Robert H Morris

List of Publications by Year in Descending Order

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66 16,600 257 123 g-index h-index citations papers 17,800 7.12 301 7.4 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
257	Tridentate NPN Ligands with a Central Secondary Phosphine Oxide Donor and their Corresponding Metal Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021 , 647, 1436-1441	1.3	О
256	Electrochemistry of transition metal hydride diphosphine complexes trans-MH(X)(PP)2 and trans-[MH(L)(PP)2]+, M = Fe, Ru, Os; PP = chelating phosphine ligand. <i>Inorganica Chimica Acta</i> , 2021 , 516, 120124	2.7	О
255	Enantioselective direct, base-free hydrogenation of ketones by a manganese amido complex of a homochiral, unsymmetrical PNP? ligand. <i>Catalysis Science and Technology</i> , 2021 , 11, 3153-3163	5.5	4
254	Group VII and VIII Hydrogenation Catalysts 2021 , 657-714		O
253	Trans Element-Hydrogen Bonds: A Distinctive Difference Between Transition Metals and Main Group Elements. <i>Inorganic Chemistry</i> , 2021 , 60, 13920-13928	5.1	O
252	Methane activation by a single copper center in particulate methane monooxygenase: A computational study. <i>Inorganica Chimica Acta</i> , 2020 , 503, 119441	2.7	2
251	Crystal structure of bis-[(,)-1,2-(bi-naph-thyl-phospho-nito)ethane]-dichlorido-iron(II) di-chloro-methane disolvate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2020 , 76, 1525-1527	0.7	
250	The Role of Protons and Hydrides in the Catalytic Hydrogenolysis of Guaiacol at the Ruthenium Nanoparticle Water Interface. ACS Catalysis, 2020, 10, 12310-12332	13.1	11
249	A One-Step Preparation of Tetradentate Ligands with Nitrogen and Phosphorus Donors by Reductive Amination and Representative Iron Complexes. <i>Inorganic Chemistry</i> , 2020 , 59, 11041-11053	5.1	О
248	Using nature's blueprint to expand catalysis with Earth-abundant metals. Science, 2020, 369,	33.3	124
247	Systematic Trends in the Electrochemical Properties of Transition Metal Hydride Complexes Discovered by Using the Ligand Acidity Constant Equation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17607-17629	16.4	3
246	Metal Hydride Vibrations: The Trans Effect of the Hydride. <i>Inorganic Chemistry</i> , 2019 , 58, 12467-12479	5.1	8
245	Enantioselective Hydrogenation of Activated Aryl Imines Catalyzed by an Iron(II) P-NH-P' Complex. Journal of Organic Chemistry, 2019 , 84, 12040-12049	4.2	23
244	Non-Contact Universal Sample Presentation for Room Temperature Macromolecular Crystallography Using Acoustic Levitation. <i>Scientific Reports</i> , 2019 , 9, 12431	4.9	8
243	PNN' & PNN' ligands via reductive amination with phosphine aldehydes: synthesis and base-metal coordination chemistry. <i>Dalton Transactions</i> , 2019 , 48, 2150-2159	4.3	6
242	Fundamentals and applications of photocatalytic CO methanation. <i>Nature Communications</i> , 2019 , 10, 3169	17.4	157
241	Phosphine-free ruthenium NCN-ligand complexes and their use in catalytic CO hydrogenation. <i>Dalton Transactions</i> , 2019 , 48, 16569-16577	4.3	3

240	Physical insights into mechanistic processes in organometallic chemistry: an introduction. <i>Faraday Discussions</i> , 2019 , 220, 10-27	3.6	3
239	Physical methods for mechanistic understanding: general discussion. <i>Faraday Discussions</i> , 2019 , 220, 144-178	3.6	
238	Mechanistic insight into organic and industrial transformations: general discussion. <i>Faraday Discussions</i> , 2019 , 220, 282-316	3.6	7
