

# Donald H Berry

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/828998/publications.pdf>

Version: 2024-02-01

43  
papers

1,741  
citations

201674

27  
h-index

265206

42  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1088  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Agostic $\beta$ -silicon-hydrogen interactions in silylamido complexes of zirconocene. <i>Journal of the American Chemical Society</i> , 1994, 116, 177-185.	13.7	118
3	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
4	Disilene complexes of molybdenum and tungsten. <i>Journal of the American Chemical Society</i> , 1990, 112, 452-453.	13.7	92
5	Ruthenium-Catalyzed Demethanative Coupling of HGeMe <sub>3</sub> : A High Yield Route to Polygermanes. <i>Journal of the American Chemical Society</i> , 1996, 118, 9430-9431.	13.7	81
6	Structure and reactivity of Cp <sub>2</sub> W( $\eta$ -2-Me <sub>2</sub> Si:CH <sub>2</sub> ), a tungsten silene complex. <i>Journal of the American Chemical Society</i> , 1990, 112, 6405-6406.	13.7	80
7	Catalytic Synthesis of Poly(arylmethylgermanes) by Demethanative Coupling: A Mild Route to $\pi$ -Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 1998, 120, 9844-9849.	13.7	74
8	Carbon-carbon bond formation by reductive coupling of two carbonyl ligands of binuclear transition metal complexes. <i>Journal of the American Chemical Society</i> , 1982, 104, 4712-4715.	13.7	72
9	Synthesis and Structure of Ruthenium Silylene Complexes: Activation of Si-Cl Bonds in N-Heterocyclic Silanes. <i>Journal of the American Chemical Society</i> , 2006, 128, 6038-6039.	13.7	71
10	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
11	Synthesis, Structure, and C-H Bond Activation Chemistry of ( $\eta$ -6-arene)Ru(H) <sub>2</sub> (SiMe <sub>3</sub> ) <sub>2</sub> Complexes. <i>Organometallics</i> , 1994, 13, 2551-2553.	2.3	55
12	$\eta$ -2-Silanimine complexes of zirconocene: synthesis, structure, and reactivity of Cp <sub>2</sub> Zr( $\eta$ -2-SiMe <sub>2</sub> :N- <i>tert</i> -Bu)(PMe <sub>3</sub> ). <i>Journal of the American Chemical Society</i> , 1991, 113, 1870-1872.	13.7	52
13	Reactivity of molybdenum and tungsten disilene complexes. <i>Polyhedron</i> , 1991, 10, 1189-1201.	2.2	52
14	Synthesis and Reactivity of Silyl Ruthenium Complexes: The Importance of Trans Effects in C-H Activation, Si-C Bond Formation, and Dehydrogenative Coupling of Silanes. <i>Journal of the American Chemical Society</i> , 2003, 125, 8043-8058.	13.7	51
15	Low-Valent Ruthenium Complexes of the Non-innocent 2,6-Bis(imino)pyridine Ligand. <i>Organometallics</i> , 2010, 29, 591-603.	2.3	51
16	Reactions of carbon dioxide and carbon disulfide with $\eta$ -2-silanimine complexes of zirconium: facile deoxygenation and desulfurization reactions. <i>Organometallics</i> , 1993, 12, 3087-3093.	2.3	47
17	Alkylidene-transfer processes in the reactions of Cp <sub>2</sub> Ta( $\pi$ -CH <sub>2</sub> )(CH <sub>3</sub> ) with silanes. <i>Organometallics</i> , 1990, 9, 2952-2962.	2.3	45
18	Structure and reactivity of Cp <sub>2</sub> Zr( $\eta$ -2-Me <sub>2</sub> Si $\rightarrow$ NtBu)(CO): An unusual silanimine carbonyl complex with extensive $\pi$ -back-bonding. <i>Polyhedron</i> , 1995, 14, 45-55.	2.2	45

#	ARTICLE	IF	CITATIONS
19	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
20	Selective hydrogen-deuterium exchange in alkylsilanes catalyzed by osmium phosphine complexes: the first evidence for .beta.-hydrogen elimination from a metal silyl. <i>Journal of the American Chemical Society</i> , 1989, 111, 4099-4100.	13.7	39
21	Structure and Reactivity of Bis(silyl) Dihydride Complexes (PMe <sub>3</sub> ) <sub>3</sub> Ru(SiR <sub>3</sub> ) <sub>2</sub> (H) <sub>2</sub> : A Model Compounds and Real Intermediates in a Dehydrogenative C-Si Bond Forming Reaction. <i>Journal of the American Chemical Society</i> , 2003, 125, 8936-8948.	13.7	37
22	Synthesis and Properties of Hybrid Organic-Inorganic Materials Containing Covalently Bonded Luminescent Polygermanes. <i>Chemistry of Materials</i> , 2005, 17, 157-163.	6.7	35
23	Formation and Interconversion of Ruthenium-Silene and 16-Electron Ruthenium Silyl Complexes. <i>Journal of the American Chemical Society</i> , 1999, 121, 8391-8392.	13.7	34
24	Access to Unsaturated Ruthenium Complexes via Phosphine Complexation with Triphenylborane: Synthesis and Structure of a Zwitterionic Arene Complex, (1-6-Ph-BPh <sub>2</sub> H)Ru(PMe <sub>3</sub> ) <sub>2</sub> (SiMe <sub>3</sub> ). <i>Organometallics</i> , 2000, 19, 3374-3378.	2.3	34
25	Dimethylsilylene insertion into tantalum-hydride bonds. <i>Journal of the American Chemical Society</i> , 1987, 109, 6210-6212.	13.7	33
26	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
27	Tandem C-H Activation/Si-H Elimination Reactions: Stabilization of C-H Activation Products by $\eta^2$ -Agostic Si-H Interactions. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3947-3949.	13.8	28
28	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
29	Structure and Reactivity of Acetylene Complexes of Bis(imino)pyridine Ruthenium(0). <i>Organometallics</i> , 2011, 30, 2125-2136.	2.3	24
30	Reversible reduction of coordinated carbon monoxide by permethylzirconocene hydrides. Synthesis and reactivity of a bridging diruthenium zirconoxy carbene complex. <i>Polyhedron</i> , 1988, 7, 759-766.	2.2	18
31	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
32	Organocobalt cluster complexes XXXI. the reactions of bromo- and chloro- methylidynetricobalt nonacarbonyl with thiols and lithium thiolates. <i>Journal of Organometallic Chemistry</i> , 1980, 187, 91-102.	1.8	9
33	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
34	Staged development of modified silicon dioxide films. <i>Journal of Sol-Gel Science and Technology</i> , 1997, 8, 465-469.	2.4	8
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	$\hat{1}^2$ -Acetoxyethyl Silsesquioxanes: Chloride-Free Precursors for SiO <sub>2</sub> Films Via Staged Hydrolysis. <i>Materials Research Society Symposia Proceedings</i> , 1999, 606, 251.	0.1	2
39	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
40	Sodium and Potassium Cyclopentadienide. <i>Inorganic Syntheses</i> , 2014, , 35-37.	0.3	1
41	trans -1,1-Di-tert -Butyl-2,3-Dimethylsilirane and 2,2-Di-tert -Butyl-1,1,1-Triethylidisilane. <i>Inorganic Syntheses</i> , 2007, , 81-85.	0.3	0
42	The Classical Structure of TaCp <sub>2</sub> (H)(SiMe <sub>2</sub> H) <sub>2</sub> . <i>Journal of Chemical Research</i> , 1999, 23, 14-15.	1.3	0
43	Oxidative Addition of Silicon $\hat{1}$ 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