

# Russell P Hughes

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3301354/publications.pdf>

Version: 2024-02-01

191  
papers

5,511  
citations

81900

39  
h-index

133252

59  
g-index

194  
all docs

194  
docs citations

194  
times ranked

4110  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible Light Switching of a BF <sub>2</sub> -Coordinated Azo Compound. <i>Journal of the American Chemical Society</i> , 2012, 134, 15221-15224.	13.7	209
2	Near-Infrared Light Activated Azo-BF <sub>2</sub> Switches. <i>Journal of the American Chemical Society</i> , 2014, 136, 13190-13193.	13.7	173
3	A switching cascade of hydrazone-based rotary switches through coordination-coupled proton relays. <i>Nature Chemistry</i> , 2012, 4, 757-762.	13.6	171
4	Dearomative Indole (3 + 2) Reactions with Azaoxyallyl Cations – New Method for the Synthesis of Pyrroloindolines. <i>Journal of the American Chemical Society</i> , 2015, 137, 14861-14864.	13.7	164
5	Dearomative Indole (3 + 2) Cycloaddition Reactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 6288-6296.	13.7	141
6	Selective Solubility of Organometallic Complexes in Saturated Fluorocarbons. Synthesis of Cyclopentadienyl Ligands with Fluorinated Ponytails. <i>Organometallics</i> , 1996, 15, 286-294.	2.3	116
7	Conversion of Carbon–Fluorine Bonds to Transition Metal Centers to Carbon–Hydrogen, Carbon–Carbon, and Carbon–Heteroatom Bonds. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 4591-4606.	2.0	105
8	Organo-Transition Metal Compounds Containing Perfluorinated Ligands. <i>Advances in Organometallic Chemistry</i> , 1990, , 183-267.	1.0	102
9	Topochemical Synthesis of Single-Crystalline Hydrogen-Bonded Cross-Linked Organic Frameworks and Their Guest-Induced Elastic Expansion. <i>Journal of the American Chemical Society</i> , 2019, 141, 10915-10923.	13.7	92
10	Cyanide Detection Using a Triazolopyridinium Salt. <i>Organic Letters</i> , 2013, 15, 2386-2389.	4.6	79
11	π-Stacking between Pentafluorophenyl and Phenyl Groups as a Controlling Feature of Intra- and Intermolecular Crystal Structure Motifs in Substituted Ferrocenes. Observation of Unexpected Face-to-Face Stacking between Pentafluorophenyl Rings. <i>Chemistry of Materials</i> , 2000, 12, 1604-1610.	6.7	76
12	Synthesis and characterization of cationic iron vinylidene compounds: formation of carbon-hydrogen, carbon-nitrogen and carbon-phosphorus bonds and the x-ray crystal structure of [Fe(.eta.-C5H5)(CO)(PPh3) {C(PPh3):CH2}] <sup>+</sup> BF <sub>4</sub> <sup>-</sup> . <i>Organometallics</i> , 1982, 1, 628-634.	2.3	75
13	Reactions of the cationic iron vinylidene compounds [Fe(.eta.-C5H5)(CO)(PPh3)(C:CH2)] <sup>+</sup> BF <sub>4</sub> <sup>-</sup> with oxygen-hydrogen, nitrogen-hydrogen, sulfur-hydrogen, and chlorine-hydrogen bonds and carbon-carbon triple bonds. <i>Organometallics</i> , 1982, 1, 635-639.	2.3	67
14	[Ru(.eta.5-C5Me5)(.eta.5-C5F5)]: the first transition-metal complex containing a perfluorocyclopentadienyl ligand. <i>Journal of the American Chemical Society</i> , 1992, 114, 5895-5897.	13.7	62
15	Tuning the fluoros partition coefficients of organometallic complexes. The synthesis and characterization of [1-5-C5H4CH2CH2(CF2)9CF3]Rh(CO)L (L = CO or P[CH2CH2(CF2)5CF3]3) and Cl2Ni{P[CH2CH2(CF2)5CF3]3}2. <i>Inorganic Chemistry Communication</i> , 1998, 1, 197-199.	3.9	60
16	Hydrogenolysis of Aliphatic Carbon–Fluorine Bonds in Fluoroalkyl–Iridium Complexes to Give Hydrofluorocarbons. <i>Journal of the American Chemical Society</i> , 1999, 121, 6084-6085.	13.7	56
17	Synthesis and Structure of Intermediates in Copper-Catalyzed Alkylation of Diphenylphosphine. <i>Inorganic Chemistry</i> , 2010, 49, 7650-7662.	4.0	56
18	Building Strain with Large Macrocycles and Using It To Tune the Thermal Half-Lives of Hydrazone Photochromes. <i>Journal of the American Chemical Society</i> , 2018, 140, 11829-11835.	13.7	56