237	Computational and theoretical approaches for mechanistic understanding: general discussion. <i>Faraday Discussions</i> , 2019 , 220, 464-488	3.6	2
236	Catalytic Homogeneous Asymmetric Hydrogenation: Successes and Opportunities. <i>Organometallics</i> , 2019 , 38, 47-65	3.8	117
235	Ligand acidity constants as calculated by density functional theory for PF3 and N-Heterocyclic carbene ligands in hydride complexes of Iron(II). <i>Journal of Organometallic Chemistry</i> , 2019 , 880, 15-21	2.3	6
234	DFT methods applied to answer the question: how accurate is the ligand acidity constant method for estimating the pK of transition metal hydride complexes MHXL when X is varied?. <i>Dalton Transactions</i> , 2018 , 47, 2739-2747	4.3	10
233	Iridium and Rhodium Complexes Containing Enantiopure Primary Amine-Tethered N-Heterocyclic Carbenes: Synthesis, Characterization, Reactivity, and Catalytic Asymmetric Hydrogenation of Ketones. <i>Organometallics</i> , 2018 , 37, 491-504	3.8	18
232	Mechanisms of the H- and transfer hydrogenation of polar bonds catalyzed by iron group hydrides. <i>Dalton Transactions</i> , 2018 , 47, 10809-10826	4.3	32
231	Asymmetric Transfer Hydrogenation of Ketones with Well-Defined Manganese(I) PNN and PNNP Complexes. <i>Organometallics</i> , 2018 , 37, 4608-4618	3.8	49
230	Estimating the Wavenumber of Terminal Metal-Hydride Stretching Vibrations of Octahedral d Transition Metal Complexes. <i>Inorganic Chemistry</i> , 2018 , 57, 13809-13821	5.1	13
229	The effect of the counteranion on the loss of hydrogen from cationic ruthenium dihydrogen complexes in the solid state. <i>Polyhedron</i> , 2018 , 156, 342-349	2.7	1
228	Hydride Complexes of the Transition Metals 2018 , 1-12		1
227	A magnetic resonance disruption (MaRDi) technique for the detection of surface immobilised magnetic nanoparticles. <i>Analytical Methods</i> , 2017 , 9, 1681-1683	3.2	1
226	Unsymmetrical Iron P-NH-P' Catalysts for the Asymmetric Pressure Hydrogenation of Aryl Ketones. <i>Chemistry - A European Journal</i> , 2017 , 23, 7212-7216	4.8	64
225	Asymmetric Transfer Hydrogenation of Ketones Using New Iron(II) (P-NH-N-P?) Catalysts: Changing the Steric and Electronic Properties at Phosphorus P?. <i>Israel Journal of Chemistry</i> , 2017 , 57, 1204-1215	3.4	22
224	Half-Sandwich Ruthenium Catalyst Bearing an Enantiopure Primary Amine Tethered to an N-Heterocyclic Carbene for Ketone Hydrogenation. <i>ACS Catalysis</i> , 2017 , 7, 6827-6842	13.1	19
223	A capped trigonal pyramidal molybdenum hydrido complex and an unusually mild sulfur-carbon bond cleavage reaction. <i>Chemical Communications</i> , 2017 , 53, 11032-11035	5.8	1

222	Six coordinate capped trigonal bipyramidal complexes. <i>Coordination Chemistry Reviews</i> , 2017 , 350, 105-	-121562	5
221	An acoustic on-chip goniometer for room temperature macromolecular crystallography. <i>Lab on A Chip</i> , 2017 , 17, 4225-4230	7.2	1
220	From imine to amine: an unexpected left turn Fron (ii) PNNP' precatalysts for the asymmetric transfer hydrogenation of acetophenone. <i>Chemical Science</i> , 2017 , 8, 6531-6541	9.4	26
219	Ketone Asymmetric Hydrogenation Catalyzed by P-NH-P? Pincer Iron Catalysts: An Experimental and Computational Study. <i>ACS Catalysis</i> , 2017 , 7, 316-326	13.1	69
218	Bromidocarbonyl{(1S,2S)-N-[2-(dicyclohexylphosphanyl)ethylidenyl]-N?-[2-(diphenylphosphanyl)ethyl]-tetraphenylborate. <i>IUCrData</i> , 2017 , 2,	1,2-dip 0.7	henylethai 3
