Robert H Morris

List of Publications by Year
in descending order

264 papers	19,296 citations	10986 71 h-index	12597 132 g-index
302 all docs	302 docs citations	302 times ranked	10070 citing authors

#	Article	IF	Citations
1	Osmium(II)-Induced Rearrangement of Allenols for Metallafuran Complexes. Organometallics, 2022, 41, 1931-1941.	2.3	6
2	Electrochemistry of transition metal hydride diphosphine complexes trans-MH(X)(PP)2 and trans-[MH(L)(PP)2]+, MÂ=ÂFe, Ru, Os; PPÂ=Âchelating phosphine ligand. Inorganica Chimica Acta, 2021, 516, 120124.	2.4	3
3	Enantioselective direct, base-free hydrogenation of ketones by a manganese amido complex of a homochiral, unsymmetrical Pâ€"Nâ€"Pâ€² ligand. Catalysis Science and Technology, 2021, 11, 3153-3163.	4.1	23
4	Group VII and VIII Hydrogenation Catalysts. , 2021, , 657-714.		1
5	Focusing on transition metal hydride complexes. Canadian Journal of Chemistry, 2021, 99, v-vii.	1.1	0
6	Tridentate NPN Ligands with a Central Secondary Phosphine Oxide Donor and their Corresponding Metal Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 1436-1441.	1.2	1
7	Trans Element-Hydrogen Bonds: A Distinctive Difference Between Transition Metals and Main Group Elements. Inorganic Chemistry, 2021, 60, 13920-13928.	4.0	1
8	Mechanistic Similarities and Differences for Hydrogenation of Aromatic Heterocycles and Aliphatic Carbonyls on Sulfided Ru Nanoparticles. ACS Catalysis, 2021, 11, 12585-12608.	11.2	3
9	The Role of Protons and Hydrides in the Catalytic Hydrogenolysis of Guaiacol at the Ruthenium Nanoparticleâ€"Water Interface. ACS Catalysis, 2020, 10, 12310-12332.	11.2	29
10	A One-Step Preparation of Tetradentate Ligands with Nitrogen and Phosphorus Donors by Reductive Amination and Representative Iron Complexes. Inorganic Chemistry, 2020, 59, 11041-11053.	4.0	3
11	Using natureâ€™s blueprint to expand catalysis with Earth-abundant metals. Science, 2020, 369, .	12.6	306
12	Systematic Trends in the Electrochemical Properties of Transition Metal Hydride Complexes Discovered by Using the Ligand Acidity Constant Equation. Journal of the American Chemical Society, 2020, 142, 17607-17629.	13.7	10
13	Methane activation by a single copper center in particulate methane monooxygenase: A computational study. Inorganica Chimica Acta, 2020, 503, 119441.	2.4	6
14	Crystal structure of bis[(<i>R</i>,<i>R</i>)-1,2-(binaphthylphosphonito)ethane]dichloridoiron(II) dichloromethane disolvate. Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 1525-1527.	0.5	1
15	Fundamentals and applications of photocatalytic CO2 methanation. Nature Communications, 2019, 10, 3169.	12.8	304
16	Metal Hydride Vibrations: The Trans Effect of the Hydride. Inorganic Chemistry, 2019, 58, 12467-12479.	4.0	10
17	Enantioselective Hydrogenation of Activated Aryl Imines Catalyzed by an Iron(II) P-NH-Pâ€² Complex. Journal of Organic Chemistry, 2019, 84, 12040-12049.	3.2	35
18	Non-Contact Universal Sample Presentation for Room Temperature Macromolecular Crystallography Using Acoustic Levitation. Scientific Reports, 2019, 9, 12431.	3.3	17

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19	PNNâ€² & P₂NNâ€² ligands <i>via</i> reductive amination with phosphine aldehydes: synthesis and base-metal coordination chemistry. Dalton Transactions, 2019, 48, 2150-2159.	3.3	12
