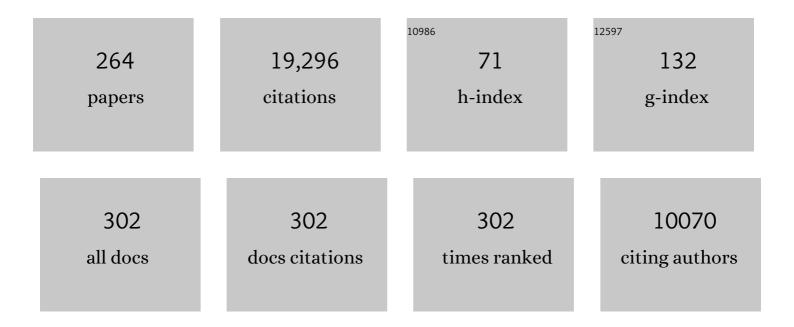
Robert H Morris

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Frontiers, Opportunities, and Challenges in Biochemical and Chemical Catalysis of CO ₂ Fixation. Chemical Reviews, 2013, 113, 6621-6658.	47.7	1,786
2	Mechanisms of the H2-hydrogenation and transfer hydrogenation of polar bonds catalyzed by ruthenium hydride complexes. Coordination Chemistry Reviews, 2004, 248, 2201-2237.	18.8	1,197
3	Asymmetric hydrogenation, transfer hydrogenation and hydrosilylation of ketones catalyzed by iron complexes. Chemical Society Reviews, 2009, 38, 2282.	38.1	700
4	Reactions of transition metal dihydrogen complexes. Coordination Chemistry Reviews, 1992, 121, 155-284.	18.8	693
5	Mechanism of the Hydrogenation of Ketones Catalyzed bytrans-Dihydrido(diamine)ruthenium(II) Complexesâ€. Journal of the American Chemical Society, 2002, 124, 15104-15118.	13.7	495
6	Amine(imine)diphosphine Iron Catalysts for Asymmetric Transfer Hydrogenation of Ketones and Imines. Science, 2013, 342, 1080-1083.	12.6	454
7	Exploiting Metal–Ligand Bifunctional Reactions in the Design of Iron Asymmetric Hydrogenation Catalysts. Accounts of Chemical Research, 2015, 48, 1494-1502.	15.6	376
8	Highly Efficient Catalyst Systems Using Iron Complexes with a Tetradentate PNNP Ligand for the Asymmetric Hydrogenation of Polar Bonds. Angewandte Chemie - International Edition, 2008, 47, 940-943.	13.8	324
9	Getting Down to Earth: The Renaissance of Catalysis with Abundant Metals. Accounts of Chemical Research, 2015, 48, 2495-2495.	15.6	311
10	Using natureâ \in ™s blueprint to expand catalysis with Earth-abundant metals. Science, 2020, 369, .	12.6	306
11	Fundamentals and applications of photocatalytic CO2 methanation. Nature Communications, 2019, 10, 3169.	12.8	304
12	Catalytic Cycle for the Asymmetric Hydrogenation of Prochiral Ketones to Chiral Alcohols:Â Direct Hydride and Proton Transfer from Chiral Catalyststrans-Ru(H)2(diphosphine)(diamine) to Ketones and Direct Addition of Dihydrogen to the Resulting Hydridoamido Complexes. Journal of the American Chemical Society, 2001, 123, 7473-7474.	13.7	284
13	Iron(II) Complexes Containing Unsymmetrical P–N–Pâ€2 Pincer Ligands for the Catalytic Asymmetric Hydrogenation of Ketones and Imines. Journal of the American Chemical Society, 2014, 136, 1367-1380.	13.7	278
14	Efficient Asymmetric Transfer Hydrogenation of Ketones Catalyzed by an Iron Complex Containing a Pâ°'Nâ°'P Tetradentate Ligand Formed by Template Synthesis. Journal of the American Chemical Society, 2009, 131, 1394-1395.	13.7	263
15	Switching On and Off a New Intramolecular Hydrogen-Hydrogen Interaction and the Heterolytic Splitting of Dihydrogen. Crystal and Molecular Structure of [Ir{H(.eta.1-SC5H4NH)}2(PCy3)2]BF4.cntdot.2.7CH2Cl2. Journal of the American Chemical Society, 1994, 116. 8356-8357.	13.7	259