#	ARTICLE	IF	CITATIONS
19	Facile Activation of Carbon-Fluorine Bonds in Saturated Fluoroalkyl Ligands by Coordinated Water in Fluoroalkyl Aqua Complexes of Rhodium. <i>Journal of the American Chemical Society</i> , 1997, 119, 11544-11545.	13.7	55
20	A Simple Route to Difluorocarbene and Perfluoroalkylidene Complexes of Iridium. <i>Journal of the American Chemical Society</i> , 2005, 127, 15020-15021.	13.7	55
21	Iridium and Rhodium Complexes Containing Fluorinated Phenyl Ligands and Their Transformation to $\eta^2$ -Benzynes Complexes, Including the Parent Benzyne Complex $\text{IrCp}^*(\text{PMe}_3)(\text{C}_6\text{H}_4)$ . <i>Organometallics</i> , 2002, 21, 4873-4885.	2.3	51
22	Unusual Reactivity of $\eta^6$ -Proton Sponges as a Hydride Donor to Transition Metals: Synthesis and Structural Characterization of Fluoroalkyl(hydrido) Complexes of Iridium(III) and Rhodium(III). <i>Organometallics</i> , 2001, 20, 3190-3197.	2.3	50
23	Transition metal promoted reactions of unsaturated hydrocarbons. <i>Journal of Organometallic Chemistry</i> , 1973, 60, 409-425.	1.8	48
24	Crystal and molecular structure of a five-coordinate rhodium(I)-diene complex and the correlation of structural parameters with carbon-13 nuclear magnetic resonance shifts. <i>Inorganic Chemistry</i> , 1977, 16, 314-319.	4.0	48
25	What Controls Regiochemistry in 1,3-Dipolar Cycloadditions of $\text{M}^{1/4}\text{N}^3\text{C}^2\text{O}^1$ with Nitrostyrenes?. <i>Organic Letters</i> , 2013, 15, 5218-5221.	4.6	47
26	Synthesis and Molecular Structure of $[\text{Ru}(\eta^5\text{-C}_5\text{H}_5)(\eta^5\text{-C}_5\text{F}_5)]$ . Intramolecular Structural Comparison of the Cyclopentadienyl Ligand with its Perfluorinated Analog. <i>Organometallics</i> , 1994, 13, 1567-1568.	2.3	46
27	Bonding Analysis of $\text{TM}(\text{cAAC})_2$ (TM = Cu, Ag, and Au) and the Importance of Reference State. <i>Organometallics</i> , 2015, 34, 3442-3449.	2.3	46
28	Chloropalladation of alkyl-substituted methylenecyclopropanes. <i>Journal of the American Chemical Society</i> , 1982, 104, 5369-5379.	13.7	45
29	Iridium-Promoted Reactions of Carbon-Carbon Bonds. Skeletal Rearrangement of a Vinylcyclopropene during Iridacyclohexadiene Formation and Subsequent Isomerization of Iridacyclohexadienes via $\eta^2$ -Substituent Migrations. <i>Journal of the American Chemical Society</i> , 2000, 122, 2261-2271.	13.7	44
30	Reductive Activation of Carbon-Fluorine Bonds in Perfluoroalkyl Ligands: An Unexpected Route to the Only Known Tetrafluorobutatriene Transition Metal Complex: $\text{Ir}(\eta^5\text{-C}_5\text{Me}_5)(\text{PMe}_3)(2,3\text{-}\eta^2\text{-CF}_2\text{CCCCF}_2)$ . <i>Journal of the American Chemical Society</i> , 2004, 126, 2308-2309.	13.7	44
31	Does $\eta^2$ -Fluorination Affect the Structural trans-Influence and Kinetic trans-Effect of an Alkyl Ligand? Molecular Structures of $\text{Pd}(\text{TMEDA})(\text{CH}_3)(\text{RF})$ and a Kinetic Study of the trans to cis Isomerization of $\text{Pt}(\text{TMEDA})(\text{CH}_3)_2(\text{RF})$ [RF = $\text{CF}_2\text{CF}_3$ , $\text{CFHCF}_3$ , $\text{CH}_2\text{CF}_3$ ]. <i>Inorganic Chemistry</i> , 2004, 43, 747-756.	4.0	44
32	Competitive C-H and C-C activation in the reaction of pentamethylcyclopentadiene with decacarbonyldimanganese. <i>Organometallics</i> , 1986, 5, 2391-2392.	2.3	43
33	A Masked Phosphinidene Trapped in a Fluxional NCN Pincer. <i>Chemistry - A European Journal</i> , 2016, 22, 17562-17565.	3.3	42
34	Transition metal promoted reactions of unsaturated hydrocarbons. <i>Journal of Organometallic Chemistry</i> , 1973, 60, 387-407.	1.8	41
35	Activation of a fluorinated carbon-carbon bond by oxidative addition of tetrafluorocyclopropene to platinum(0). The first example of a perfluorometallacyclobutene. <i>Organometallics</i> , 1988, 7, 2239-2241.	2.3	41
36	Reactions of Iridium and Rhodium Complexes Containing $\eta^2$ -Benzynes, $\eta^2$ -Tetrafluorobenzynes, and $\eta^2$ -Trifluorobenzynes Ligands. Differential Rates of Arene Elimination by Protonation of Isomeric Fluoroaryl Complexes and Restricted Rotation of $\text{PMe}_3$ Ligands in ortho-Iodo and ortho-Bromoaryl Complexes. <i>Organometallics</i> , 2003, 22, 2134-2141.	2.3	41