20	Phosphine-free ruthenium NCN-ligand complexes and their use in catalytic CO₂ hydrogenation. Dalton Transactions, 2019, 48, 16569-16577.	3.3	7
21	Physical insights into mechanistic processes in organometallic chemistry: an introduction. Faraday Discussions, 2019, 220, 10-27.	3.2	4
22	Physical methods for mechanistic understanding: general discussion. Faraday Discussions, 2019, 220, 144-178.	3.2	0
23	Mechanistic insight into organic and industrial transformations: general discussion. Faraday Discussions, 2019, 220, 282-316.	3.2	8
24	Computational and theoretical approaches for mechanistic understanding: general discussion. Faraday Discussions, 2019, 220, 464-488.	3.2	3
25	Catalytic Homogeneous Asymmetric Hydrogenation: Successes and Opportunities. Organometallics, 2019, 38, 47-65.	2.3	184
26	Ligand acidity constants as calculated by density functional theory for PF3 and N-Heterocyclic carbene ligands in hydride complexes of Iron(II). Journal of Organometallic Chemistry, 2019, 880, 15-21.	1.8	8
27	DFT methods applied to answer the question: how accurate is the ligand acidity constant method for estimating the p<i>K</i>_a of transition metal hydride complexes MHXL₄ when X is varied?. Dalton Transactions, 2018, 47, 2739-2747.	3.3	11
28	Iridium and Rhodium Complexes Containing Enantiopure Primary Amine-Tethered N-Heterocyclic Carbenes: Synthesis, Characterization, Reactivity, and Catalytic Asymmetric Hydrogenation of Ketones. Organometallics, 2018, 37, 491-504.	2.3	22
29	Asymmetric Transfer Hydrogenation of Ketones with Well-Defined Manganese(I) PNN and PNNP Complexes. Organometallics, 2018, 37, 4608-4618.	2.3	79
30	Estimating the Wavenumber of Terminal Metal-Hydride Stretching Vibrations of Octahedral d⁶ Transition Metal Complexes. Inorganic Chemistry, 2018, 57, 13809-13821.	4.0	24
31	The effect of the counteranion on the loss of hydrogen from cationic ruthenium dihydrogen complexes in the solid state. Polyhedron, 2018, 156, 342-349.	2.2	1
32	Mechanisms of the H₂- and transfer hydrogenation of polar bonds catalyzed by iron group hydrides. Dalton Transactions, 2018, 47, 10809-10826.	3.3	35
33	A magnetic resonance disruption (MaRDi) technique for the detection of surface immobilised magnetic nanoparticles. Analytical Methods, 2017, 9, 1681-1683.	2.7	1
34	Unsymmetrical Iron Pâ€NHâ€Pâ€² Catalysts for the Asymmetric Pressure Hydrogenation of Aryl Ketones. Chemistry - A European Journal, 2017, 23, 7212-7216.	3.3	80
35	Asymmetric Transfer Hydrogenation of Ketones Using New Iron(II) (Pâ€NHâ€Nâ€Pâ€²) Catalysts: Changing the Steric and Electronic Properties at Phosphorus Pâ€². Israel Journal of Chemistry, 2017, 57, 1204-1215.	2.3	24
36	Half-Sandwich Ruthenium Catalyst Bearing an Enantiopure Primary Amine Tethered to an N-Heterocyclic Carbene for Ketone Hydrogenation. ACS Catalysis, 2017, 7, 6827-6842.	11.2	26

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37	A capped trigonal pyramidal molybdenum hydrido complex and an unusually mild sulfurâ€“carbon bond cleavage reaction. Chemical Communications, 2017, 53, 11032-11035.	4.1	2
38	Six coordinate capped trigonal bipyramidal complexes. Coordination Chemistry Reviews, 2017, 350, 105-116.	18.8	6
39	An acoustic on-chip goniometer for room temperature macromolecular crystallography. Lab on A Chip, 2017, 17, 4225-4230.	6.0	1