217	Iron Group Hydrides in Noyori Bifunctional Catalysis. <i>Chemical Record</i> , 2016 , 16, 2640-2654	6.6	26
216	Iron(II) Complexes Containing Chiral Unsymmetrical PNP? Pincer Ligands: Synthesis and Application in Asymmetric Hydrogenations. <i>Organometallics</i> , 2016 , 35, 3781-3787	3.8	56
215	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. <i>ACS Catalysis</i> , 2016 , 6, 301-314	13.1	54
214	Brfisted-Lowry Acid Strength of Metal Hydride and Dihydrogen Complexes. <i>Chemical Reviews</i> , 2016 , 116, 8588-654	68.1	151
213	Insights into metal-ligand hydrogen transfer: a square-planar ruthenate complex supported by a tetradentate amino-amido-diolefin ligand. <i>Chemical Communications</i> , 2016 , 52, 6138-41	5.8	4
212	Transition Metal Complexes of an (S,S)-1,2-Diphenylethylamine-Functionalized N-Heterocyclic Carbene: A New Member of the Asymmetric NHC Ligand Family. <i>Organometallics</i> , 2016 , 35, 1604-1612	3.8	19
211	Density Functional Theory Calculations Support the Additive Nature of Ligand Contributions to the pK of Iron Hydride Phosphine Carbonyl Complexes. <i>Inorganic Chemistry</i> , 2016 , 55, 9596-9601	5.1	10
2 10	Ligands for Iron-based Homogeneous Catalysts for the Asymmetric Hydrogenation of Ketones and Imines 2016 , 205-236		5
209	Aqueous biphasic iron-catalyzed asymmetric transfer hydrogenation of aromatic ketones. <i>RSC Advances</i> , 2016 , 6, 88580-88587	3.7	22
208	Exploiting metal-ligand bifunctional reactions in the design of iron asymmetric hydrogenation catalysts. <i>Accounts of Chemical Research</i> , 2015 , 48, 1494-502	24.3	318
207	An Unsymmetrical Iron Catalyst for the Asymmetric Transfer Hydrogenation⊡of Ketones. <i>Synthesis</i> , 2015 , 47, 1775-1779	2.9	30
206	Template Effect and Ligand Substitution Methods for the Synthesis of Iron Catalysts: A Two-Part Experiment for Inorganic Chemistry. <i>Journal of Chemical Education</i> , 2015 , 92, 378-381	2.4	5
205	Exploring the decomposition pathways of iron asymmetric transfer hydrogenation catalysts. <i>Dalton Transactions</i> , 2015 , 44, 12119-27	4.3	17

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204	Synthesis and use of an asymmetric transfer hydrogenation catalyst based on iron(II) for the synthesis of enantioenriched alcohols and amines. <i>Nature Protocols</i> , 2015 , 10, 241-57	18.8	55
203	Iron(II) complexes containing unsymmetrical P-N-P' pincer ligands for the catalytic asymmetric hydrogenation of ketones and imines. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1367-80	16.4	241
202	Estimating the acidity of transition metal hydride and dihydrogen complexes by adding ligand acidity constants. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1948-59	16.4	88
201	Alcohol-assisted base-free hydrogenation of acetophenone catalyzed by OsH(NHCMe2CMe2NH2)(PPh3)2. <i>Canadian Journal of Chemistry</i> , 2014 , 92, 731-738	0.9	7
200	A sulfur mimic of 1,1-bis(diphenylphosphino)methane: a new ligand opens up. <i>Chemical Communications</i> , 2014 , 50, 4707-10	5.8	9
199	Synthesis of Iron P-N-P? and P-NH-P? Asymmetric Hydrogenation Catalysts. <i>Organometallics</i> , 2014 , 33, 6452-6465	3.8	55
198	Rational development of iron catalysts for asymmetric transfer hydrogenation. <i>Dalton Transactions</i> , 2014 , 43, 7650-67	4.3	86
197	Ligand-based molecular recognition and dioxygen splitting: an endo epoxide ending. <i>Dalton Transactions</i> , 2014 , 43, 4137-45	4.3	3