16	An Acidity Scale for Phosphorus-Containing Compounds Including Metal Hydrides and Dihydrogen Complexes in THF:Â Toward the Unification of Acidity Scales. Journal of the American Chemical Society, 2000, 122, 9155-9171.	13.7	245
17	Dihydrogen with Frequency of Motion Near the1H Larmor Frequency. Solid-State Structures and Solution NMR Spectroscopy of Osmium Complexestrans-[Os(H··H)X(PPh2CH2CH2PPh2)2]+(X = Cl, Br). Journal of the American Chemical Society, 1996, 118, 5396-5407.	13.7	231
18	Iron Nanoparticles Catalyzing the Asymmetric Transfer Hydrogenation of Ketones. Journal of the American Chemical Society, 2012, 134, 5893-5899.	13.7	219

#	Article	IF	CITATIONS
19	Hydrogenation versus Transfer Hydrogenation of Ketones: Two Established Ruthenium Systems Catalyze Both. Chemistry - A European Journal, 2003, 9, 4954-4967.	3.3	206
20	RuHCl(diphosphine)(diamine):  Catalyst Precursors for the Stereoselective Hydrogenation of Ketones and Imines1. Organometallics, 2001, 20, 1047-1049.	2.3	197
21	BrÃ,nsted–Lowry Acid Strength of Metal Hydride and Dihydrogen Complexes. Chemical Reviews, 2016, 116, 8588-8654.	47.7	194
22	Catalytic Homogeneous Asymmetric Hydrogenation: Successes and Opportunities. Organometallics, 2019, 38, 47-65.	2.3	184
23	Preparation and spectroscopic properties of the .eta.2-dihydrogen complexes iron group triad. Journal of the American Chemical Society, 1991, 113, 4876-4887.	13.7	177
24	The Mechanism of Efficient Asymmetric Transfer Hydrogenation of Acetophenone Using an Iron(II) Complex Containing an (<i>S</i> , <i>S</i>)-Ph ₂ PCH ₂ CHâ•NCHPhCHPhNâ•CHCH ₂ PPh _{2Ligand: Partial Ligand Reduction Is the Key. Journal of the American Chemical Society, 2012, 134,})>13.7	174
25	12266-12280. A Succession of Isomers of Ruthenium Dihydride Complexes. Which One Is the Ketone Hydrogenation Catalyst?. Journal of the American Chemical Society, 2005, 127, 1870-1882.	13.7	169
26	Iron(II) Complexes for the Efficient Catalytic Asymmetric Transfer Hydrogenation of Ketones. Chemistry - A European Journal, 2009, 15, 5605-5610.	3.3	169
27	Low-Valent Ene–Amido Iron Complexes for the Asymmetric Transfer Hydrogenation of Acetophenone without Base. Journal of the American Chemical Society, 2011, 133, 9662-9665.	13.7	159
28	Effect of the Ligand and Metal on the pKa Values of the Dihydrogen Ligand in the Series of Complexes [M(H2)H(L)2]+, M = Fe, Ru, Os, Containing Isosteric Ditertiaryphosphine Ligands, L. Journal of the American Chemical Society, 1994, 116, 3375-3388.	13.7	153
29	Influence of Chloride versus Hydride on H-H Bonding and Acidity of the Trans Dihydrogen Ligand in the Complexes trans-[Ru(H2)X(PR2CH2CH2PR2)2]+, X = Cl, H, R = Ph, Et. Crystal Structure Determinations of [RuCl(dppe)2]PF6 and trans-[Ru(H2)Cl(dppe)2]PF6. Inorganic Chemistry, 1994, 33, 6278-6288.	4.0	144
30	Dihydrogen, dihydride and in between: NMR and structural properties of iron group complexes. Coordination Chemistry Reviews, 2008, 252, 2381-2394.	18.8	142
