand cooperation with reversible C-C and M-O bond formation at ambient temperature. *Chemistry - A European Journal*, **2012**, 18, 9194-7 4.8 114
- 337 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 16.4 114
- 336 Bond Activation by Metal-Ligand Cooperation: Design of Green Catalytic Reactions Based on Aromatization-De aromatization of Pincer Complexes. *Topics in Organometallic Chemistry*, **2011**, 55-84 0.6 113
- 335 Impact of molecular order in langmuir-blodgett films on catalysis. *Science*, **1997**, 278, 2100-2 33.3 113
- 334 Manganese Catalyzed Olefination of Nitriles by Primary Alcohols. *Journal of the American Chemical Society*, **2017**, 139, 11710-11713 16.4 112
- 333 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 16.4 110
- 332 Efficient hydrogenation of biomass-derived cyclic di-esters to 1,2-diols. *Chemical Communications*, **2012**, 48, 1111-3 5.8 110
- 331 Concept of the H(δ⁺)...H(δ⁻) interaction. A low-temperature neutron diffraction study of cis-[IrH(OH)(PMe₃)₄]PF₆. *Journal of the Chemical Society Dalton Transactions*, **1990**, 1429-1432 110
- 330 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. *Journal of the American Chemical Society*, **2016**, 138, 6985-97 16.4 110

329	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	16.4	109
328	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	16.4	108
327	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	3.8	108
326	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, 9064-77	16.4	108
325	Metal-ligand cooperation in the trans addition of dihydrogen to a pincer Ir(I) complex: a DFT study. <i>Dalton Transactions</i> , 2009 , 9433-9	4.3	107
324	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, 4526-38	5.1	106
323	Catalytic coupling of nitriles with amines to selectively form imines under mild hydrogen pressure. <i>Chemical Communications</i> , 2012 , 48, 11853-5	5.8	106
322	Unexpected Isomerization of <i>cis</i> - into <i>trans</i> -Dihydride Complex. A Neutral Late Transition Metal Complex as a Hydride Donor. <i>Organometallics</i> , 1997 , 16, 3786-3793	3.8	106
321	Transfer of methylene groups promoted by metal complexation. <i>Nature</i> , 1994 , 370, 42-44	50.4	106
320	Low-Pressure Hydrogenation of Carbon Dioxide Catalyzed by an Iron Pincer Complex Exhibiting Noble Metal Activity. <i>Angewandte Chemie</i> , 2011 , 123, 10122-10126	3.6	105
319	Selective <i>ortho</i> C-H activation of haloarenes by an Ir(I) system. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4714-5	16.4	105
318	Manganese-Catalyzed α -Alkylation of Ketones, Esters, and Amides Using Alcohols. <i>ACS Catalysis</i> , 2018 , 8, 10300-10305	13.1	105
317	Aromatic vs aliphatic C-H bond activation by rhodium(I) as a function of agostic interactions: catalytic H/D exchange between olefins and methanol or water. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11041-50	16.4	104
316	The <i>cis</i> -alkyl and <i>cis</i> -acylrhodium and iridium hydrides. Model intermediates in homogeneous catalysis. <i>Accounts of Chemical Research</i> , 1984 , 17, 221-226	24.3	104
315	Selective N-Formylation of Amines with H ₂ and CO ₂ Catalyzed by Cobalt Pincer Complexes. <i>ACS Catalysis</i> , 2017 , 7, 2500-2504	13.1	103
314	Efficient Hydrogenation of Ketones Catalyzed by an Iron Pincer Complex. <i>Angewandte Chemie</i> , 2011 , 123, 2168-2172	3.6	102
313	Pincer β -Emilabile Effect. PCN Platinum(II) Complexes with Different Amine β -Arm Lengths. <i>Organometallics</i> , 2005 , 24, 1082-1090	3.8	102
312	Metallacarbenes from diazoalkanes: an experimental and computational study of the reaction mechanism. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6532-46	16.4	102