196	Distinguishing homogeneous from nanoparticle asymmetric iron catalysis. <i>Catalysis Science and Technology</i> , 2014 , 4, 3426-3438	5.5	59
195	Reactivity of ruthenium phosphido species generated through the deprotonation of a tripodal phosphine ligand and implications for hydrophosphination. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4746-60	16.4	29
194	Intramolecular C-H/O-H bond cleavage with water and alcohol using a phosphine-free ruthenium carbene NCN pincer complex. <i>Chemistry - A European Journal</i> , 2014 , 20, 16960-8	4.8	17
193	Iron Catalysts Containing Amine(imine)diphosphine P-NH-N-P Ligands Catalyze both the Asymmetric Hydrogenation and Asymmetric Transfer Hydrogenation of Ketones. <i>Organometallics</i> , 2014 , 33, 5791-5801	3.8	77
192	{N,N'-Bis-[2-(di-phenyl-phosphan-yl)ethan-1-yl-idene]ethyl-enedi-amine}bromido-(p-toluene-sulfonyl-misocyanide)iron(II) tetra-phenyl-borate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014 , 70, m144	ethyl	2
191	Primary Amine Functionalized N-Heterocyclic Carbene Complexes of Iridium: Synthesis, Structure, and Catalysis. <i>Organometallics</i> , 2013 , 32, 3808-3818	3.8	33
190	Oxidative Kinetic Resolution of Aromatic Alcohols Using Iron Nanoparticles. <i>Topics in Catalysis</i> , 2013 , 56, 1199-1207	2.3	4
189	Structural properties of trans hydrido-hydroxo M(H)(OH)(NH2CMe2CMe2NH2)(PPh3)2 (M = Ru, Os) complexes and their proton exchange behaviour with water in solution. <i>Dalton Transactions</i> , 2013 , 42, 10214-20	4.3	14
188	Amine(imine)diphosphine iron catalysts for asymmetric transfer hydrogenation of ketones and imines. <i>Science</i> , 2013 , 342, 1080-3	33.3	388
187	Evidence for Iron Nanoparticles Catalyzing the Rapid Dehydrogenation of Ammonia-Borane. <i>ACS Catalysis</i> , 2013 , 3, 1092-1102	13.1	51

186	Synthesis of new late transition metal P,P-, P,N-, and P,O- complexes using phosphonium dimers as convenient ligand precursors. <i>Inorganic Chemistry</i> , 2013 , 52, 5448-56	5.1	12
185	Frontiers, opportunities, and challenges in biochemical and chemical catalysis of CO2 fixation. <i>Chemical Reviews</i> , 2013 , 113, 6621-58	68.1	1415
184	Ester Hydrogenation Catalyzed by a Ruthenium(II) Complex Bearing an N-Heterocyclic Carbene Tethered with an NH2IGroup and a DFT Study of the Proposed Bifunctional Mechanism. <i>ACS Catalysis</i> , 2013 , 3, 32-40	13.1	80
183	The mechanism of efficient asymmetric transfer hydrogenation of acetophenone using an iron(II) complex containing an (S,S)-Ph2PCH2CH?NCHPhCHPhN?CHCH2PPh2 ligand: partial ligand reduction is the key. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12266-80	16.4	160
182	Synthesis, characterization, and activity of yttrium(III) nitrate complexes bearing tripodal phosphine oxide and mixed phosphine-phosphine oxide ligands. <i>Inorganic Chemistry</i> , 2012 , 51, 9322-32	5.1	24
181	Factors Favoring Efficient Bifunctional Catalysis. Study of a Ruthenium(II) Hydrogenation Catalyst Containing an N-Heterocyclic Carbene with a Primary Amine Donor. <i>Organometallics</i> , 2012 , 31, 2137-215	5₃ ^{3.8}	76
180	Inner-Sphere Activation, Outer-Sphere Catalysis: Theoretical Study on the Mechanism of Transfer Hydrogenation of Ketones Using Iron(II) PNNP Eneamido Complexes. <i>Organometallics</i> , 2012 , 31, 7375-7	385	74
179	Flexible Syntheses of Tripodal Phosphine Ligands 1,1,2-Tris(diarylphosphino)ethane and Their Ruthenium 🖫-C5Me5 Complexes. <i>Organometallics</i> , 2012 , 31, 6589-6594	3.8	4
