

Donald H Berry

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Oxidative Addition of Silicon- σ -Chloride Bonds to a Zerovalent Ruthenium Center and Direct Generation of an Ethylene Insertion Complex. <i>Inorganic Chemistry</i> , 2022, 61, 8639-8643.	4.0	0
2	Electrochemistry of Ruthenium Bis(imino)pyridine Compounds: Evidence for an ECE Mechanism and Isolation of Mono and Dicationic Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 435-445.	4.0	8
3	Magnetism and EPR Studies of Binuclear Ruthenium Hydride Binuclear Species Bearing Redox-Active Ligands. <i>Inorganic Chemistry</i> , 2018, 57, 7036-7043.	4.0	2
4	Sodium and Potassium Cyclopentadienide. <i>Inorganic Syntheses</i> , 2014, , 35-37.	0.3	1
5	Synthesis of Tridentate 2,6-Bis(imino)pyridyl Ruthenium(II) Complexes with N-Heterocyclic Carbene Ligands: Activation of Imidazolium Salts. <i>Inorganic Chemistry</i> , 2014, 53, 11447-11456.	4.0	9
6	Structure and Reactivity of Acetylene Complexes of Bis(imino)pyridine Ruthenium(0). <i>Organometallics</i> , 2011, 30, 2125-2136.	2.3	24
7	Synthesis of tridentate 2,6-bis(imino)pyridyl aminechlorohydro ruthenium(II) complexes: The convenient use of amine hydrochlorides to generate metal-hydride. <i>Journal of Organometallic Chemistry</i> , 2011, 696, 1895-1898.	1.8	5
8	Evidence for Ligand Non-innocence in a Formally Ruthenium(I) Hydride Complex. <i>Journal of the American Chemical Society</i> , 2010, 132, 4107-4109.	13.7	31
9	Low-Valent Ruthenium Complexes of the Non-innocent 2,6-Bis(imino)pyridine Ligand. <i>Organometallics</i> , 2010, 29, 591-603.	2.3	51
10	Synthesis and characterization of 1-methyl-1-silaindane and 1-methyl-1-germaindane. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 169-172.	1.8	3
11	trans -1,1-Di-tert -Butyl-2,3-Dimethylsilirane and 2,2-Di-tert -Butyl-1,1,1-Triethylsilane. <i>Inorganic Syntheses</i> , 2007, , 81-85.	0.3	0
12	Synthesis and Structure of Ruthenium σ -Silylene Complexes: σ Activation of Si σ -Cl Bonds in N-Heterocyclic Silanes. <i>Journal of the American Chemical Society</i> , 2006, 128, 6038-6039.	13.7	71
13	Synthesis and Properties of Hybrid Organic σ -Inorganic Materials Containing Covalently Bonded Luminescent Polygermanes. <i>Chemistry of Materials</i> , 2005, 17, 157-163.	6.7	35
14	Tandem σ -C σ -H Activation/ σ -H Elimination Reactions: Stabilization of C σ -H Activation Products by σ -Agostic σ -H Interactions. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3947-3949.	13.8	28
15	The first optically active polygermanes: preferential screw sense helicity of enantiopure chiral-substituted aryl polygermanes and comparison with analogous polysilanes. <i>Journal of Organometallic Chemistry</i> , 2003, 685, 44-50.	1.8	24
16	Synthesis and Reactivity of Silyl Ruthenium Complexes: σ The Importance of Trans Effects in C σ -H Activation, Si σ -C Bond Formation, and Dehydrogenative Coupling of Silanes. <i>Journal of the American Chemical Society</i> , 2003, 125, 8043-8058.	13.7	51
17	Structure and Reactivity of Bis(silyl) Dihydride Complexes (PMe $_3$) $_3$ Ru(SiR $_3$) $_2$ (H) $_2$: σ Model Compounds and Real Intermediates in a Dehydrogenative C σ -Si Bond Forming Reaction. <i>Journal of the American Chemical Society</i> , 2003, 125, 8936-8948.	13.7	37
18	Access to Unsaturated Ruthenium Complexes via Phosphine Complexation with Triphenylborane: σ Synthesis and Structure of a Zwitterionic Arene Complex, (σ -6-Ph-BPh $_2$ H)Ru(PMe $_3$) $_2$ (SiMe $_3$). <i>Organometallics</i> , 2000, 19, 3374-3378.	2.3	34

