

# Michael K Whittlesey

## List of Publications by Year in descending order

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133  
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6,830  
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53660

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69108

77  
g-index

146  
all docs

146  
docs citations

146  
times ranked

4913  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition metal catalysed reactions of alcohols using borrowing hydrogen methodology. Dalton Transactions, 2009, , 753-762.	1.6	616
2	Ruthenium-Catalyzed Meta Sulfonation of 2-Phenylpyridines. Journal of the American Chemical Society, 2011, 133, 19298-19301.	6.6	457
3	Synthesis, Electronic Structure, and Magnetism of $[\text{Ni}(\text{6-Mes})_2]^+$ : A Two-Coordinate Nickel(I) Complex Stabilized by Bulky N-Heterocyclic Carbenes. Journal of the American Chemical Society, 2013, 135, 13640-13643.	6.6	242
4	CH Activation Reactions of Ruthenium N-Heterocyclic Carbene Complexes: Application in a Catalytic Tandem Reaction Involving CC Bond Formation from Alcohols. Journal of the American Chemical Society, 2007, 129, 1987-1995.	6.6	197
5	C <sup>α</sup> -C and C <sup>α</sup> -H Bond Activation Reactions in N-Heterocyclic Carbene Complexes of Ruthenium. Journal of the American Chemical Society, 2002, 124, 4944-4945.	6.6	193
6	Borrowing hydrogen: a catalytic route to C <sup>α</sup> -C bond formation from alcohols. Chemical Communications, 2004, , 90-91.	2.2	177
7	Ruthenium Induced C <sup>α</sup> -N Bond Activation of an N-Heterocyclic Carbene: Isolation of C- and N-Bound Tautomers. Journal of the American Chemical Society, 2006, 128, 13702-13703.	6.6	175
8	Catalytic Hydrodefluorination of Aromatic Fluorocarbons by Ruthenium N-Heterocyclic Carbene Complexes. Journal of the American Chemical Society, 2009, 131, 1847-1861.	6.6	155
9	Catalytic Hydrodefluorination with Late Transition Metal Complexes. ACS Catalysis, 2014, 4, 3152-3159.	5.5	149
10	Abnormally Bound N-Heterocyclic Carbene Complexes of Ruthenium: C <sup>β</sup> -H Activation of Both C4 and C5 Positions in the Same Ligand. Angewandte Chemie - International Edition, 2007, 46, 6343-6345.	7.2	123
11	Direct and Transfer Hydrogenation of Ketones and Imines with a Ruthenium N-Heterocyclic Carbene Complex. Advanced Synthesis and Catalysis, 2005, 347, 591-594.	2.1	111
12	Borrowing hydrogen: iridium-catalysed reactions for the formation of C <sup>α</sup> -C bonds from alcohols. Organic and Biomolecular Chemistry, 2006, 4, 116-125.	1.5	104
13	C <sup>α</sup> -C Bond formation from alcohols using a Xantphos ruthenium complex. Tetrahedron Letters, 2006, 47, 6787-6789.	0.7	103
14	N-Alkylation of phenethylamine and tryptamine. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 535-537.	1.0	101
15	Activation of an Alkyl C <sup>α</sup> -H Bond Geminal to an Agostic Interaction: An Unusual Mode of Base-Induced C <sup>α</sup> -H Activation. Journal of the American Chemical Society, 2009, 131, 4604-4605.	6.6	89
16	Three-coordinate Nickel(I) Complexes Stabilised by Six-, Seven- and Eight-membered Ring N-Heterocyclic Carbenes: Synthesis, EPR/DFT Studies and Catalytic Activity. Chemistry - A European Journal, 2013, 19, 2158-2167.	1.7	89
17	Ni(i) and Ni(ii) ring-expanded N-heterocyclic carbene complexes: C <sup>α</sup> -H activation, indole elimination and catalytic hydrodehalogenation. Chemical Communications, 2010, 46, 5151.	2.2	85
18	Transient and matrix photochemistry of Fe(dmpe)2H2 (dmpe = Me2PCH2CH2Me2): dynamics of C-H and H-H activation. Journal of the American Chemical Society, 1993, 115, 8627-8637.	6.6	83