178	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. <i>Organometallics</i> , 2012 , 31, 2152-2165	3.8	68
177	Asymmetric transfer hydrogenation of ketimines using well-defined iron(II)-based precatalysts containing a PNNP ligand. <i>Organic Letters</i> , 2012 , 14, 4638-41	6.2	108
176	Symmetry aspects of H2 splitting by five-coordinate d6 ruthenium amides, and calculations on acetophenone hydrogenation, ruthenium alkoxide formation, and subsequent hydrogenolysis in a model trans-Ru(H)2(diamine)(diphosphine) system. <i>Inorganic Chemistry</i> , 2012 , 51, 10808-18	5.1	43
175	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. <i>Dalton Transactions</i> , 2012 , 41, 8797-808	4.3	55
174	Iron nanoparticles catalyzing the asymmetric transfer hydrogenation of ketones. <i>Journal of the American Chemical Society</i> , 2012 , 134, 5893-9	16.4	197
173	Spectroscopic and DFT Study of Ferraaziridine Complexes Formed in the Transfer Hydrogenation of Acetophenone Catalyzed Using trans-[Fe(CO)(NCMe)(PPh2C6H4CH?NCH2J2-4P,N,N,P](BF4)2. <i>Organometallics</i> , 2012 , 31, 3056-3064	3.8	43
172	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. <i>Organometallics</i> , 2011 , 30, 1236-1252	3.8	76
171	Stereoelectronic Factors in Iron Catalysis: Synthesis and Characterization of Aryl-Substituted Iron(II) Carbonyl PNNP Complexes and Their Use in the Asymmetric Transfer Hydrogenation of Ketones. Organometallics, 2011, 30, 4418-4431	3.8	108
170	Low-valent ene-amido iron complexes for the asymmetric transfer hydrogenation of acetophenone without base. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9662-5	16.4	147
169	From amine to ruthenaziridine to azaallyl: unusual transformation of di-(2-pyridylmethyl)amine on ruthenium. <i>Dalton Transactions</i> , 2011 , 40, 10603-8	4.3	6

168	(IPenta-methyl-cyclo-penta-dien-yl)(Itoluene)-ruthenium(II) hexa-fluorido-phosphate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, m1264		1
167	Palladium(II) and Platinum(II) Complexes Featuring a Nitrile-Functionalized N-Heterocyclic Carbene Ligand. <i>Organometallics</i> , 2010 , 29, 570-581	3.8	38
166	Template synthesis of iron(II) complexes containing tridentate P-N-S, P-N-P, P-N-N, and tetradentate P-N-N-P ligands. <i>Inorganic Chemistry</i> , 2010 , 49, 1094-102	5.1	38
165	Iron complexes for the catalytic transfer hydrogenation of acetophenone: steric and electronic effects imposed by alkyl substituents at phosphorus. <i>Inorganic Chemistry</i> , 2010 , 49, 10057-66	5.1	81
164	Effect of the structure of the diamine backbone of P-N-N-P ligands in iron(II) complexes on catalytic activity in the transfer hydrogenation of acetophenone. <i>Inorganic Chemistry</i> , 2010 , 49, 11039-44	5.1	87
163	The hydrogenation of molecules with polar bonds catalyzed by a ruthenium(II) complex bearing a chelating N-heterocyclic carbene with a primary amine donor. <i>Chemical Communications</i> , 2010 , 46, 8240	- 5 .8	114
162	New cyclic phosphonium salts derived from the reaction of phosphine-aldehydes with acid. <i>Journal of Organometallic Chemistry</i> , 2010 , 695, 1824-1830	2.3	20
161	A DFT investigation into the origin of regioselectivity in palladium-catalyzed allylic amination. <i>Canadian Journal of Chemistry</i> , 2009 , 87, 54-62	0.9	16
160	Iron(II) complexes for the efficient catalytic asymmetric transfer hydrogenation of ketones. <i>Chemistry - A European Journal</i> , 2009 , 15, 5605-10	4.8	161