31	Two molecular hydrogen complexes: trans-[M(.eta.2-H2)(H)(PPh2CH2CH2PPh2)2]BF4 (M = Fe, Ru). The crystal structure determination of the iron complex. Journal of the American Chemical Society, 1985, 107, 5581-5582.	13.7	137
32	Ruthenium Dihydride RuH2(PPh3)2((R,R)-cyclohexyldiamine) and Ruthenium Monohydride RuHCl(PPh3)2((R,R)-cyclohexyldiamine):Â Active Catalyst and Catalyst Precursor for the Hydrogenation of Ketones and Imines. Organometallics, 2000, 19, 2655-2657.	2.3	136
33	.eta.2-Dihydrogen on the brink of homolytic cleavage: trans-[Os(H.cntdotcntdotcntdot.H)H(PEt2CH2CH2PEt2)2]+ has spectroscopic and chemical properties between those of the isoelectronic complexes trans-[OsH(PPh2CH2CH2PPh2)2(.eta.2-H2)]+ and ReH3(PPh2CH2CH2PPh2)2. Journal of the American Chemical Society. 1991. 113. 3027-3039.	13.7	134
34	Synthesis and Characterization of Iron(II) Complexes with Tetradentate Diiminodiphosphine or Diaminodiphosphine Ligands as Precatalysts for the Hydrogenation of Acetophenone. Inorganic Chemistry, 2009, 48, 735-743.	4.0	129
35	Estimation of the hydrogen-hydrogen distances of .eta.2-dihydrogen ligands in the complexes trans-[M(.eta.2-H2)(H)(PR2CH2CH2PR2)2]+ [M = iron, ruthenium, R = Ph, M = osmium, R = Et] by solution NMR methods. Journal of the American Chemical Society, 1988, 110, 7031-7036.	13.7	125
36	The hydrogenation of molecules with polar bonds catalyzed by a ruthenium(ii) complex bearing a chelating N-heterocyclic carbene with a primary amine donor. Chemical Communications, 2010, 46, 8240.	4.1	121

#	Article	IF	CITATIONS
37	Coordinatively Unsaturated Hydridoruthenium(II) Complexes of N-Heterocyclic Carbenes. Organometallics, 2004, 23, 86-94.	2.3	120
38	Hydrogenation of Benzonitrile to Benzylamine Catalyzed by Ruthenium Hydride Complexes with Pâ^'NHâ^'NHâ^'P Tetradentate Ligands:  Evidence for a Hydridicâ^'Protonic Outer Sphere Mechanism. Organometallics, 2007, 26, 5940-5949.	2.3	120
39	Wide range of pKa values of coordinated dihydrogen. Synthesis and properties of some .eta.2-dihydrogen and dihydride complexes of ruthenium. Journal of the American Chemical Society, 1991, 113, 875-883.	13.7	116
40	Asymmetric Transfer Hydrogenation of Ketimines Using Well-Defined Iron(II)-Based Precatalysts Containing a PNNP Ligand. Organic Letters, 2012, 14, 4638-4641.	4.6	116
41	Stereoelectronic Factors in Iron Catalysis: Synthesis and Characterization of Aryl-Substituted Iron(II) Carbonyl P–N–N–P Complexes and Their Use in the Asymmetric Transfer Hydrogenation of Ketones. Organometallics, 2011, 30, 4418-4431.	2.3	115
42	Single Crystal Neutron Diffraction Study of the Complex [Ru(H.cntdotcntdotcntdot.H)(C5Me5)(dppm)]BF4 which Contains an Elongated Dihydrogen Ligand. Journal of the American Chemical Society, 1994, 116, 7677-7681.	13.7	112
43	Single-crystal x-ray and neutron diffraction studies of an .eta.2-dihydrogen transition-metal complex: trans-[Fe(.eta.2-H2)(H)(PPh2CH2CH2PPh2)2]BPh4. Journal of the American Chemical Society, 1989, 111, 8823-8827.	13.7	108