40	From imine to amine: an unexpected left turn. Cis-Î² iron(<scp>ii</scp>) PNNPâ€² precatalysts for the asymmetric transfer hydrogenation of acetophenone. Chemical Science, 2017, 8, 6531-6541.	7.4	31
41	Ketone Asymmetric Hydrogenation Catalyzed by P-NH-Pâ€² Pincer Iron Catalysts: An Experimental and Computational Study. ACS Catalysis, 2017, 7, 316-326.	11.2	83
42	Bromidocarbonyl{(1<i>S</i>,2<i>S</i>)-<i>N</i>-[2-(dicyclohexylphosphanyl)ethylidenyl]-<i>N</i>â€²-[2-(diphenylphosphanyl)ethyl]-1,2 tetraphenylborate. IUCrData, 2017, 2, .	0.3	3
43	Insights into metalâ€“ligand hydrogen transfer: a square-planar ruthenate complex supported by a tetradentate aminoâ€“amido-diolefin ligand. Chemical Communications, 2016, 52, 6138-6141.	4.1	5
44	Transition Metal Complexes of an (S,S)-1,2-Diphenylethylamine-Functionalized N-Heterocyclic Carbene: A New Member of the Asymmetric NHC Ligand Family. Organometallics, 2016, 35, 1604-1612.	2.3	24
45	Density Functional Theory Calculations Support the Additive Nature of Ligand Contributions to the p<i>K</i>_a of Iron Hydride Phosphine Carbonyl Complexes. Inorganic Chemistry, 2016, 55, 9596-9601.	4.0	11
46	Aqueous biphasic iron-catalyzed asymmetric transfer hydrogenation of aromatic ketones. RSC Advances, 2016, 6, 88580-88587.	3.6	23
47	Iron Group Hydrides in Noyori Bifunctional Catalysis. Chemical Record, 2016, 16, 2644-2658.	5.8	29
48	Iron(II) Complexes Containing Chiral Unsymmetrical PNPâ€² Pincer Ligands: Synthesis and Application in Asymmetric Hydrogenations. Organometallics, 2016, 35, 3781-3787.	2.3	62
49	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
50	BrÃ¸nstedâ€“Lowry Acid Strength of Metal Hydride and Dihydrogen Complexes. Chemical Reviews, 2016, 116, 8588-8654.	47.7	194
51	Exploring the decomposition pathways of iron asymmetric transfer hydrogenation catalysts. Dalton Transactions, 2015, 44, 12119-12127.	3.3	18
52	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
53	Exploiting Metalâ€“Ligand Bifunctional Reactions in the Design of Iron Asymmetric Hydrogenation Catalysts. Accounts of Chemical Research, 2015, 48, 1494-1502.	15.6	376
54	An Unsymmetrical Iron Catalyst for the Asymmetric Transfer HydrogenationÂ of Ketones. Synthesis, 2015, 47, 1775-1779.	2.3	35

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55	Getting Down to Earth: The Renaissance of Catalysis with Abundant Metals. Accounts of Chemical Research, 2015, 48, 2495-2495.	15.6	311
56	Template Effect and Ligand Substitution Methods for the Synthesis of Iron Catalysts: A Two-Part Experiment for Inorganic Chemistry. Journal of Chemical Education, 2015, 92, 378-381.	2.3	5
57	{<i>N</i>,<i>N</i>â€²-Bis[2-(diphenylphosphanyl)ethan-1-ylidene]ethylenediamine}bromido(<i>p</i>-toluenesulfonylmethyl) Tj ETQq1 2014, 70, m144-m144.	0.2	2
58	Iron(II) Complexes Containing Unsymmetrical Pâ€“Nâ€“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
59	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
60	Alcohol-assisted base-free hydrogenation of acetophenone catalyzed by OsH(NHCMe₂CMe₂NH₂)(PPh₃)₂. Canadian Journal of Chemistry, 2014, 92, 731-738.	1.1	10
61	A sulfur mimic of 1,1-bis(diphenylphosphino)methane: a new ligand opens up. Chemical Communications, 2014, 50, 4707-4710.	4.1	11
62	Synthesis of Iron P-N-Pâ€² and P-NH-Pâ€² Asymmetric Hydrogenation Catalysts. Organometallics, 2014, 33, 6452-6465.	2.3	62
63	Rational development of iron catalysts for asymmetric transfer hydrogenation. Dalton Transactions, 2014, 43, 7650.	3.3	94