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19	Experimental and Computational Investigation of C <sup>≡</sup> N Bond Activation in Ruthenium N-Heterocyclic Carbene Complexes. <i>Journal of the American Chemical Society</i> , 2010, 132, 18408-18416.	6.6	78
20	Catalytic Hydrodefluorination of Pentafluorobenzene by [Ru(NHC)(PPh <sub>3</sub> ) <sub>2</sub> (CO)H <sub>2</sub> ]: A Nucleophilic Attack by a Metal-Bound Hydride Ligand Explains an Unusual <i>ortho</i> -Regioselectivity. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2783-2786.	7.2	76
21	Facile Insertion of CO <sub>2</sub> into the Ru-H Bonds of Ru(dmpe) <sub>2</sub> H <sub>2</sub> (dmpe = Me <sub>2</sub> PCH <sub>2</sub> CH <sub>2</sub> PMe <sub>2</sub> ): Identification of Three Ruthenium Formate Complexes. <i>Organometallics</i> , 1996, 15, 5166-5169.	1.1	75
22	Ruthenium-catalysed conversion of 1,4-alkynediols into pyrroles. <i>Tetrahedron Letters</i> , 2007, 48, 5115-5120.	0.7	75
23	Reversible Intramolecular Alkyl C-H Bond Activation, Alcohol Dehydrogenation, and <i>Trans</i> - <i>Cis</i> Dihydride Isomerization in Ruthenium N-Heterocyclic Carbene Complexes. <i>Organometallics</i> , 2004, 23, 4537-4539.	1.1	73
24	Abnormal coordination of Arduengo's carbene upon reaction with M <sub>3</sub> (CO) <sub>12</sub> (M = Ru, Os). <i>Dalton Transactions</i> , 2008, , 4209.	1.6	68
25	Facile intermolecular aromatic C-F bond activation reaction of [Ru(dmpe) <sub>2</sub> H <sub>2</sub> ] (dmpe = Me <sub>2</sub> PCH <sub>2</sub> CH <sub>2</sub> PMe <sub>2</sub> ). <i>Journal of the American Chemical Society</i> , 2008, 130, 10784-10786.	2.2	66
26	Ruthenium-catalysed transfer hydrogenation reactions with dimethylamine borane. <i>Tetrahedron Letters</i> , 2011, 52, 6652-6654.	0.7	61
27	Neutral and Cationic Fluorinated N-Heterocyclic Carbene Complexes of Rhodium and Iridium. <i>Organometallics</i> , 2006, 25, 3761-3767.	1.1	60
28	N-Heterocyclic Carbene Stabilized <i>trans</i> -Dihydrido Aqua and Ethanol Complexes of Ruthenium: Precursors to Complexes with Ru-Heteroatom Bonds. <i>Organometallics</i> , 2003, 22, 670-683.	1.1	59
29	Activation of H <sub>2</sub> over the Ru-Zn Bond in the Transition Metal-Lewis Acid Heterobimetallic Species [Ru(IPr) <sub>2</sub> (CO)ZnEt] <sup>+</sup> . <i>Journal of the American Chemical Society</i> , 2016, 138, 11081-11084.	6.6	59
30	Matrix isolation and transient photochemistry of ruthenium complex Ru(dmpe) <sub>2</sub> H <sub>2</sub> : characterization and reactivity of Ru(dmpe) <sub>2</sub> (dmpe = Me <sub>2</sub> PCH <sub>2</sub> CH <sub>2</sub> PMe <sub>2</sub> ). <i>Journal of the American Chemical Society</i> , 1992, 114, 7425-7435.	6.6	58
31	Synthesis, molecular structure and NMR spectroscopy of a transition-metal bifluoride complex: formation via C-F activation or reaction with Et <sub>3</sub> N·3HF. <i>Chemical Communications</i> , 1997, , 187-188.	2.2	58
32	C-F bond activation of perfluoroalkenes by ruthenium phosphine hydride complexes: X-ray crystal structures of <i>cis</i> -Ru(dmpe) <sub>2</sub> (F <sub>2</sub> CF <sub>2</sub> ) and [Ru(dcpe) <sub>2</sub> H] <sup>+</sup> [(CF <sub>3</sub> ) <sub>2</sub> C=C(O)CF <sub>2</sub> CF <sub>3</sub> ] <sup>-</sup> . <i>Chemical Communications</i> , 2001, , 813-814.	2.2	58
33	Copper-NHC-Mediated Semihydrogenation and Hydroboration of Alkynes: Enhanced Catalytic Activity Using Ring-Expanded Carbenes. <i>Organometallics</i> , 2018, 37, 3102-3110.	1.1	58
34	Tripodal N-Heterocyclic Carbene Complexes of Palladium and Copper: Syntheses, Characterization, and Catalytic Activity. <i>Organometallics</i> , 2010, 29, 4097-4104.	1.1	56
35	Ruthenium Bidentate Phosphine Complexes for the Coordination and Catalytic Dehydrogenation of Amine and Phosphine-Boranes. <i>Chemistry - A European Journal</i> , 2011, 17, 8704-8713.	1.7	56
36	Cleavage of Ru <sub>3</sub> (CO) <sub>12</sub> by N-Heterocyclic Carbenes: Isolation of <i>cis</i> - and <i>trans</i> -Ru(NHC) <sub>2</sub> (CO) <sub>3</sub> and Reaction with O <sub>2</sub> To Form Ru(NHC) <sub>2</sub> (CO) <sub>2</sub> (CO <sub>3</sub> ). <i>Organometallics</i> , 2008, 27, 100-108.	1.1	54