159	Asymmetric hydrogenation, transfer hydrogenation and hydrosilylation of ketones catalyzed by iron complexes. <i>Chemical Society Reviews</i> , 2009 , 38, 2282-91	58.5	638
158	Kinetic hydrogen/deuterium effects in the direct hydrogenation of ketones catalyzed by a well-defined ruthenium diphosphine diamine complex. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11263-9	16.4	103
157	Synthesis and Characterization of Nitrile-Functionalized N-Heterocyclic Carbenes and Their Complexes of Silver(I) and Rhodium(I). <i>Organometallics</i> , 2009 , 28, 853-862	3.8	20
156	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. <i>Organometallics</i> , 2009 , 28, 6755-6761	3.8	92
155	Efficient asymmetric transfer hydrogenation of ketones catalyzed by an iron complex containing a P-N-N-P tetradentate ligand formed by template synthesis. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1394-5	16.4	244
154	Synthesis and characterization of iron(II) complexes with tetradentate diiminodiphosphine or diaminodiphosphine ligands as precatalysts for the hydrogenation of acetophenone. <i>Inorganic Chemistry</i> , 2009 , 48, 735-43	5.1	124
153	Template syntheses of iron(II) complexes containing chiral P-N-N-P and P-N-N ligands. <i>Inorganic Chemistry</i> , 2008 , 47, 6587-9	5.1	51
152	Use of an Iodide-Modified Merrifield Resin in the Synthesis of Ruthenium Hydride Complexes. The Structure of RuHI((R)-binap)(PPh3). <i>Organometallics</i> , 2008 , 27, 503-508	3.8	4
151	Highly efficient catalyst systems using iron complexes with a tetradentate PNNP ligand for the asymmetric hydrogenation of polar bonds. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 940-3	16.4	296

150	Dihydrogen, dihydride and in between: NMR and structural properties of iron group complexes. <i>Coordination Chemistry Reviews</i> , 2008 , 252, 2381-2394	23.2	127
149	Ruthenium hydrogenation catalysts with PNNP ligands derived from 1,3-diaminopropane and the formation of a 时iminate complex by a base-induced isomerization. <i>Inorganica Chimica Acta</i> , 2008 , 361, 3149-3158	2.7	24
148	Hydrogenation of Benzonitrile to Benzylamine Catalyzed by Ruthenium Hydride Complexes with PNHNHP Tetradentate Ligands: Evidence for a HydridicProtonic Outer Sphere Mechanism. <i>Organometallics</i> , 2007 , 26, 5940-5949	3.8	115
147	Properties of the polyhydride anions [WH5(PMe2Ph)3]- and [ReH4(PMePh2)3]- and periodic trends in the acidity of polyhydride complexes. <i>Inorganic Chemistry</i> , 2007 , 46, 4392-401	5.1	15
146	Novel hydrido-ruthenium(II) complexes with histidine derivatives and their application in the hydrogenation of ketones. <i>Dalton Transactions</i> , 2007 , 2536-41	4.3	11
145	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. <i>Organometallics</i> , 2007 , 26, 5987-5999	3.8	79
144	An acidity scale of tetrafluoroborate salts of phosphonium and iron hydride compounds in [D2]dichloromethane. <i>Chemistry - A European Journal</i> , 2007 , 13, 3796-803	4.8	27
143	Pentahydridobis(Tricyclohexylphosphine)-Iridium(V) and Trihydridotris(Triphenylphos-phine)Iridium(III). <i>Inorganic Syntheses</i> , 2007 , 303-308		4
142	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 = 2,3-Diamino-2,3-dimethylbutane, (R,R)-1,2-Diaminocyclohexane). Organometallics, 2006,	3.8	43
141	25, 5477-5486 An acidity scale of phosphonium tetraphenylborate salts and ruthenium dihydrogen complexes in dichloromethane. <i>Canadian Journal of Chemistry</i> , 2006 , 84, 164-175	0.9	20