64	Ligand-based molecular recognition and dioxygen splitting: an endo epoxide ending. Dalton Transactions, 2014, 43, 4137-4145.	3.3	4
65	Distinguishing homogeneous from nanoparticle asymmetric iron catalysis. Catalysis Science and Technology, 2014, 4, 3426-3438.	4.1	65
66	Reactivity of Ruthenium Phosphido Species Generated through the Deprotonation of a Tripodal Phosphine Ligand and Implications for Hydrophosphination. Journal of the American Chemical Society, 2014, 136, 4746-4760.	13.7	31
67	Intramolecular Cï£¿H/Oï£¿H Bond Cleavage with Water and Alcohol Using a Phosphineâ€Free Ruthenium Carbene NCN Pincer Complex. Chemistry - A European Journal, 2014, 20, 16960-16968.	3.3	21
68	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
69	Primary Amine Functionalized N-Heterocyclic Carbene Complexes of Iridium: Synthesis, Structure, and Catalysis. Organometallics, 2013, 32, 3808-3818.	2.3	35
70	Oxidative Kinetic Resolution of Aromatic Alcohols Using Iron Nanoparticles. Topics in Catalysis, 2013, 56, 1199-1207.	2.8	4
71	Structural properties of trans hydridoâ€“hydroxo M(H)(OH)(NH2CMe2CMe2NH2)(PPh3)2 (M = Ru, Os) complexes and their proton exchange behaviour with water in solution. Dalton Transactions, 2013, 42, 10214.	3.3	14
72	Amine(imine)diphosphine Iron Catalysts for Asymmetric Transfer Hydrogenation of Ketones and Imines. Science, 2013, 342, 1080-1083.	12.6	454

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73	Evidence for Iron Nanoparticles Catalyzing the Rapid Dehydrogenation of Ammonia-Borane. ACS Catalysis, 2013, 3, 1092-1102.	11.2	57
74	Synthesis of New Late Transition Metal P,P-, P,N-, and P,O- Complexes Using Phosphonium Dimers as Convenient Ligand Precursors. Inorganic Chemistry, 2013, 52, 5448-5456.	4.0	15
75	Frontiers, Opportunities, and Challenges in Biochemical and Chemical Catalysis of CO₂ Fixation. Chemical Reviews, 2013, 113, 6621-6658.	47.7	1,786
76	Ester Hydrogenation Catalyzed by a Ruthenium(II) Complex Bearing an N-Heterocyclic Carbene Tethered with an â€œNH₂â€• Group and a DFT Study of the Proposed Bifunctional Mechanism. ACS Catalysis, 2013, 3, 32-40.	11.2	89
77	The Mechanism of Efficient Asymmetric Transfer Hydrogenation of Acetophenone Using an Iron(II) Complex Containing an (<i>S</i>,<i>S</i>)-Ph₂PCH₂CHâ•NCHPhCHPhNâ•CHCH₂PPh₂ Ligand: Partial Ligand Reduction Is the Key. Journal of the American Chemical Society, 2012, 134, 12266-12280.	13.7	174
78	Synthesis, Characterization, and Activity of Yttrium(III) Nitrate Complexes Bearing Tripodal Phosphine Oxide and Mixed Phosphineâ€"Phosphine Oxide Ligands. Inorganic Chemistry, 2012, 51, 9322-9332.	4.0	27
79	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
80	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
81	Flexible Syntheses of Tripodal Phosphine Ligands 1,1,2-Tris(diarylphosphino)ethane and Their Ruthenium Î·⁵-C₅Me₅ Complexes. Organometallics, 2012, 31, 6589-6594.	2.3	5
82	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
83	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
84	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 <i>trans</i>-Ru(H)₂(diamine)(diphosphine) System. Inorganic Chemistry, 2012, 51, 10808-10818.	4.0	47
85	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
86	Iron Nanoparticles Catalyzing the Asymmetric Transfer Hydrogenation of Ketones. Journal of the American Chemical Society, 2012, 134, 5893-5899.	13.7	219