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37	Synthesis of furans, pyrroles and pyridazines by a ruthenium-catalysed isomerisation of alkynediols and in situ cyclisation. <i>Tetrahedron</i> , 2009, 65, 8981-8986.	1.0	54
38	Ruthenium xantphos complexes in hydrogen transfer processes: reactivity and mechanistic studies. <i>Dalton Transactions</i> , 2009, , 716-722.	1.6	53
39	Coordination, Agostic Stabilization, and C-H Bond Activation of N-Alkyl Heterocyclic Carbenes by Coordinatively Unsaturated Ruthenium Hydride Chloride Complexes. <i>Organometallics</i> , 2009, 28, 6676-6686.	1.1	52
40	Synthesis and characterization of phosphorescent two-coordinate copper(II) complexes bearing diamidocarbene ligands. <i>Dalton Transactions</i> , 2017, 46, 745-752.	1.6	52
41	Laser Flash Photolysis and Matrix Isolation Studies of Ru[R <sub>2</sub> PCH <sub>2</sub> CH <sub>2</sub> PR <sub>2</sub> ] <sub>2</sub> H <sub>2</sub> (R = C <sub>2</sub> H <sub>5</sub> , C <sub>6</sub> H <sub>5</sub> , C <sub>2</sub> F <sub>5</sub> ): Control of Oxidative Addition Rates by Phosphine Substituents. <i>Journal of the American Chemical Society</i> , 1995, 117, 10047-10054.	6.6	49
42	[Ru(NHC)(xantphos)(CO)H <sub>2</sub> ] complexes: intramolecular C-H activation and applications in C-C bond formation. <i>Dalton Transactions</i> , 2009, , 6941.	1.6	46
43	A theoretical study of [M(PH <sub>3</sub> ) <sub>4</sub> ] (M = Ru or Fe), models for the highly reactive d <sup>8</sup> intermediates [M(dmpe) <sub>2</sub> ] (dmpe = Me <sub>2</sub> PCH <sub>2</sub> CH <sub>2</sub> PMe <sub>2</sub> ). Zero activation energies for addition of CO and oxidative addition of H <sub>2</sub> . <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 291-300.	1.1	45
44	Synthesis and X-ray Structural Characterization of Ru(PPh <sub>3</sub> ) <sub>3</sub> (CO)(C <sub>2</sub> H <sub>4</sub> ) and RuH(o-C <sub>6</sub> H <sub>4</sub> C(O)CH <sub>3</sub> )(PPh <sub>3</sub> ) <sub>2</sub> L (L = PPh <sub>3</sub> , CO, DMSO): A Ruthenium Complexes with Relevance to the Murai Reaction. <i>Organometallics</i> , 2001, 20, 3745-3751.	1.1	45