44	Kinetic Hydrogen/Deuterium Effects in the Direct Hydrogenation of Ketones Catalyzed by a Well-Defined Ruthenium Diphosphine Diamine Complex. Journal of the American Chemical Society, 2009, 131, 11263-11269.	13.7	106
45	1995 Alcan Award Lecture New intermediates in the homolytic and heterolytic splitting of dihydrogen. Canadian Journal of Chemistry, 1996, 74, 1907-1915.	1.1	105
46	Estimating the Acidity of Transition Metal Hydride and Dihydrogen Complexes by Adding Ligand Acidity Constants. Journal of the American Chemical Society, 2014, 136, 1948-1959.	13.7	105
47	Synthesis and the kinetic and thermodynamic acidity of .eta.2-dihydrogen and dihydride complexes of the type [Ru(C5Me5)H2L2]+. X-ray crystal structure determination of the complex [Ru(C5Me5)(.eta.2-H2)(PPh2CH2PPh2)]BF4. Organometallics, 1992, 11, 161-171.	2.3	101
48	Synthesis of Ruthenium Hydride Complexes Containing beta-Aminophosphine Ligands Derived from Amino Acids and their use in the H2-Hydrogenation of Ketones and Imines. Advanced Synthesis and Catalysis, 2005, 347, 571-579.	4.3	98
49	Enantioselective Tandem Michael Addition/H2-Hydrogenation Catalyzed by Ruthenium Hydride Borohydride Complexes Containing β-aminophosphine Ligands1. Journal of the American Chemical Society, 2005, 127, 516-517.	13.7	98
50	Transmetalation of a Primary Amino-Functionalized N-Heterocyclic Carbene Ligand from an Axially Chiral Square-Planar Nickel(II) Complex to a Ruthenium(II) Precatalyst for the Transfer Hydrogenation of Ketones. Organometallics, 2009, 28, 6755-6761.	2.3	97
51	Effect of the Structure of the Diamine Backbone of Pâ^'Nâ^'Nâ^'P ligands in Iron(II) Complexes on Catalytic Activity in the Transfer Hydrogenation of Acetophenone. Inorganic Chemistry, 2010, 49, 11039-11044.	4.0	95
52	Rational development of iron catalysts for asymmetric transfer hydrogenation. Dalton Transactions, 2014, 43, 7650.	3.3	94
53	Iron Catalysts Containing Amine(imine)diphosphine P-NH-N-P Ligands Catalyze both the Asymmetric Hydrogenation and Asymmetric Transfer Hydrogenation of Ketones. Organometallics, 2014, 33, 5791-5801.	2.3	94
54	Applications of Ruthenium Hydride Borohydride Complexes Containing Phosphinite and Diamine Ligands to Asymmetric Catalytic Reactions. Organic Letters, 2005, 7, 1757-1759.	4.6	92

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55	A new type of intramolecular H â⊂ H â⊂ H interaction involving N–H â⊂ H(Ir)â⊂ H–N atoms. Crystal and molecular structure of [IrH(η1-SC5H4NH)2(η2-SC5H4N)(PCy3)]BF4·0.72CH2Cl2. Journal of the Chemical Society Chemical Communications, 1994, , 2201-2202.	2.0	90
56	Ester Hydrogenation Catalyzed by a Ruthenium(II) Complex Bearing an N-Heterocyclic Carbene Tethered with an "NH ₂ ―Group and a DFT Study of the Proposed Bifunctional Mechanism. ACS Catalysis, 2013, 3, 32-40.	11.2	89
57	Ligand additivity effects and periodic trends in the stability and acidity of octahedral .eta.2-dihydrogen complexes of d6 transition metal ions. Inorganic Chemistry, 1992, 31, 1471-1478.	4.0	86