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19	Spin-on-glass thin films prepared from a novel polysilsesquioxane by thermal and ultraviolet-irradiation methods. <i>Thin Solid Films</i> , 1999, 345, 244-254.	1.8	11
20	Recent Progress in Transition Metal-Catalyzed Reactions of Silicon, Germanium, and Tin. <i>Advances in Organometallic Chemistry</i> , 1999, 43, 197-265.	1.0	116
21	Formation and Interconversion of Ruthenium η^5 -Silene and 16-Electron Ruthenium Silyl Complexes. <i>Journal of the American Chemical Society</i> , 1999, 121, 8391-8392.	13.7	34
22	η^2 -Acetoxyethyl Silsesquioxanes: Chloride-Free Precursors for SiO ₂ Films Via Staged Hydrolysis. <i>Materials Research Society Symposia Proceedings</i> , 1999, 606, 251.	0.1	2
23	The Classical Structure of TaCp ₂ (H)(SiMe ₂ H) ₂ . <i>Journal of Chemical Research</i> , 1999, 23, 14-15.	1.3	0
24	Catalytic Synthesis of Poly(arylmethylgermanes) by Demethanative Coupling: A Mild Route to η^6 -Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 1998, 120, 9844-9849.	13.7	74
25	Catalytic C-H Bond Functionalization: Synthesis of Arylsilanes by Dehydrogenative Transfer Coupling of Arenes and Triethylsilane. <i>Organometallics</i> , 1998, 17, 1455-1457.	2.3	133
26	Staged development of modified silicon dioxide films. <i>Journal of Sol-Gel Science and Technology</i> , 1997, 8, 465-469.	2.4	8
27	Ruthenium-Catalyzed Demethanative Coupling of HGeMe ₃ : A High Yield Route to Polygermanes. <i>Journal of the American Chemical Society</i> , 1996, 118, 9430-9431.	13.7	81
28	Structure and reactivity of Cp ₂ Zr(η^2 -Me ₂ Si \rightarrow NtBu)(CO): An unusual silanimine carbonyl complex with extensive π -back-bonding. <i>Polyhedron</i> , 1995, 14, 45-55.	2.2	45
29	Synthesis, Structure, and C-H Bond Activation Chemistry of (η^6 -arene)Ru(H) ₂ (SiMe ₃) ₂ Complexes. <i>Organometallics</i> , 1994, 13, 2551-2553.	2.3	55
30	Transfer dehydrogenative coupling of triethylsilane catalysed by ruthenium and rhodium complexes. A new Si-C bond forming process. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 1897-1898.	2.0	41
31	Agostic β -silicon-hydrogen interactions in silylamido complexes of zirconocene. <i>Journal of the American Chemical Society</i> , 1994, 116, 177-185.	13.7	118
32	Reactions of carbon dioxide and carbon disulfide with η^2 -silanimine complexes of zirconium: facile deoxygenation and desulfurization reactions. <i>Organometallics</i> , 1993, 12, 3087-3093.	2.3	47
33	η^2 -Silanimine complexes of zirconocene: synthesis, structure, and reactivity of Cp ₂ Zr(η^2 -SiMe ₂ -N-tert-Bu)(PMe ₃). <i>Journal of the American Chemical Society</i> , 1991, 113, 1870-1872.	13.7	52
34	Dehydrogenative coupling of trialkylsilanes mediated by ruthenium phosphine complexes: catalytic synthesis of carbosilanes. <i>Journal of the American Chemical Society</i> , 1991, 113, 4039-4040.	13.7	62
35	Reactivity of molybdenum and tungsten disilene complexes. <i>Polyhedron</i> , 1991, 10, 1189-1201.	2.2	52
36	Disilene complexes of molybdenum and tungsten. <i>Journal of the American Chemical Society</i> , 1990, 112, 452-453.	13.7	92

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37	Structure and reactivity of Cp ₂ W(η ² -Me ₂ Si:CH ₂), a tungsten silene complex. Journal of the American Chemical Society, 1990, 112, 6405-6406.	13.7	80
38	Alkylidene-transfer processes in the reactions of Cp ₂ Ta(:CH ₂)(CH ₃) with silanes. Organometallics, 1990, 9, 2952-2962.	2.3	45
39	Selective hydrogen-deuterium exchange in alkylsilanes catalyzed by osmium phosphine complexes: the first evidence for β-hydrogen elimination from a metal silyl. Journal of the American Chemical Society, 1989, 111, 4099-4100.	13.7	39
40	Reversible reduction of coordinated carbon monoxide by permethylzirconocene hydrides. Synthesis and reactivity of a bridging diruthenium zirconoxy carbene complex. Polyhedron, 1988, 7, 759-766.	2.2	18
41	Dimethylsilylene insertion into tantalum-hydride bonds. Journal of the American Chemical Society, 1987, 109, 6210-6212.	13.7	33
42	Carbon-carbon bond formation by reductive coupling of two carbonyl ligands of binuclear transition metal complexes. Journal of the American Chemical Society, 1982, 104, 4712-4715.	13.7	72
43	Organocobalt cluster complexes XXXI. the reactions of bromo- and chloro- methylidynetricobalt nonacarbonyl with thiols and lithium thiolates. Journal of Organometallic Chemistry, 1980, 187, 91-102.	1.8	9