140	Ketone H2-hydrogenation catalysts: Ruthenium complexes with the headphone-like ligand bis(phosphaadamantyl)propane. <i>Inorganica Chimica Acta</i> , 2006 , 359, 2864-2869	2.7	17
139	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. <i>Chemical Communications</i> , 2005 , 3050-2	5.8	41
138	Enantioselective tandem michael addition/H2-hydrogenation catalyzed by ruthenium hydride borohydride complexes containing beta-aminophosphine ligands. <i>Journal of the American Chemical Society</i> , 2005 , 127, 516-7	16.4	92
137	Reactions of an Amido Hydrido Complex of Osmium, OsH(NHCMe2CMe2NH2)(PPh3)2: HX Addition, HX Transfer, and Ketone H2Hydrogenation. <i>Organometallics</i> , 2005 , 24, 479-481	3.8	45
136	Applications of ruthenium hydride borohydride complexes containing phosphinite and diamine ligands to asymmetric catalytic reactions. <i>Organic Letters</i> , 2005 , 7, 1757-9	6.2	89
135	Chemistry of ruthenium(II) monohydride and dihydride complexes containing pyridyl donor ligands including catalytic ketone H2-hydrogenation. <i>Inorganic Chemistry</i> , 2005 , 44, 2483-92	5.1	47
134	A succession of isomers of ruthenium dihydride complexes. Which one is the ketone hydrogenation catalyst?. <i>Journal of the American Chemical Society</i> , 2005 , 127, 1870-82	16.4	158
133	Synthesis of Ruthenium Hydride Complexes Containing beta-Aminophosphine Ligands Derived from Amino Acids and their use in the H2-Hydrogenation of Ketones and Imines. <i>Advanced Synthesis and Catalysis</i> 2005 , 347, 571-579	5.6	87

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13	Mechanisms of the H2-hydrogenation and transfer hydrogenation of polar bonds catalyzed by ruthenium hydride complexes. <i>Coordination Chemistry Reviews</i> , 2004 , 248, 2201-2237	23.2	1121
13	Coordinatively Unsaturated Hydridoruthenium(II) Complexes of N-Heterocyclic Carbenes. Organometallics, 2004 , 23, 86-94	3.8	115
13	Asymmetric Hydrogenation of Ketones Catalyzed by Ruthenium Hydride Complexes of a Beta-aminophosphine Ligand Derived from Norephedrine. <i>Organometallics</i> , 2004 , 23, 5524-5529	3.8	76
12	Dihydridoamine and Hydridoamido Complexes of Ruthenium(II) with a Tetradentate PNNP Donor Ligand. <i>Organometallics</i> , 2004 , 23, 6239-6247	3.8	83
12	Cyclometalated Tridentate C-N-N Ligands with an Amine or Amido Donor in Platinum(II) and Palladium(II) Complexes and a Novel Potassium Alkoxide Aggregate. <i>Organometallics</i> , 2004 , 23, 4406-4	433	34
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27	Spectroscopic and chemical properties of nitrogen-15-enriched molybdenum dinitrogen complexes trans,mer-Mo(N2)2(L)(PMePh2)3. <i>Inorganic Chemistry</i> , 1986 , 25, 3926-3932	5.1	28
26	The photoelectron spectrum of MoWCl4(PMe3)4: the position of the valence Eonization in quadruply bonded compounds. <i>Journal of the Chemical Society Chemical Communications</i> , 1986 , 898-899)	5
25	The influence of the steric properties of the ligands PR2Ph and L on the formation and properties of the complexes Mo([6-PhPR2)(L)(PPh2CH2CH2PPh2), R = Et, L = PPhEt2 and R = Ph, L = PPh3, PR?3, CO, CNR, N2, H2. <i>Journal of Organometallic Chemistry</i> , 1985 , 284, 243-255	2.3	5

24	trans-Bis(dinitrogen)tetrakis(methyldiphenylphosphine)molybdenum(0) benzene solvate, [Mo(N2)2{P(CH3)(C6H5)2}4].1.5(C6H6). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1985 , 41, 1017-1019		2