45	PGSE Diffusion Studies on Chelating Phosphine Complexes of Ruthenium(II). Solvent Dependence and Ion Pairing. <i>Organometallics</i> , 2003, 22, 2956-2960.	1.1	45
46	Ruthenium Hydride Complexes of 1,2-Dicyclohexylimidazol-2-ylidene. <i>Organometallics</i> , 2005, 24, 5868-5878.	1.1	45
47	Stoichiometric and catalytic reactivity of the N-heterocyclic carbene ruthenium hydride complexes [Ru(NHC)(L)(CO)HCl] and [Ru(NHC)(L)(CO)H(1-BH <sub>4</sub> )] (L = NHC, PPh <sub>3</sub> ). <i>Dalton Transactions</i> , 2008, , 2603.	1.6	45
48	Pincer Phosphine Complexes of Ruthenium: Formation of Ru(P <sup>+</sup> OP <sup>-</sup> )(PPh <sub>3</sub> ) <sub>3</sub> HCl (P <sup>+</sup> OP <sup>-</sup> = Tj ETQqO O O rgBT /Overlock). Ru(dppf)(PPh <sub>3</sub> ) <sub>3</sub> HCl and Characterization of Cationic Dioxygen, Dihydrogen, Dinitrogen, and Arene Coordinated Phosphine Products. <i>Inorganic Chemistry</i> , 2010, 49, 7244-7256.	1.9	45
49	C-H Bond Activation via Hydrogen Transfer to Hydride in Ruthenium N-Heterocyclic Carbene Complexes: A Density Functional and Synthetic Studies. <i>Organometallics</i> , 2006, 25, 99-110.	1.1	44
50	Synthesis and Structures of Organometallic Aqua Complexes of Ruthenium(II). <i>Organometallics</i> , 1999, 18, 4068-4074.	1.1	42
51	Computational study of the hydrodefluorination of fluoroarenes at [Ru(NHC)(PR <sub>3</sub> ) <sub>2</sub> (CO)(H) <sub>2</sub> ]: predicted scope and regioselectivities. <i>Dalton Transactions</i> , 2013, 42, 7386.	1.6	42
52	Matrix Photochemistry of Ru(CO) <sub>2</sub> (PMe <sub>3</sub> ) <sub>2</sub> H <sub>2</sub> and Ru(CO) <sub>3</sub> (PMe <sub>3</sub> ) <sub>2</sub> : Formation of Ru(CO) <sub>2</sub> (PMe <sub>3</sub> ) <sub>2</sub> . <i>Organometallics</i> , 1995, 14, 3268-3274.	1.1	41
53	The Influence of N-Heterocyclic Carbenes (NHC) on the Reactivity of [Ru(NHC) <sub>4</sub> H] <sup>+</sup> With H <sub>2</sub> , N <sub>2</sub> , CO and O <sub>2</sub> . <i>Chemistry - A European Journal</i> , 2009, 15, 10912-10923.	1.7	41
54	Reductive Elimination at Carbon under Steric Control. <i>Journal of the American Chemical Society</i> , 2019, 141, 9823-9826.	6.6	41