311	Reversible CO ₂ binding triggered by metal-ligand cooperation in a rhenium(I) PNP pincer-type complex and the reaction with dihydrogen. <i>Chemical Science</i> , 2014 , 5, 2043-2051	9.4	101
310	ortho C-H Activation of Haloarenes and Anisole by an Electron-Rich Iridium(I) Complex: Mechanism and Origin of Regio- and Chemoselectivity. An Experimental and Theoretical Study. <i>Organometallics</i> , 2006 , 25, 3190-3210	3.8	98
309	Selective hydrogenation of nitriles to primary amines catalyzed by a novel iron complex. <i>Chemical Communications</i> , 2016 , 52, 1812-5	5.8	97
308	Manganese Catalyzed Hydrogenation of Organic Carbonates to Methanol and Alcohols. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12076-12080	16.4	96
307	Ruthenium Pincer-Catalyzed Cross-Dehydrogenative Coupling of Primary Alcohols with Secondary Alcohols under Neutral Conditions. <i>Advanced Synthesis and Catalysis</i> , 2012 , 354, 2403-2406	5.6	96
306	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	16.4	95
305	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, 15727-31	4.8	95
304	Transition-metal-catalyzed cyclization of alkynoic acids to alkylidene lactones. <i>Journal of the American Chemical Society</i> , 1987 , 109, 6385-6388	16.4	95
303	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	16.4	90
302	A novel liquid organic hydrogen carrier system based on catalytic peptide formation and hydrogenation. <i>Nature Communications</i> , 2015 , 6, 6859	17.4	89
301	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, 17004-18	16.4	89
300	N-Substituted Hydrazones by Manganese-Catalyzed Coupling of Alcohols with Hydrazine: Borrowing Hydrogen and Acceptorless Dehydrogenation in One System. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2179-2182	16.4	88
299	Silanol-based pincer Pt(II) complexes: synthesis, structure, and unusual reactivity. <i>Inorganic Chemistry</i> , 2008 , 47, 7177-89	5.1	88
298	Synthesis and Reactivity of an Iridium(I) Acetylonyl PNP Complex. Experimental and Computational Study of Metal-ligand Cooperation in H-H and C-H Bond Activation via Reversible Ligand Dearomatization. <i>Organometallics</i> , 2010 , 29, 3817-3827	3.8	87
297	Catalytic selective cleavage of a strong C-C single bond by rhodium in solution. <i>Chemical Communications</i> , 1998 , 687-688	5.8	87
296	Highly Efficient Process for Production of Biofuel from Ethanol Catalyzed by Ruthenium Pincer Complexes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9077-80	16.4	87
295	Unprecedented iron-catalyzed selective hydrogenation of activated amides to amines and alcohols. <i>Chemical Communications</i> , 2016 , 52, 5285-8	5.8	84
294	Metal-ligand cooperation by aromatization-dearomatization as a tool in single bond activation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	82

293	C≡ bond activation by iridium(I). A unique process involving P≡ bond cleavage, P≡ bond formation and net retention of oxidation state. <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 258-259		80
292	Rechargeable Hydrogen Storage System Based on the Dehydrogenative Coupling of Ethylenediamine with Ethanol. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1061-4	16.4	80
291	Synthesis of Pyrazines and Quinoxalines via Acceptorless Dehydrogenative Coupling Routes Catalyzed by Manganese Pincer Complexes. <i>ACS Catalysis</i> , 2018 , 8, 7734-7741	13.1	79
290	Formation of Stable trans-Dihydride Ruthenium(II) and 16-Electron Ruthenium(0) Complexes Based on Phosphinite PONOP Pincer Ligands. Reactivity toward Water and Electrophiles. <i>Organometallics</i> , 2009 , 28, 4791-4806	3.8	79
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288	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, 12434-5	16.4	78
287	A new general method for the preparation of metal carbene complexes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 5372-3	16.4	78
286	Selective C≡ vs C≡ Bond Activation by Rhodium(I) PCP Pincer Complexes. A Computational Study. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7095-7104	16.4	77
285	Metal-Stabilized Methylene Arenium and Arenium Compounds: Synthesis, Structure, Reactivity, Charge Distribution, and Interconversion. <i>Organometallics</i> , 1999 , 18, 895-905	3.8	77
284	Highly Selective, Efficient Deoxygenative Hydrogenation of Amides Catalyzed by a Manganese Pincer Complex via Metal-Ligand Cooperation. <i>ACS Catalysis</i> , 2018 , 8, 8014-8019	13.1	76
283	Exclusive C≡ Activation and an Apparent H Elimination with a Rhodium Phosphinite Pincer Complex. <i>Organometallics</i> , 2006 , 25, 2292-2300	3.8	76
282	N≡ Activation by Rh(I) via Metal-Ligand Cooperation. <i>Organometallics</i> , 2012 , 31, 4083-4101	3.8	75
281	Iron(II) complexes based on electron-rich, bulky PNN- and PNP-type ligands. <i>Inorganica Chimica Acta</i> , 2006 , 359, 1955-1960	2.7	75
280	Highly efficient, general hydrogenation of aldehydes catalyzed by PNP iron pincer complexes. <i>Catalysis Science and Technology</i> , 2015 , 5, 822-826	5.5	74
279	Direct Synthesis of Pyrroles by Dehydrogenative Coupling of α-Aminoalcohols with Secondary Alcohols Catalyzed by Ruthenium Pincer Complexes. <i>Angewandte Chemie</i> , 2013 , 125, 4104-4107	3.6	74
278	Formylation of aryl chlorides catalysed by a palladium complex. <i>Journal of the Chemical Society Chemical Communications</i> , 1989 , 1816		74
277	Chelate effect on the structure and reactivity of electron-rich palladium complexes and its relevance to catalysis. <i>Organometallics</i> , 1993 , 12, 1655-1664	3.8	73
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