#	ARTICLE	IF	CITATIONS
55	Heterocycles Derived from Generating Monovalent Pnictogens within NCN Pincers and Bidentate NC Chelates: Hypervalency versus Bell-Clappers versus Static Aromatics. <i>Organometallics</i> , 2018, 37, 2481-2490.	2.3	33
56	Carbon-Fluorine Bond Activation Coupled with Carbon-Carbon Bond Formation at Iridium. Confirmation of Complete Kinetic Diastereoselectivity at the New Carbon Stereocenter by Intramolecular Trapping Using Vinyl as the Migrating Group. <i>Journal of the American Chemical Society</i> , 2005, 127, 6325-6334.	13.7	32
57	Cationic Two-Coordinate Complexes of Pd(I) and Pt(I) Have Longer Metal-Ligand Bonds Than Their Neutral Counterparts. <i>CheM</i> , 2016, 1, 902-920.	11.7	31
58	Synthetic nat- or ent-steroids in as few as five chemical steps from epichlorohydrin. <i>Nature Chemistry</i> , 2018, 10, 70-77.	13.6	31
59	Syntheses and crystallographic studies of $[\text{Ir}(\eta^5\text{-C}_5\text{Me}_5)(\text{L})(\text{RF})\text{I}]$ (L = CO, PMe <sub>3</sub> ; RF = CF <sub>2</sub> CF <sub>3</sub> , CF <sub>2</sub> CF <sub>2</sub> CF <sub>3</sub> ), <i>TJ ETQq1 Dalton Transactions RSC</i> , 2000, , 873-880.	2.3	30
60	Water, water, everywhere. Synthesis and structures of perfluoroalkyl rhodium and iridium(III) compounds containing water ligands. <i>Dalton Transactions RSC</i> , 2001, , 2270-2278.	2.3	30
61	Cationic Iridium-Perfluoroalkyl Complexes with NH <sub>3</sub> and PH <sub>3</sub> Ligands. Activation of Carbon-Fluorine Bonds by H <sub>2</sub> S To Give Bis(trifluoromethyl)dithiametallacyclobutane and Bis(trifluoromethyl)trithiametallacyclohexane Complexes. <i>Organometallics</i> , 2002, 21, 2136-2144.	2.3	30
62	Synthesis of Phosphine-Ligated Zinc Acetylide Dimers: Enhanced Reactivity in Carbonyl Additions. <i>Organometallics</i> , 2011, 30, 5214-5221.	2.3	30
63	A <sup>13</sup> C and <sup>1</sup> H NMR investigation of the bonding in norbornenyl complexes of palladium(II) and platinum(II). <i>Journal of Organometallic Chemistry</i> , 1973, 60, 427-441.	1.8	28
64	Transition-metal-promoted activation of carbon-carbon bonds. A new synthetic route to substituted ruthenocene derivatives via ring expansion reactions of 3-vinyl-1-cyclopropenes. <i>Organometallics</i> , 1989, 8, 1015-1019.	2.3	28
65	Conversion of Perfluorobenzyl Complexes of Rhodium to Fluorinated Oxarhodacycles. <i>Organometallics</i> , 2001, 20, 363-366.	2.3	28
66	Selective Protonation at a C-F Bond in the Presence of an Iridium-Methyl Bond Gives Diastereoselective Carbon-Fluorine Bond Activation and Carbon-Carbon Bond Formation. A New Path to Carbon Stereocenters Bearing Fluorine Atoms. <i>Organometallics</i> , 2002, 21, 4902-4904.	2.3	28
67	The Simplest Binary Fluorocarbon as a Ligand. Synthetic, Spectroscopic, Crystallographic, and Computational Studies of a Molybdenum Complex of Terminally Ligated Carbon Monofluoride (Fluoromethylidyne). <i>Journal of the American Chemical Society</i> , 2006, 128, 7454-7455.	13.7	28
68	Synthesis and Structural Characterization of (Perfluoroalkyl)fluoroiridium(III) and (Perfluoroalkyl)methyliridium(III) Compounds. <i>Organometallics</i> , 2006, 25, 3474-3480.	2.3	28
69	Effect of polyfluorination on ring inversion barriers for cyclooctatetraenes. Transition-metal compounds of unsaturated, polyfluorinated cycloaliphatics. Crystal and molecular structures of $[\text{Fe}(\eta^5\text{-C}_5\text{R}_5)(\eta^1\text{-heptafluorocycloocta-1,3,5,7-tetraenyl})(\text{CO})_2]$ (R = H, Me), $[\{\text{Fe}(\eta^5\text{-C}_5\text{H}_5)(\text{CO})_2\}_2(\mu_2\text{-}(1,5\text{-}\eta^1\text{-hexafluorocycloocta-1,3,5,7-tetraenediyl}))]$ , and $[\text{M}(\eta^5\text{-C}_5\text{R}_5)(\eta^1\text{-heptafluorocycloocta-1,3,5,7-tetraenyl})(\text{CO})_2]$ . <i>Organometallics</i> , 1998, 17, 2732-2745.	2.3	27
70	Conformational Analysis and Assignments of Relative Stereocenter Configurations in Fluoroalkyl-Iridium Complexes Using <sup>19</sup> F{ <sup>1</sup> H} HOESY Experiments. Comparison with Solid-State X-ray Structural Results. <i>Journal of the American Chemical Society</i> , 2004, 126, 6169-6178.	13.7	27
71	Synthesis and structure of ferrocenylmethylphosphines, their borane adducts, and some related derivatives. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 2279-2289.	1.8	27
72	Stereoselective oxidative additions of a carbon-carbon sigma-bond in tetrafluorocyclopropene to iridium(I) complexes. <i>Journal of the American Chemical Society</i> , 1989, 111, 8919-8920.	13.7	26