87	Spectroscopic and DFT Study of Ferraaziridine Complexes Formed in the Transfer Hydrogenation of Acetophenone Catalyzed Using <i>trans</i>-[Fe(CO)(NCMe)(PPh₂C₆H₄CHâ•NCH₂â^')₂-Îº<sup>4</su Organometallics, 2012, 31, 3056-3064.	2.3	46
88	From amine to ruthenaziridine to azaallyl: unusual transformation of di-(2-pyridylmethyl)amine on ruthenium. Dalton Transactions, 2011, 40, 10603.	3.3	6
89	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
90	Stereoelectronic Factors in Iron Catalysis: Synthesis and Characterization of Aryl-Substituted Iron(II) Carbonyl Pâ€"Nâ€"Nâ€"P Complexes and Their Use in the Asymmetric Transfer Hydrogenation of Ketones. Organometallics, 2011, 30, 4418-4431.	2.3	115

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91	Low-Valent Eneâ€"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
92	New cyclic phosphonium salts derived from the reaction of phosphine-aldehydes with acid. Journal of Organometallic Chemistry, 2010, 695, 1824-1830.	1.8	22
93	(Î·5-Pentamethylcyclopentadienyl)(Î·6-toluene)ruthenium(II) hexafluoridophosphate. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, m1264-m1264.	0.2	1
94	Palladium(II) and Platinum(II) Complexes Featuring a Nitrile-Functionalized N-Heterocyclic Carbene Ligand. Organometallics, 2010, 29, 570-581.	2.3	38
95	Template Synthesis of Iron(II) Complexes Containing Tridentate Pâˆ'Nâˆ'S, Pâˆ'Nâˆ'P, Pâˆ'Nâˆ'N, and Tetradentate Pâˆ'Nâˆ'Nâˆ'P Ligands. Inorganic Chemistry, 2010, 49, 1094-1102.	4.0	39
96	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
97	Effect of the Structure of the Diamine Backbone of Pâˆ'Nâˆ'Nâˆ'P ligands in Iron(II) Complexes on Catalytic Activity in the Transfer Hydrogenation of Acetophenone. Inorganic Chemistry, 2010, 49, 11039-11044.	4.0	95
98	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
99	A DFT investigation into the origin of regioselectivity in palladium-catalyzed allylic amination. Canadian Journal of Chemistry, 2009, 87, 54-62.	1.1	16
100	Iron(II) Complexes for the Efficient Catalytic Asymmetric Transfer Hydrogenation of Ketones. Chemistry - A European Journal, 2009, 15, 5605-5610.	3.3	169
101	Asymmetric hydrogenation, transfer hydrogenation and hydrosilylation of ketones catalyzed by iron complexes. Chemical Society Reviews, 2009, 38, 2282.	38.1	700
102	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
103	Synthesis and Characterization of Nitrile-Functionalized N-Heterocyclic Carbenes and Their Complexes of Silver(I) and Rhodium(I). Organometallics, 2009, 28, 853-862.	2.3	20
104	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
105	Efficient Asymmetric Transfer Hydrogenation of Ketones Catalyzed by an Iron Complex Containing a Pâˆ'Nâˆ'Nâˆ'P Tetradentate Ligand Formed by Template Synthesis. Journal of the American Chemical Society, 2009, 131, 1394-1395.	13.7	263
106	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
107	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
108	Dihydrogen, dihydride and in between: NMR and structural properties of iron group complexes. Coordination Chemistry Reviews, 2008, 252, 2381-2394.	18.8	142

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109	Ruthenium hydrogenation catalysts with Pâ€“Nâ€“Nâ€“P ligands derived from 1,3-diaminopropane and the formation of a Î²-diiminate complex by a base-induced isomerization. Inorganica Chimica Acta, 2008, 361, 3149-3158.	2.4	24
