

D Michael Heinekey

List of Publications by Year in descending order

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101543

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75
all docs

75
docs citations

75
times ranked

3251
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Catalysis of Ammonia Borane Dehydrogenation. <i>Journal of the American Chemical Society</i> , 2006, 128, 12048-12049.	13.7	605
2	Coordination chemistry of dihydrogen. <i>Chemical Reviews</i> , 1993, 93, 913-926.	47.7	581
3	Dihydrogen complexes of ruthenium. 2. Kinetic and thermodynamic considerations affecting product distribution. <i>Journal of the American Chemical Society</i> , 1990, 112, 5166-5175.	13.7	206
4	Elongated dihydrogen complexes: what remains of the H δ -H Bond?. <i>Chemical Society Reviews</i> , 2004, 33, 175-182.	38.1	178
5	Hydrogenase enzymes: Recent structural studies and active site models. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 2671-2680.	1.8	123
6	Dinuclear Iron Isonitrile Complexes: Models for the Iron Hydrogenase Active Site. <i>Inorganic Chemistry</i> , 2003, 42, 4288-4292.	4.0	117
7	Synthesis, Characterization, and Reactivity of Dicationic Dihydrogen Complexes of Osmium and Ruthenium. <i>Inorganic Chemistry</i> , 1998, 37, 127-132.	4.0	108
8	C δ -H Bond Activation by Rhodium(I) Hydroxide and Phenoxide Complexes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4736-4738.	13.8	108
9	C δ -H Bond Activation by Rhodium(I) Phenoxide and Acetate Complexes: Mechanism of H δ -D Exchange between Arenes and Water. <i>Organometallics</i> , 2008, 27, 1454-1463.	2.3	108
10	Synthesis and Characterization of Hydrotris(pyrazolyl)borate Dihydrogen/Hydride Complexes of Rhodium and Iridium. <i>Journal of the American Chemical Society</i> , 1997, 119, 11028-11036.	13.7	101
11	Structure and Solution Reactivity of (Triethylsilylium)triethylsilane Cations. <i>Organometallics</i> , 2013, 32, 7478-7481.	2.3	98
12	Stereoselective Decarbonylation of Methanol to Form a Stable Iridium(III)trans-Dihydride Complex. <i>Organometallics</i> , 2006, 25, 3007-3011.	2.3	85
13	Synthesis and Properties of Compressed Dihydride Complexes of Iridium: Theoretical and Spectroscopic Investigations. <i>Journal of the American Chemical Society</i> , 2004, 126, 8813-8822.	13.7	79
14	Preparation of a Dihydrogen Complex of Cobalt. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1873-1876.	13.8	79
15	Synthesis and Characterization of a Dicationic Dihydrogen Complex of Iridium with a Bis-carbene Ligand Set. <i>Organometallics</i> , 2005, 24, 1832-1836.	2.3	69
16	Active-Site Models for Iron Hydrogenases: Reduction Chemistry of Dinuclear Iron Complexes. <i>Inorganic Chemistry</i> , 2006, 45, 8000-8002.	4.0	69
17	Synthesis and Investigation of [Cp*(PMe ₃)Rh(H)(H ₂)] ⁺ and Its Partially Deuterated and Tritiated Isotopomers: Evidence for a Hydride/Dihydrogen Structure. <i>Journal of the American Chemical Society</i> , 2002, 124, 5100-5108.	13.7	68
18	Synthesis, Characterization, and Reactivity of Dicationic Dihydrogen Complexes of Osmium. <i>Inorganic Chemistry</i> , 1996, 35, 4396-4399.	4.0	66