23	Two molecular hydrogen complexes: trans-[M(.eta.2-H2)(H)(PPh2CH2CH2PPh2)2]BF4 (M = Fe, Ru). The crystal structure determination of the iron complex. <i>Journal of the American Chemical Society</i> , 1985 , 107, 5581-5582	16.4	114
22	Benzene carbon-hydrogen bond activation using Ru(C6Me6)[PH(C6H11(2]H2. <i>Journal of Organometallic Chemistry</i> , 1984 , 260, C47-C51	2.3	19
21	Complexes [Mo(N2)(PPh3)2]2 and [Mo(CNR)(PPh3)2]2 (R = n-butyl and tert-butyl) containing bridging .eta.1,.eta.6-triphenylphosphine ligands. The molecular structure of [Mo(.mueta.1,.eta.6-PPh3)(PPh3)(CN(CH2)3Me)]2. <i>Organometallics</i> , 1984 , 3, 1009-1014	3.8	14
20	Use of .eta.6-arylphosphine complexes of molybdenum(0) for the synthesis of complexes containing molybdenum-molybdenum and molybdenum-tungsten quadruple bonds. <i>Journal of the American Chemical Society</i> , 1984 , 106, 7978-7979	16.4	12
19	Synthesis and substitution reactions of Mo(.eta.6-PhPMePh)(PMePh2)3. The crystal and molecular structure of Mo(.eta.6-PhPMePh)(CNCMe3)(PMePh2)2. <i>Organometallics</i> , 1984 , 3, 247-255	3.8	17
18	Reversible binding of dinitrogen and dihydrogen by (.eta.6-phenylmethylphenylphosphine)tris(methyldiphenylphosphine)molybdenum (Mo(.eta.6-PhPMPPh)2)3): use of [9-BBN]2 as a phosphine sponge reagent. <i>Inorganic</i>	5.1	12
17	A sulfur-ligated molybdenum complex that reduces dinitrogen to ammonia. The crystal and molecular structure of the dinitrogen-molybdenum complex trans-Mo(N2)2(PMePh2)2(PPh2CH2CH2SMe). Journal of the American Chemical Society, 1984, 106, 3683	16.4 -3684	27
16	Synthesis of molybdenum-rhodium bimetallic complexes using, as ligands, electron-rich molybdenum(0) complexes containing an 🖟-methyldiphenylphosphine ligand. <i>Journal of Organometallic Chemistry</i> , 1983 , 255, 221-230	2.3	8
15	Formation of L6-pyridine complexes of molybdenum (0) by a Leo Learrangement in Mo(N2)2(NC5H4-4-R)(PMePh2)3, RH, Me. <i>Journal of the Chemical Society Chemical Communications</i> , 1983 , 909-910		18
14	Reactions of elemental sulfur with tetrakis(triphenylphosphine)platinum(0). Formation of a complex containing very nucleophilic bridging sulfido ligands. <i>Canadian Journal of Chemistry</i> , 1983 , 61, 2490-2492	0.9	45
13	Photochemical synthesis and reactions of FeH(C6H4PPhCH2CH2PPh2)(PPh2PCH2CH2PPh2). <i>Inorganic Chemistry</i> , 1983 , 22, 6-9	5.1	26
12	Dinitrogen versus 🖟-arene coordination in methyldiphenylphosphine complexes of molybdenum(0). <i>Journal of Organometallic Chemistry</i> , 1982 , 238, C24-C26	2.3	9
11	Photoinduced elimination of hydrogen from [Pt2H3(dppm)2]PF6 and [Pt2H2Cl(dppm)2]PF6. Journal of the American Chemical Society, 1981 , 103, 7337-7339	16.4	7
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8	Sulfur-bonded sulfoxide complexes of rhodium(III) and rhodium(I). <i>Canadian Journal of Chemistry</i> , 1980 , 58, 399-408	0.9	59
7	Vibrational analysis of oxygen-bonded sulfoxide complexes. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1978 , 34, 577-582		22

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5	Radiation chemistry of acetylene at high intensity: the initial product distributions. <i>Canadian Journal of Chemistry</i> , 1977 , 55, 3288-3293	0.9	5
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3	Ruthenium and Osmium45-70		2
3	Ruthenium and Osmium45-70 Transition-Metal Complexes as Models of the Active Sites of Hydrogenases905-926		2