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55	The reaction of $M(\text{CO})_3(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)$ ( $M = \text{Fe}, \text{Ru}$ ) with parahydrogen: probing the electronic structure of reaction intermediates and the internal rearrangement mechanism for the dihydride products. <i>Dalton Transactions</i> , 2004, , 3218-3224.	1.6	39
56	Formation of $[\text{Ru}(\text{NHC})_4(\text{i}^2\text{-O}_2)\text{H}]^+$ : An Unusual, High Frequency Hydride Chemical Shift and Facile, Reversible Coordination of $\text{O}_2$ . <i>Journal of the American Chemical Society</i> , 2009, 131, 9618-9619.	6.6	38
57	Neutral and Cationic Mono- and Bis- <i>N</i> -heterocyclic Carbene Complexes Derived From Manganese and Rhenium Carbonyl Precursors. <i>Organometallics</i> , 2011, 30, 2200-2211.	1.1	38
58	Synthesis and Reactivity of $\text{Ru}(\text{PPh}_3)_3(\text{CO})\text{HF}$ and the N-Heterocyclic Carbene Derivatives $\text{Ru}(\text{NHC})(\text{PPh}_3)_2(\text{CO})\text{HF}$ . <i>Organometallics</i> , 2007, 26, 3484-3491.	1.1	37
59	Computational Study of $\text{C}=\text{C}$ Activation of 1,3-Dimesitylimidazol-2-ylidene (IMes) at Ruthenium: The Role of Ligand Bulk in Accessing Reactive Intermediates. <i>Organometallics</i> , 2008, 27, 617-625.	1.1	36
60	Mechanistic Study of Ru-NHC-Catalyzed Hydrodefluorination of Fluoropyridines: The Influence of the NHC on the Regioselectivity of $\text{C}=\text{F}$ Activation and Chemoselectivity of $\text{C}=\text{F}$ versus $\text{C}=\text{H}$ Bond Cleavage. <i>ACS Catalysis</i> , 2015, 5, 776-787.	5.5	36
61	Ring-Expanded N-Heterocyclic Carbene Complexes of Ruthenium. <i>Organometallics</i> , 2010, 29, 991-997.	1.1	35
62	A Comparison of the Stability and Reactivity of Diamido- and Diaminocarbene Copper Alkoxide and Hydride Complexes. <i>Chemistry - A European Journal</i> , 2015, 21, 14075-14084.	1.7	35
63	Structure, Reactivity, and Computational Studies of a Novel Ruthenium Hydrogen Sulfide Dihydride Complex. <i>Inorganic Chemistry</i> , 2003, 42, 7695-7697.	1.9	34
64	Synthesis and Reactivity of $\text{Ru}(\text{NHC})(\text{dppp})(\text{CO})\text{H}_2$ and $\text{Ru}(\text{NHC})(\text{dppp})(\text{CO})\text{HF}$ Complexes: C-H and C-F Activation. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 1774-1785.	1.0	34
65	Zn-Promoted $\text{C}=\text{H}$ Reductive Elimination and $\text{H}_2$ Activation via a Dual Unsaturated Heterobimetallic $\text{Ru}=\text{Zn}$ Intermediate. <i>Journal of the American Chemical Society</i> , 2020, 142, 6340-6349.	6.6	34
66	Mechanistic Studies of the Rhodium NHC Catalyzed Hydrodefluorination of Polyfluorotoluenes. <i>Organometallics</i> , 2014, 33, 6165-6170.	1.1	33
67	Stoichiometric and Catalytic Reactivity of $\text{Ni}(\text{6-Mes})(\text{PPh})_3$ . <i>Organometallics</i> , 2017, 36, 1776-1783.	1.1	33
68	Experimental and Computational Studies of the Copper Borate Complexes $[(\text{NHC})\text{Cu}(\text{HBEt}_3)_3]$ and $[(\text{NHC})\text{Cu}(\text{HB}(\text{C}_6\text{F}_5)_3)_3]$ . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15539-15543.	7.2	31
69	Low-Temperature-Matrix and Room-Temperature-Solution Photochemistry of $\text{Ru}(\text{CO})_3(\text{dmpe})$ ( $\text{dmpe} = \text{Tj ETQq1}$ ). <i>Journal of the American Chemical Society</i> , 2017, 139, 10784-10791.	1.1	30
70	Water-soluble hydroxyalkylated phosphines: examples of their differing behaviour toward ruthenium and rhodium. <i>Dalton Transactions</i> , 2004, , 4202.	1.6	29
71	Mononuclear and dinuclear complexes with a $[\text{Ru}(\text{tBu}_2\text{PCH}_2\text{CH}_2\text{PtBu}_2)(\text{CO})]$ core. <i>Dalton Transactions</i> , 2005, , 588.	1.6	29
72	Use of Ring-Expanded Diamino- and Diamidocarbene Ligands in Copper Catalyzed Azide-Alkyne Click Reactions. <i>Organometallics</i> , 2014, 33, 5882-5887.	1.1	29