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19	Dihydride Complexes of the Cobalt and Iron Group Metals: An Investigation of Structure and Dynamic Behavior. <i>Journal of the American Chemical Society</i> , 1996, 118, 12134-12140.	13.7	63
20	Quantum mechanical exchange in a transition metal hydride complex: NMR data for [cp(PPh ₃)IrH ₃] ⁺ fitted by a two-dimensional model. <i>Journal of Chemical Physics</i> , 1997, 106, 1-10.	3.0	62
21	Alkane Dehydrogenation by C-H Activation at Iridium(III). <i>Organometallics</i> , 2013, 32, 1579-1582.	2.3	61
22	Dihydrogen/Dihydride or Tetrahydride? An Experimental and Computational Investigation of Pincer Iridium Polyhydrides. <i>Inorganic Chemistry</i> , 2010, 49, 1733-1742.	4.0	59
23	Dihydrogen Complexes of Iridium and Rhodium. <i>Inorganic Chemistry</i> , 2012, 51, 4672-4678.	4.0	58
24	The Importance of Steric Factors in Iridium Pincer Complexes. <i>Organometallics</i> , 2015, 34, 753-762.	2.3	54
25	Hydride & dihydrogen complexes of earth abundant metals: structure, reactivity, and applications to catalysis. <i>Chemical Communications</i> , 2017, 53, 669-676.	4.1	54
26	Activation of Hydrogen by Palladium(0): Formation of the Mononuclear Dihydride Complex <i>trans</i> -[Pd(H) ₂ (IPr)(PCy ₃) ₃]. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5182-5186.	13.8	53
27	Partial Deoxygenation of Glycerol Catalyzed by Iridium Pincer Complexes. <i>ACS Catalysis</i> , 2013, 3, 2391-2396.	11.2	52
28	Synthesis, Structure, and Reactivity of Iridium NHC Pincer Complexes. <i>Organometallics</i> , 2011, 30, 1429-1437.	2.3	51
29	Iridium, Rhodium, and Ruthenium Catalysts for the "Aldehyde" Water Shift Reaction. <i>ACS Catalysis</i> , 2014, 4, 3034-3038.	11.2	50
30	Oxyfunctionalization with Cp*Ir ^{III} (NHC)(Me)(Cl) with O ₂ : Identification of a Rare Bimetallic Ir ^{IV} ¹ / ₄ -Oxo Intermediate. <i>Journal of the American Chemical Society</i> , 2015, 137, 3574-3584.	13.7	44
31	Synthesis, Structure, and Reactivity of a Nickel Dihydrogen Complex. <i>Chemistry - A European Journal</i> , 2012, 18, 15932-15934.	3.3	42
32	Cationic Dihydrogen Complexes of Rhodium and Cobalt: A Reinvestigation. <i>Journal of the American Chemical Society</i> , 1994, 116, 8388-8389.	13.7	40
33	Protonation of Metal-Metal Bonds in Dinuclear Iridium Complexes: Consequences for Structure and Reactivity. <i>Organometallics</i> , 1997, 16, 2530-2538.	2.3	40
34	Rhenium Dihydrogen Complexes with Isonitrile Coligands: Novel Displacement of Chloride by Hydrogen. <i>Journal of the American Chemical Society</i> , 1996, 118, 10792-10802.	13.7	39
35	Hydrogen Addition to (pincer)Ir ^I (CO) Complexes: The Importance of Steric and Electronic Factors. <i>Organometallics</i> , 2016, 35, 3546-3556.	2.3	38
36	Temperature- and Solvent-Dependent Binding of Dihydrogen in Iridium Pincer Complexes. <i>Journal of the American Chemical Society</i> , 2006, 128, 17114-17119.	13.7	37

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37	Regeneration of an Iridium(III) Complex Active for Alkane Dehydrogenation Using Molecular Oxygen. <i>Organometallics</i> , 2014, 33, 1337-1340.	2.3	37
38	Synthesis of Ethylene Hydridotris(1-pyrazolyl)borate Triphenylphosphine Complexes of Rhodium and Iridium and Their Reactions with Hydrogen. <i>Organometallics</i> , 1997, 16, 467-474.	2.3	36
39	Structure and Dynamics of a Dihydrogen/Hydride Ansa Molybdenocene Complex. <i>Inorganic Chemistry</i> , 2004, 43, 3475-3483.	4.0	36
40	Pincer Complexes as Catalysts for Amine Borane Dehydrogenation. <i>Topics in Organometallic Chemistry</i> , 2013, , 271-287.	0.7	35
41	An Elongated Dihydrogen Complex of Iridium. <i>Journal of the American Chemical Society</i> , 2003, 125, 8428-8429.	13.7	33
42	Synthesis and Reactivity of the Cationic Methylene Complex [Cp ₂ ReCH ₂] ⁺ . <i>Organometallics</i> , 1998, 17, 51-58.	2.3	32
43	C-H Bond Activation by Cationic Iridium(III) NHC Complexes: A Combined Experimental and Computational Study. <i>Organometallics</i> , 2012, 31, 1879-1887.	2.3	29
44	Carbon-Hydrogen Bond Activation in Hydridotris(pyrazolyl)borate Complexes of Iridium. <i>Organometallics</i> , 2000, 19, 1670-1676.	2.3	24
45	H-H Distances in Elongated Transition Metal Dihydrogen Complexes: Effects of Temperature and Isotopic Substitution. <i>Journal of the American Chemical Society</i> , 2001, 123, 2085-2086.	13.7	24
46	High Catalytic Efficiency Combined with High Selectivity for the Aldehyde-Water Shift Reaction using (<i>p</i> -cymene)Ruthenium Precatalysts. <i>ACS Catalysis</i> , 2016, 6, 6302-6305.	11.2	24
47	Pincer-Supported Carbonyl Complexes of Cobalt(I). <i>Organometallics</i> , 2017, 36, 3104-3109.	2.3	24
48	Dynamic Processes in Dihydrogen/Hydride Complexes of Ruthenium. <i>Journal of the American Chemical Society</i> , 2000, 122, 6498-6499.	13.7	22
49	Transition metal dihydrogen complexes: isotope effects on reactivity and structure. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2007, 50, 1063-1071.	1.0	22
50	Synthesis, Characterization, and Reactivity of Arene-Stabilized Rhodium Complexes. <i>Organometallics</i> , 2011, 30, 2105-2116.	2.3	22
51	Kubas Complexes Revisited: Novel Dihydride Complexes of Tungsten. <i>Journal of the American Chemical Society</i> , 2001, 123, 12728-12729.	13.7	21
52	Detection of an Iridium-Dihydrogen Complex: A Proposed Intermediate in Ionic Hydrogenation. <i>Journal of the American Chemical Society</i> , 2017, 139, 12638-12646.	13.7	21
53	Cationic Dihydrogen/Dihydride Complexes of Osmium: Structure and Dynamics. <i>Organometallics</i> , 2007, 26, 2291-2295.	2.3	19
54	Dihydrogen Complexes of the Chromium Group: Synthesis and Characterization of (Arene) ₂ M(CO) ₂ (H) ₂ Complexes. <i>Organometallics</i> , 2010, 29, 3387-3391.	2.3	19