58	Dihydridoamine and Hydridoamido Complexes of Ruthenium(II) with a Tetradentate Pâ^'Nâ^'P Donor Ligand. Organometallics, 2004, 23, 6239-6247.	2.3	86
59	A Mechanism Displaying Autocatalysis:  The Hydrogenation of Acetophenone Catalyzed by RuH(S-binap)(app) Where app Is the Amido Ligand Derived from 2-Amino-2-(2-pyridyl)propane. Organometallics, 2007, 26, 5987-5999.	2.3	86
60	Iron Complexes for the Catalytic Transfer Hydrogenation of Acetophenone: Steric and Electronic Effects Imposed by Alkyl Substituents at Phosphorus. Inorganic Chemistry, 2010, 49, 10057-10066.	4.0	86
61	Synthesis and Characterization of RuH2(H2)2(PiPr3)2 and Related Chemistry. Evidence for a Bis(dihydrogen) Structure. Organometallics, 2000, 19, 1652-1660.	2.3	83
62	Ketone Asymmetric Hydrogenation Catalyzed by P-NH-P′ Pincer Iron Catalysts: An Experimental and Computational Study. ACS Catalysis, 2017, 7, 316-326.	11.2	83
63	Factors Favoring Efficient Bifunctional Catalysis. Study of a Ruthenium(II) Hydrogenation Catalyst Containing an N-Heterocyclic Carbene with a Primary Amine Donor. Organometallics, 2012, 31, 2137-2151.	2.3	82
64	Asymmetric Hydrogenation of Ketones Catalyzed by Ruthenium Hydride Complexes of a Beta-aminophosphine Ligand Derived from Norephedrine. Organometallics, 2004, 23, 5524-5529.	2.3	80
65	Unsymmetrical Iron Pâ€NHâ€P′ Catalysts for the Asymmetric Pressure Hydrogenation of Aryl Ketones. Chemistry - A European Journal, 2017, 23, 7212-7216.	3.3	80
66	Mechanistic Investigation of the Hydrogenation of Ketones Catalyzed by a Ruthenium(II) Complex Featuring an N-Heterocyclic Carbene with a Tethered Primary Amine Donor: Evidence for an Inner Sphere Mechanism. Organometallics, 2011, 30, 1236-1252.	2.3	79
67	Inner-Sphere Activation, Outer-Sphere Catalysis: Theoretical Study on the Mechanism of Transfer Hydrogenation of Ketones Using Iron(II) PNNP Eneamido Complexes. Organometallics, 2012, 31, 7375-7385.	2.3	79
68	Asymmetric Transfer Hydrogenation of Ketones with Well-Defined Manganese(I) PNN and PNNP Complexes. Organometallics, 2018, 37, 4608-4618.	2.3	79
69	Monomeric and dimeric ruthenium(II) .eta.2-dihydrogen complexes with tricyclohexylphosphine co-ligands. Inorganic Chemistry, 1988, 27, 598-599.	4.0	78
70	Synthesis, Structure, and Properties of the Stable and Highly Acidic Dihydrogen Complextrans-[Os(η2-H2)(CH3CN)(dppe)2](BF4)2. Perspectives on the Influence of thetransLigand on the Chemistry of the Dihydrogen Ligand. Organometallics, 1996, 15, 2270-2278.	2.3	76
71	Dihydrogen Thiolate vs Hydride Thiol:Â Reactivity of the Series of Complexes MH(CO)(L)(PPh3)2(M = Ru,) Tj ETC [Os(CO)(μ2-Spy)(SpyH)(PPh3)]2[BF4]2. Organometallics, 1996, 15, 4423-4436.	Qq1 1 0.78 2.3	4314 rgBT /0 74