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73	Ability of N-Heterocyclic Carbene Ligands to Promote Intermolecular Oxidative Addition Reactions at Unsaturated Ruthenium Centers. <i>Organometallics</i> , 2004, 23, 1857-1865.	1.1	28
74	Computational Studies of Intramolecular Carbon-Heteroatom Bond Activation of N-Aryl Heterocyclic Carbene Ligands. <i>Organometallics</i> , 2008, 27, 938-944.	1.1	28
75	Stereoelectronic Effects in C-H Bond Oxidation Reactions of Ni(II) N-Heterocyclic Carbene Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 7160-7169.	1.9	28
76	Room Temperature Regioselective Catalytic Hydrodefluorination of Fluoroarenes with $\text{trans-[Ru(NHC)}_4\text{H}_2]$ through a Concerted Nucleophilic Ru-H Attack Pathway. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1515-1519.	7.2	28
77	Synthesis and structural characterisation of rhodium hydride complexes bearing N-heterocyclic carbene ligands. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 5027-5035.	0.8	27
78	The first ring-expanded NHC-copper phosphides as catalysts in the highly selective hydrophosphination of isocyanates. <i>Chemical Communications</i> , 2020, 56, 13359-13362.	2.2	27
79	Cationic Tris N-Heterocyclic Carbene Rhodium Carbonyl Complexes: Molecular Structures and Solution NMR Studies. <i>Organometallics</i> , 2006, 25, 2642-2648.	1.1	26
80	Intramolecular C-H insertion in ring-expanded N-heterocyclic carbenes. <i>Tetrahedron Letters</i> , 2010, 51, 557-559.	0.7	26
81	Photochemical intermolecular C-H and C-F insertion of rhodium into pentafluoroanisole to generate a metallacycle; conversion to a cyclic carbene complex. <i>Chemical Communications</i> , 1996, , 961-962.	2.2	25
82	Influence of Ring-Expanded N-Heterocyclic Carbenes on the Structures of Half-Sandwich Ni(II) Complexes: An X-ray, Electron Paramagnetic Resonance (EPR), and Electron Nuclear Double Resonance (ENDOR) Study. <i>Inorganic Chemistry</i> , 2016, 55, 11006-11017.	1.9	25
83	Formation and X-ray structure of a novel water-soluble tertiary-secondary phosphine complex of ruthenium(II): $[\text{Ru}\{\text{P}(\text{CH}_2\text{OH})_3\}_2\{\text{P}(\text{CH}_2\text{OH})_2\text{H}\}_2\text{Cl}_2]$ . <i>Chemical Communications</i> , 1998, , 1107-1108.	2.2	24
84	Sequential Formation of $[\text{Ru}(\text{IPr})_2(\text{CO})\text{H}(\text{OH})_2]^+$ and $[\text{Ru}(\text{IPr})_6\text{-C}_6\text{H}_6(\text{CO})\text{H}]^+$ upon Protonation of $[\text{Ru}(\text{IPr})_2(\text{CO})\text{H}(\text{OH})]$ (IPr = 1,3-bis(2,6-diisopropylphenyl)imidazol-2-ylidene). <i>Organometallics</i> , 2009, 28, 1976-1979.	1.1	23
85	Rh-FHF and Rh-F Complexes Containing Small N-Alkyl Substituted Six-Membered Ring N-Heterocyclic Carbenes. <i>Organometallics</i> , 2014, 33, 1986-1995.	1.1	23
86	Ring-Expanded N-Heterocyclic Carbene Complexes of Rhodium with Bifluoride, Fluoride, and Fluoroaryl Ligands. <i>Organometallics</i> , 2012, 31, 8584-8590.	1.1	22
87	Synthesis and Small Molecule Reactivity of <i>trans</i> -Dihydride Isomers of $\text{Ru}(\text{NHC})_2(\text{PPh}_3)_2\text{H}_2$ (NHC = N-Heterocyclic Carbene). <i>Organometallics</i> , 2013, 32, 4927-4937.	1.1	22
88	Computation provides chemical insight into the diverse hydride NMR chemical shifts of $[\text{Ru}(\text{NHC})_4(\text{L})\text{H}]^0$ species (NHC = N-heterocyclic carbene; L = vacant,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Dalton Transactions</i> , 2017, 46, 2861-2873.	1.6	22
89	Photochemistry of $\text{Cp}^*\text{Mn}(\text{CO})_2(\text{NHC})$ ( $\text{Cp}^* = \text{C}_5\text{Me}_5$ ) Species: Synthesis, Time-Resolved IR Spectroscopy, and DFT Calculations. <i>Organometallics</i> , 2012, 31, 4971-4979.	1.1	21
90	Copper Diamidocarbene Complexes: Characterization of Monomeric to Tetrameric Species. <i>Inorganic Chemistry</i> , 2014, 53, 2699-2707.	1.9	21

