

Richard H Heyn

List of Publications by Year in descending order

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76
all docs

76
docs citations

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times ranked

1557
citing authors

#	ARTICLE	IF	CITATIONS
1	A Disruptive Innovation for Upgrading Methane to C3 Commodity Chemicals. Johnson Matthey Technology Review, 2021, 65, 311-329.	1.0	7
2	Kinetics Assessment of the Homogeneously Catalyzed Hydroformylation of Ethylene on an Rh Catalyst. Industrial & Engineering Chemistry Research, 2021, 60, 16665-16681.	3.7	1
3	A Highly Asymmetric Gold(III) λ^3 -Allyl Complex. Angewandte Chemie - International Edition, 2020, 59, 1516-1520.	13.8	18
4	A Highly Asymmetric Gold(III) λ^3 -Allyl Complex. Angewandte Chemie, 2020, 132, 1532-1536.	2.0	4
5	Zinc Schiff Base Complexes Derived from 2,2'-Diaminobiphenyls: Solution Behavior and Reactivity towards Nitrogen Bases. European Journal of Inorganic Chemistry, 2020, 2020, 3627-3643.	2.0	6
6	Synthesis and characterization of Al@MOF materials. Materials Chemistry and Physics, 2019, 226, 220-225.	4.0	13
7	Synthesis and Characterization of Stable Gold(III) PNP Pincer Complexes. European Journal of Inorganic Chemistry, 2018, 2018, 3113-3117.	2.0	7
8	Synthesis of a (N,C,C) Au(λ^3) pincer complex <i>via</i> C _{sp3} -H bond activation: increasing catalyst robustness by rational catalyst design. Chemical Communications, 2018, 54, 11104-11107.	4.1	20
9	Markovnikov at Gold: Nucleophilic Addition to Alkenes at Au(III). Organometallics, 2018, 37, 1937-1947.	2.3	12
10	<i>trans</i> -Mutation at Gold(III): A Mechanistic Study of a Catalytic Acetylene Functionalization via a Double Insertion Pathway. ACS Catalysis, 2017, 7, 5023-5034.	11.2	35
11	NMR spectroscopic investigations into the mechanism of absorption and desorption of CO ₂ by (tris-pyridyl)amine Zn complexes. Journal of CO ₂ Utilization, 2017, 19, 58-67.	6.8	4
12	Small-molecule activation at Au(III): metallacycle construction from ethylene, water, and acetonitrile. Dalton Transactions, 2016, 45, 14719-14724.	3.3	15
13	Organic Carbonates. , 2015, , 97-113.		9
14	New catalysts for carboxylation of propylene glycol to propylene carbonate via high-throughput screening. Faraday Discussions, 2015, 183, 19-30.	3.2	9
15	Hydrogen storage properties of λ^3 -Mg(BH ₄) ₂ modified by MoO ₃ and TiO ₂ . International Journal of Hydrogen Energy, 2015, 40, 12286-12293.	7.1	42
16	Use of metal-organics based solvents for CO ₂ capture. Energy Procedia, 2014, 63, 1805-1810.	1.8	4
17	Synthesis of Aromatic Carbamates from CO ₂ . Advances in Inorganic Chemistry, 2014, , 83-115.	1.0	22
18	Destabilization effect of transition metal fluorides on sodium borohydride. Physical Chemistry Chemical Physics, 2014, 16, 20483-20491.	2.8	15