72	Dihydrogen vs. dihydride. Correlations between electrochemical or UV PES data and force constants for carbonyl or dinitrogen ligands in octahedral, d6 complexes and their use in explaining the behavior of the dihydrogen ligand. Inorganic Chemistry, 1987, 26, 2674-2683.	4.0	71

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73	Iridium(III) Complex Containing a Unique Bifurcated Hydrogen Bond Interaction Involving Irâ~ʾH··Ĥ(N)···Fâ~ʾB atoms. Crystal and Molecular Structure of [IrH(η1-SC5H4NH)(η2-SC5H4N)(PPh3)2](BF4)·0.5C6H6. Inorganic Chemistry, 1996, 35, 3001-3006.	4.0	71
74	Bifunctional Mechanism with Unconventional Intermediates for the Hydrogenation of Ketones Catalyzed by an Iridium(III) Complex Containing an N-Heterocyclic Carbene with a Primary Amine Donor. Organometallics, 2012, 31, 2152-2165.	2.3	70
75	Sulfur-bonded sulfoxide complexes of rhodium(III) and rhodium(I). Canadian Journal of Chemistry, 1980, 58, 399-408.	1.1	67
76	Details of the Mechanism of the Asymmetric Transfer Hydrogenation of Acetophenone Using the Amine(imine)diphosphine Iron Precatalyst: The Base Effect and The Enantiodetermining Step. ACS Catalysis, 2016, 6, 301-314.	11.2	66
77	Distinguishing homogeneous from nanoparticle asymmetric iron catalysis. Catalysis Science and Technology, 2014, 4, 3426-3438.	4.1	65
78	NMR properties of the complexes trans-[M(.eta.2-H2)(H)(PEt2CH2CH2PEt2)2]+ (M = Fe, Ru, Os). Intramolecular exchange of atoms between .eta.2-dihydrogen and hydride ligands. Journal of the American Chemical Society, 1987, 109, 3780-3782.	13.7	63
79	Synthesis of Iron P-N-P′ and P-NH-P′ Asymmetric Hydrogenation Catalysts. Organometallics, 2014, 33, 6452-6465.	2.3	62
80	Iron(II) Complexes Containing Chiral Unsymmetrical PNP′ Pincer Ligands: Synthesis and Application in Asymmetric Hydrogenations. Organometallics, 2016, 35, 3781-3787.	2.3	62
81	Use of the new ligand P(CH2CH2PCy2)3 in the synthesis of dihydrogen complexes of iron(II) and ruthenium(II). Organometallics, 1993, 12, 906-916.	2.3	61
82	Synthesis and use of an asymmetric transfer hydrogenation catalyst based on iron(II) for the synthesis of enantioenriched alcohols and amines. Nature Protocols, 2015, 10, 241-257.	12.0	61
83	From cis-dichloride complexes to dihydride complexes of the iron group metals via two successive .eta.2-dihydrogen intermediates. Inorganic Chemistry, 1989, 28, 4437-4438.	4.0	58
84	Effect of chelating ring size in catalytic ketone hydrogenation: facile synthesis of ruthenium(ii) precatalysts containing an N-heterocyclic carbene with a primary amine donor for ketone hydrogenation and a DFT study of mechanisms. Dalton Transactions, 2012, 41, 8797.	3.3	58
85	Evidence for Iron Nanoparticles Catalyzing the Rapid Dehydrogenation of Ammonia-Borane. ACS Catalysis, 2013, 3, 1092-1102.	11.2	57
86	Bonding interactions between three adjacent hydrogen ligands. Preparation and spectroscopic properties of the tantalum and niobium complexes [Ta(H)3(C5H5–nRn)2](R = SiMe3, n= 1 or 2) and [Nb(H3)(C5H5–nRn)2](n= 1, R = Me or SiMe3; n= 2, R = SiMe3). Journal of the Chemical Society Chemical Communications, 1988, .	2.0	56