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55	Structure of a Novel Rhodium Phosphinite Compound: Agostic Interactions as a Model for an Oxidative Addition Intermediate. <i>Organometallics</i> , 2016, 35, 2165-2169.	2.3	19
56	η^6 -Tetramethylfulvene and η^3 : η^3 -Benzene Complexes of Iridium. <i>Organometallics</i> , 2012, 31, 8459-8462.	2.3	18
57	Cyclometalation of a Pyrazolyl Arm in Hydridotris(1-pyrazolyl)borate and Tris(1-pyrazolyl)methane Complexes of Iridium. <i>Journal of the American Chemical Society</i> , 1996, 118, 12842-12843.	13.7	15
58	Characterization of a Palladium Dihydrogen Complex. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5915-5918.	13.8	15
59	The Electronic Structure of $[(\eta^5\text{-C}_5\text{H}_5)_2\text{Co}_2]$: Comment on the Existence of a Complex with an Unsupported Co \equiv Co Double Bond. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 471-473.	4.4	14
60	Dinuclear Iridium Complexes Containing Cp* and Carbonyl Ligands: Synthesis, Structure, and Reactivity. <i>Organometallics</i> , 2009, 28, 3546-3551.	2.3	13
61	Elektronenstruktur von $[(\eta^5\text{-C}_5\text{H}_5)_2\text{Co}_2]$: Kommentar zur Existenz eines Komplexes mit einer unverbrückten Co \equiv Co Doppelbindung. <i>Angewandte Chemie</i> , 1992, 104, 464-466.	2.0	11
62	(Hexamethylbenzene)Ru catalysts for the Aldehyde-Water Shift reaction. <i>Green Chemistry</i> , 2021, 23, 1609-1615.	9.0	11
63	Structure and Dynamics of a Compressed Dihydride Complex of Osmium. <i>Organometallics</i> , 2006, 25, 3481-3485.	2.3	9
64	H ₂ addition to $(\text{Me}_4\text{PCP})\text{Ir}(\text{CO})$: studies of the isomerization mechanism. <i>Dalton Transactions</i> , 2018, 47, 16119-16125.	3.3	9
65	Synthesis, Structure, and Reactivity ofansa-Rhenocene Complexes. <i>Organometallics</i> , 1999, 18, 3070-3074.	2.3	7
66	Synthesis and Characterization of Iridium(I) and Iridium(III) Complexes Containing Dialkylbiphenylphosphines. <i>Organometallics</i> , 2013, 32, 4016-4019.	2.3	7
67	Synthesis and structural characterization of sulfur rich iron (II) carbonyl dimers: Facile reversible reaction with carbon monoxide. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 840-844.	1.8	6
68	Synthesis and Structure of Molybdenum and Tungsten Bisphosphine Carbonyl Dimers. <i>Organometallics</i> , 2008, 27, 3901-3906.	2.3	5
69	Preparation and Reactivity of Bimetallic (pincer)Ir Complexes. <i>Organometallics</i> , 2020, 39, 3323-3334.	2.3	5
70	A Convenient One-Pot Synthesis of Di- <i>n</i> -butylphosphinic Chloride. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2008, 183, 2534-2540.	1.6	3
71	An Improved Synthesis of Me_4PCP and DMPE. <i>Organometallics</i> , 2018, 37, 211-213.	2.3	3