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19	A Gold Exchange: A Mechanistic Study of a Reversible, Formal Ethylene Insertion into a Gold(III)–Oxygen Bond. <i>Journal of the American Chemical Society</i> , 2014, 136, 10104-10115.	13.7	64
20	Structural and spectroscopic characterization of potassium fluoroborohydrides. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11226.	2.8	18
21	Generation and Structural Characterization of a Gold(III) Alkene Complex. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1660-1663.	13.8	58
22	Influence of nanoconfinement on morphology and dehydrogenation of the $\text{Li}_{11}\text{BD}_4\text{Mg}_{11}\text{BD}_4$ system. <i>Nanotechnology</i> , 2012, 23, 255704.	2.6	12
23	Versatile Methods for Preparation of New Cyclometalated Gold(III) Complexes. <i>Organometallics</i> , 2012, 31, 6567-6571.	2.3	56
24	Rock –™ Roll With Gold: Synthesis, Structure, and Dynamics of a (bipyridine)AuCl ₃ Complex. <i>Organometallics</i> , 2012, 31, 7093-7100.	2.3	18
25	Microwave methods for the synthesis of gold(III) complexes. <i>Journal of Coordination Chemistry</i> , 2011, 64, 38-47.	2.2	46
26	Synthesis of a Coordinatively Labile Gold(III) Methyl Complex. <i>Organometallics</i> , 2011, 30, 3250-3253.	2.3	17
27	Decomposition of lithium magnesium aluminum hydride. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7602-7611.	7.1	12
28	(η^2 -Diketiminato)dimethylgold(III): Synthesis, Structure, and Reactivity. <i>Organometallics</i> , 2010, 29, 2248-2253.	2.3	19
29	Ping-Pong at Gold: Proton Jump Between Coordinated Phenyl and η^1 -Benzene Ligands, A Computational Study. <i>Journal of Physical Chemistry A</i> , 2010, 114, 8135-8141.	2.5	11
30	The synthesis and thermal degradation products of the C–H bond activating complex [(diimine)Pt(Me)(OSO ₂ CF ₃)]. <i>Journal of Coordination Chemistry</i> , 2009, 62, 3085-3097.	2.2	3
31	The structure of LiMg(AlD ₄) ₃ . <i>Journal of Alloys and Compounds</i> , 2008, 455, 249-254.	5.5	35
32	The crystal structure of LiMgAlD ₆ from combined neutron and synchrotron X-ray powder diffraction. <i>Journal of Alloys and Compounds</i> , 2008, 460, 64-68.	5.5	17
33	The first crystal structure with pyrazine-2-carboxylato-3-amide as a ligand. Synthesis and structure of cis - N , cis - O , trans - O -diaquobis(pyrazine-2-carboxylato- 3-amide)nickel dihydrate. <i>Journal of Coordination Chemistry</i> , 2007, 60, 431-437.	2.2	7
34	A general one-pot synthesis for elusive 2-substituted indenenes: does bis[2-(tert-butyl)indenyl]zirconium(IV) dichloride/MAO polymerise ethene?. <i>Dalton Transactions</i> , 2006, , 2098-2105.	3.3	8
35	Synthetic Explorations Towards Sterically Crowded 1,2,3-Substituted Bis(indenyl)zirconium(IV) Dichlorides. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 1759-1769.	2.0	10
36	The crystal structure of KAlD ₄ . <i>Journal of Alloys and Compounds</i> , 2005, 394, 35-38.	5.5	49

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37	Creative Chemical Approaches for Carbon Dioxide Removal From Flue GAS. , 2005, , 189-200.		1
38	Synthesis, structure, and ethene polymerisation catalysis of 1- or 2-silyl substituted bis[indenyl]zirconium(iv) dichlorides. Dalton Transactions, 2004, , 1578-1589.	3.3	11
39	Synthesis and Molecular Structure of Pd2(C6F5)2[1/4-P(C6F5)CH2CH2P(C6F5)2]2. A Rare Example of P~C Bond Cleavage in a Fluoroaryl Phosphine. Organometallics, 2002, 21, 2781-2784.	2.3	27
40	Semi-Batch Polymerisations of Ethylene with Metallocene Catalysts in the Presence of Hydrogen, 3. Correlation Between Hydrogen Sensitivity and Molecular Parameters. Macromolecular Chemistry and Physics, 2002, 203, 381-387.	2.2	11
41	Coordinatively and electronically unsaturated tris(trimethylsilyl)silyl complexes of manganese and iron. Inorganica Chimica Acta, 2002, 341, 91-98.	2.4	23
42	Oxidative Addition of a Si~C(sp) Bond to Ruthenium:~ Synthesis and Reactivity of Ru(SiMe3)(C~CSiMe3)(CO)(PtBu2Me)2. Organometallics, 1997, 16, 292-293.	2.3	26
43	Is ~donation the only way? Unprecedented unsaturated Ru(II) species devoid of ~donor ligands. Inorganica Chimica Acta, 1997, 259, 5-26.	2.4	42
44	Synthesis and Structural and Reactivity Studies of Thiatitanacyclopropane Complexes [Cp~Ti(SCHCH2CH2S)]2(Cp~= Cp, MeCp). Organometallics, 1996, 15, 2320-2330.	2.3	22
45	Tris(trimethylstannyl)silyl Complexes of Ruthenium and Platinum. Main Group Chemistry, 1996, 1, 415-424.	0.8	1
46	Synthetic, structural and reactivity studies with new group 4 transition-metal silyl complexes. Journal of Organometallic Chemistry, 1995, 493, 83-89.	1.8	32
47	Chemical, Computational, and Structural Studies of Dimeric (Pentamethylcyclopentadienyl)zirconium Thiolate and Alkoxide Complexes. Inorganic Chemistry, 1995, 34, 2804-2812.	4.0	16
48	Dehydrohalogenation for facile generation of unsaturated ruthenium(0). Journal of the American Chemical Society, 1993, 115, 3354-3355.	13.7	18
49	Synthesis and study of the ruthenium-silene complexes (.eta.5-C5Me5)(PR3)RuH(.eta.2-CH2:SiR'2) (R =) Tj ETQq1 1 0.784314 rgBT /O 13.7 64		
50	Synthesis and reactions of silyl and germyl derivatives of scandocene. Structure of Cp2Sc[Si(SiMe3)3](THF). Organometallics, 1993, 12, 2584-2590.	2.3	90
51	Ruthenium(IV) silyl hydride complexes via reaction of silanes with 16-electron [Ru(.eta.5-C5Me5)(PPri3)X](X) Tj ETQq1 1 0.784314 rgBT /O 2.0 40		
52	Silylene-bridged ruthenium dimers via reactions of [(eta.5-C5Me5)Ru(mu.-OMe)]2 with silanes. Structure of {[(eta.5-C5Me5)Ru]2(mu.-SiPhOMe)(mu.-OMe)(mu.-H)}. Organometallics, 1992, 11, 3918-3920.	2.3	27
53	Platinum-mediated reactions of hydrosilanes. Isolation of a complex with bridging disilene and silylene ligands. Journal of the American Chemical Society, 1992, 114, 1917-1919.	13.7	115
54	.sigma.-Bond metathesis reactions for d0 metal-silicon bonds that produce zirconocene and hafnocene hydrosilyl complexes. Journal of the American Chemical Society, 1992, 114, 5698-5707.	13.7	110