87	New Polyhydride Anions and Proton-Hydride Hydrogen Bonding in Their Ion Pairs. X-ray Crystal Structure Determinations of Q[mer-Os(H)3(CO)(PiPr3)2], Q = [K(18-crown-6)] and Q = [K(1-aza-18-crown-6)]. Journal of the American Chemical Society, 1998, 120, 13138-13147.	13.7	56
88	Synthesis of the acidic dihydrogen complexes trans-[M(H2)(CN)L2]+ and trans-[M(H2)(CNH)L2]2+ where Mâ€=â€Fe, Ru, Os and Lâ€=â€dppm, dppe, dppp, depe, and dihydrogen substitution by the trifluoromethanesulfonate anion to give trans-[Ru(OTf )(CN)L2] or trans-[Ru(OTf )(CNH)L2]OTf â€. Journal of the Chemical Society Dalton Transactions, 1999, , 4475-4486.	1.1	55
89	Template Syntheses of Iron(II) Complexes Containing Chiral Pâ^'Nâ^'Nâ^'P and Pâ^'Nâ^'N Ligands. Inorganic Chemistry, 2008, 47, 6587-6589.	4.0	54
90	Acidic Dicationic Iron(II) Dihydrogen Complexes and Compounds Related by H2Substitution. Inorganic Chemistry, 1999, 38, 6060-6068.	4.0	52

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91	Protonation and H2 Heterolysis Reactions of Electrophilic (η5-C5R5)Ru(dfepe)(X) (R = H, Me; X = H, OTf) Complexes. Organometallics, 1998, 17, 5467-5476.	2.3	50
92	Reactions of elemental sulfur with tetrakis(triphenylphosphine)platinum(0). Formation of a complex containing very nucleophilic bridging sulfido ligands. Canadian Journal of Chemistry, 1983, 61, 2490-2492.	1.1	49
93	Synthesis and Structure of the Chiral Dihydrogen Complextrans-[Ru(η2-H2)H(R,Râ€~-Me-DuPHOS)2]PF6and the Dinitrogen Complextrans-[Ru(N2)H(R,Râ€~-Me-DuPHOS)2]PF6(R,Râ€~-Me-DuPHOS =) Tj ETQq1 1 0.784314 r	g₿҈෭а∕Оve	rlo d ø 10 Tf 5
94	Chemistry of Ruthenium(II) Monohydride and Dihydride Complexes Containing Pyridyl Donor Ligands Including Catalytic Ketone H2-Hydrogenation1. Inorganic Chemistry, 2005, 44, 2483-2492.	4.0	49
95	A modular design of ruthenium catalysts with diamine and BINOL-derived phosphinite ligands that are enantiomerically-matched for the effective asymmetric transfer hydrogenation of simple ketones. Chemical Communications, 2005, , 3050.	4.1	48
96	Stereochemical control of the exchange of hydrogen atoms between hydride and dihydrogen ligands in the complexes [M(.eta.2-H2)(H)(meso- or rac-tetraphos-1)]+, M = Fe, Os. Journal of the American Chemical Society, 1988, 110, 4056-4057.	13.7	47
97	Hydrogen/deuterium exchange reactions of an iridium dithiol complex. Inorganic Chemistry, 1993, 32, 2236-2237.	4.0	47
98	Reactions of an Amido Hydrido Complex of Osmium, OsH(NHCMe2CMe2NH2)(PPh3)2:Â HX Addition, HX Transfer, and Ketone H2Hydrogenation. Organometallics, 2005, 24, 479-481.	2.3	47
99	Symmetry Aspects of H ₂ Splitting by Five-Coordinate d ⁶ Ruthenium Amides, and Calculations on Acetophenone Hydrogenation, Ruthenium Alkoxide Formation, and Subsequent Hydrogenolysis in a Model <i>trans</i> -Ru(H) ₂ (diamine)(diphosphine) System. Inorganic Chemistry. 2012. 51. 10808-10818.	4.0	47