110	Template Syntheses of Iron(II) Complexes Containing Chiral Pâˆ'Nâˆ'Nâˆ'P and Pâˆ'Nâˆ'N Ligands. Inorganic Chemistry, 2008, 47, 6587-6589.	4.0	54
111	Use of an Iodide-Modified Merrifield Resin in the Synthesis of Ruthenium Hydride Complexes. The Structure of RuHI((<i>R</i>)-binap)(PPh₃). Organometallics, 2008, 27, 503-508.	2.3	6
112	Pentahydridobis(Tricyclohexylphosphine)-Iridium(V) and Trihydridotris(Triphenylphos-phine)Iridium(III). Inorganic Syntheses, 2007, , 303-308.	0.3	5
113	Hydrogenation of Benzonitrile to Benzylamine Catalyzed by Ruthenium Hydride Complexes with Pâˆ'NHâˆ'NHâˆ'P Tetradentate Ligands:â€‰ Evidence for a Hydridicâˆ'Protonic Outer Sphere Mechanism. Organometallics, 2007, 26, 5940-5949.	2.3	120
114	Properties of the Polyhydride Anions [WH5(PMe2Ph)3]-and [ReH4(PMePh2)3]-and Periodic Trends in the Acidity of Polyhydride Complexes. Inorganic Chemistry, 2007, 46, 4392-4401.	4.0	18
115	Novel hydrido-ruthenium(ii) complexes with histidine derivatives and their application in the hydrogenation of ketones. Dalton Transactions, 2007, , 2536.	3.3	11
116	A Mechanism Displaying Autocatalysis:â€‰ 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
117	An Acidity Scale of Tetrafluoroborate Salts of Phosphonium and Iron Hydride Compounds in [D2]Dichloromethane. Chemistry - A European Journal, 2007, 13, 3796-3803.	3.3	30
118	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 =) Tj ETQq0 0 0 rgBT /Ove	2.3	46
119	An acidity scale of phosphonium tetraphenylborate salts and ruthenium dihydrogen complexes in dichloromethane. Canadian Journal of Chemistry, 2006, 84, 164-175.	1.1	20
120	Ketone H2-hydrogenation catalysts: Ruthenium complexes with the headphone-like ligand bis(phosphaadamantyl)propane. Inorganica Chimica Acta, 2006, 359, 2864-2869.	2.4	18
121	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
122	Asymmetric Hydrogenation of Ketones Catalyzed by Ruthenium Hydride Complexes of a ?-Aminophosphine Ligand Derived from Norephedrine.. ChemInform, 2005, 36, no.	0.0	0
123	Applications of Ruthenium Hydride Borohydride Complexes Containing Phosphinite and Diamine Ligands to Asymmetric Catalytic Reactions.. ChemInform, 2005, 36, no.	0.0	0
124	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.. ChemInform, 2005, 36, no.	0.0	0
125	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
126	Enantioselective Tandem Michael Addition/H2-Hydrogenation Catalyzed by Ruthenium Hydride Borohydride Complexes Containing Î²-aminophosphine Ligands1. Journal of the American Chemical Society, 2005, 127, 516-517.	13.7	98

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127	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
128	Asymmetric Hydrogenation of Ketones Catalyzed by Ruthenium Hydride Complexes of a Beta-aminophosphine Ligand Derived from Norephedrine. Organometallics, 2005, 24, 3354-3354.	2.3	0
129	Applications of Ruthenium Hydride Borohydride Complexes Containing Phosphinite and Diamine Ligands to Asymmetric Catalytic Reactions. Organic Letters, 2005, 7, 1757-1759.	4.6	92
130	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
131	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
132	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
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