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55	Synthesis and structure of $[(\eta^5\text{-C}_5\text{Me}_5\text{Ru}(\eta^1\text{-NPh}))_2]$, an electron-deficient ruthenium amide complex. <i>Tj ETQq1</i> 1 0.784314 rgBT /Ove		
		4.0	41
64	Insertion of ethylene into zirconium-silicon and hafnium-silicon bonds. <i>Organometallics</i> , 1989, 8, 2284-2286.	2.3	34
65	Alkoxy and aryloxy derivatives of (pentamethylcyclopentadienyl)ruthenium. X-ray crystal structures of $[(\eta^5\text{-C}_5\text{Me}_5)\text{Ru}(\mu\text{-OMe})_2]$, $[(\eta^5\text{-C}_5\text{Me}_5)(\text{CO})\text{Ru}(\mu\text{-OEt})_2]$, and $(\eta^5\text{-C}_5\text{Me}_5)\text{Ru}(\eta^5\text{-2,6-tBu}_2\text{C}_6\text{H}_3\text{O})$ and molecular orbital analysis of $[(\eta^5\text{-C}_5\text{H}_5)\text{Ru}(\mu\text{-OMe})_2]$. <i>Journal of the American Chemical Society</i> , 1989, 111, 4712-4718.	13.7	122
66	Tris(trimethylsilyl)silyl derivatives of tri-tert-butoxyzirconium and tri-tert-butoxyhafnium. X-ray crystal structure of $(\text{Me}_3\text{CO})_3\text{ZrSi}(\text{SiMe}_3)_3$. <i>Inorganic Chemistry</i> , 1989, 28, 1768-1769.	4.0	40
67	Dimesitylsilyl derivatives of zirconium. <i>Organometallics</i> , 1989, 8, 324-330.	2.3	62
68	Preparation, isolation, and characterization of transition-metal η^2 -silene complexes. X-ray crystal structure of $(\eta^5\text{-C}_5\text{Me}_5)[\text{P}(\text{iso-Pr})_3]\text{Ru}(\text{H})(\eta^2\text{-CH}_2\text{SiPh}_2)$. <i>Journal of the American Chemical Society</i> , 1988, 110, 7558-7560.	13.7	73
69	Preparation and reactivity of 16-electron η^5 -half-sandwich TM ruthenium complexes; X-ray crystal structure of $(\eta^5\text{-C}_5\text{Me}_5)\text{Ru}(\text{PPri}_3)\text{Cl}$. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, , 278-280.	2.0	106
70	Synthesis and carbon monoxide insertion reactions of $(\eta^5\text{-cycloheptadienyl})\text{Fe}(\text{CO})(\text{L})\text{Me}$ [L = CO, P(OPh) ₃]. <i>Organometallics</i> , 1986, 5, 818-819.	2.3	13