100	Probing the Effect of the Ligand X on the Properties and Catalytic Activity of the Complexes RuHX(diamine)(PPh3)2 (X = OPh, 4-SC6H4OCH3, OPPh2, OP(OEt)2, CCPh, NCCHCN, CH(COOMe)2; diamine =)	Ţj £ ℥QqŨ	0 @@gBT /Ov
101	Spectroscopic and DFT Study of Ferraaziridine Complexes Formed in the Transfer Hydrogenation of Acetophenone Catalyzed Using <i>trans</i> -[Fe(CO)(NCMe)(PPh ₂ C ₆ H ₄ CHâ•NCH ₂ â^) _{ Organometallics, 2012, 31, 3056-3064.}	>2 ²⁷ sub≻	î⁰<\$6p>4
102	Preparation of Rhenium(I) and Rhenium(II) Amine Dinitrogen Complexes and the Characterization of an Elongated Dihydrogen Species. Inorganic Chemistry, 1997, 36, 3553-3558.	4.0	44
103	Coherent D2 rotational tunneling and incoherent D2 dynamics in a solid non-classical RuD2 complex studied by 2H solid state NMR spectroscopy. Physical Chemistry Chemical Physics, 1999, 1, 4033-4041.	2.8	44
104	Effect of a Libration or Hopping Motion of thel·2-Dihydrogen Ligand on Longitudinal NuclearMagnetic Resonance Relaxation. Magnetic Resonance in Chemistry, 1997, 35, 243-250.	1.9	43
105	Competition between NH···HIr Intramolecular Protonâ^'Hydride Interactions and NH···FBF3-or NH···O Intermolecular Hydrogen Bonds Involving [IrH(2-thiazolidinethione)4(PCy3)](BF4)2and Related Complexes. Inorganic Chemistry, 1996, 35, 1549-1555.	4.0	42
106	Solvent transfer hydrogenation of αβ-unsaturated aldehydes to the unsaturated alcohols catalysed by hydridoiridium sulphoxide complexes. Journal of the Chemical Society Chemical Communications, 1978, , 929-930.	2.0	41
107	Organizing Chain Structures by Use of Protonâ~'Hydride Bonding. The Single-Crystal X-ray Diffraction Structures of [K(Q)][Os(H)5(PiPr3)2] and [K(Q)][Ir(H)4(PiPr3)2], Q = 18-Crown-6 and 1,10-Diaza-18-crown-6. Journal of the American Chemical Society, 1998, 120, 11826-11827.	13.7	41
108	Protonation Reactions oftrans-M(H)(SPh)(dppe)2(M = Ru, Os) To Give Thiol and Dihydrogen Complexes. X-ray Crystal Structure Determination oftrans-Ru(H)(SPh)(dppe)2andtrans-[Os(H)(O2)(dppe)2](O3SCF3). Inorganic Chemistry, 1998, 37, 1555-1562.	4.0	41

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109	Intermolecular Protonâ~'Hydride Bonding in Ion Pairs:  Synthesis and Structural Properties of [K(Q)][MH5(PiPr3)2] (M = Os, Ru; Q = 18-crown-6, 1-aza-18-crown-6, 1,10-diaza-18-crown-6). Organometallics, 2000, 19, 834-843.	2.3	41
110	Template Synthesis of Iron(II) Complexes Containing Tridentate Pâ^'Nâ^'S, Pâ^'Nâ^'P, Pâ^'Nâ^'N, and Tetradentate Pâ^'Nâ^'Nâ^'P Ligands. Inorganic Chemistry, 2010, 49, 1094-1102.	4.0	39
111	A dihydrogen complex, [Os(η2-H2)(CO)(quS)(PPh3)2]+, in equilibrium with its coordinated thiol tautomer (quS = quinoline-8-thiolate). Journal of the Chemical Society Chemical Communications, 1995, , 625-626.	2.0	38
112	Palladium(II) and Platinum(II) Complexes Featuring a Nitrile-Functionalized N-Heterocyclic Carbene Ligand. Organometallics, 2010, 29, 570-581.	2.3	38
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