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91	Photochemical Isomerization of N-Heterocyclic Carbene Ruthenium Hydride Complexes: In situ Photolysis, Parahydrogen, and Computational Studies. <i>Journal of the American Chemical Society</i> , 2006, 128, 7452-7453.	6.6	20
92	Formation of Cyclometallated N-Heterocyclic Carbene (NHC) Complexes from LnRuCl <sub>2</sub> (L = Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td). <i>Organometallics</i> , 2016, 35, 2213-2219.	1.0	20
93	[Ru(NHC)(Pâ€“P)(CO)HF] (NHC=â€“N-heterocyclic carbene; Pâ€“P=â€“xantphos, dppf) complexes: Efforts to prepare new hydrodefluorination catalysts. <i>Journal of Organometallic Chemistry</i> , 2011, 696, 780-786.	0.8	19
94	Isolation of [Ru(IPr) <sub>2</sub> (CO)H] <sup>+</sup> (IPr = Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (1,3-Bis(2,6-diisopropylphenyl)imidazol-2-ylidene)). <i>Organometallics</i> , 2016, 35, 1301-1312.	1.1	19
95	Substitution Reactions of [Ru(dppe)(CO)(H <sub>2</sub> O) <sub>3</sub> ][OTf] <sub>2</sub> . <i>Inorganic Chemistry</i> , 2002, 41, 3137-3145.	1.9	18
96	Determination of metal-hydride and metal-ligand (L = CO, N <sub>2</sub> ) bond energies using photoacoustic calorimetry. <i>Journal of the American Chemical Society</i> , 1993, 115, 1921-1925.	6.6	17
97	Synthesis and isomerisation of two metallated N,O-complexes of ruthenium: Models for the Murai reaction. <i>Inorganica Chimica Acta</i> , 2006, 359, 815-820.	1.2	17
98	Lactide polymerisation by ring-expanded NHC complexes of zinc. <i>Polyhedron</i> , 2016, 103, 121-125.	1.0	17
99	Catalytic Hydrodefluorination of Fluoroarenes Using Ru(IMe <sub>4</sub> ) <sub>2</sub> L <sub>2</sub> H <sub>2</sub> (IMe <sub>4</sub> = Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (1,3-bis(2,6-diisopropylphenyl)imidazol-2-ylidene)). <i>Organometallics</i> , 2016, 35, 2308-2316.	1.1	17
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