#	ARTICLE	IF	CITATIONS
73	Oxidative addition of cyclopropenyl cations to zerovalent molybdenum and tungsten centers. Synthesis of $\eta^3$ -cyclopropenyl and $\eta^3$ -oxocyclobutenyl complexes of molybdenum(II) and tungsten(II). Crystal and molecular structures of $[\text{Mo}(\eta^5\text{-C}_5\text{H}_5)(\eta^3\text{-C}_3\text{Ph}_2\text{R})(\text{CO})_2]$ (R = Ph). <i>Tj ETQq1 1 0.784314 rgB7</i> Overlock	2.3	25
74	An $\eta^2$ -tetrafluoroethylene)ruthenium complex with a metallacyclopropane structure but with a low barrier to propellor rotation. <i>Journal of the American Chemical Society</i> , 1992, 114, 3153-3155.	13.7	25
75	Synthesis and Molecular Structure of a Perfluoroalkyl Complex of Platinum Containing a PCP Pincer Ligand. <i>Organometallics</i> , 2001, 20, 4741-4744.	2.3	25
76	$\alpha$ -Carbon-hydrogen and $\alpha'$ -carbon-carbon bond cleavage in an iridacyclohexadiene. Interchange of $\alpha$ -hydrogen and $\alpha'$ -phenyl substituents without accompanying skeletal rearrangement. <i>Journal of the American Chemical Society</i> , 1993, 115, 1583-1585.	13.7	24
77	Facile propeller rotation in metallacyclopropanes. Synthesis and dynamic behavior of new tetrafluoroethylene-ruthenium complexes. Crystal and molecular structures of $[\text{Ru}(\eta^5\text{-C}_5\text{Me}_5)\text{Cl}(\eta^2\text{-C}_2\text{F}_4)]_2$ . <i>Organometallics</i> , 1993, 12, 3102-3108.	2.3	24
78	Synthesis, Reactivity, and Resolution of a <i>C</i> <sub>2</sub> -Symmetric, Pâ€“Stereogenic Benzodiphosphetane, a Building Block for Chiral Bis(phosphines). <i>Organic Letters</i> , 2012, 14, 4238-4241.	4.6	24
79	<del>Synthesis, structures, and solution dynamics of mononuclear and dinuclear (<math>\eta^5</math>-indenyl)rhodium</del> complexes of octafluorocyclooctatetraene. Crystal and molecular structures of $[\text{Rh}(\eta^5\text{-C}_9\text{H}_7)(1,2,5,6\text{-}\eta^4\text{-C}_8\text{F}_8)]$ , $[[\text{Rh}(\eta^5\text{-C}_9\text{H}_7)]_2[\mu\text{-}(1,5,6\text{-}\eta^2\text{-}2\text{-}4\text{-}\eta^4\text{-C}_8\text{F}_8)](\text{Rh-Rh})]$ , $[[\text{Rh}(\eta^5\text{-C}_9\text{H}_7)]_2[\mu\text{-}(1,5,6\text{-}\eta^2\text{-}2\text{-}4\text{-}\eta^4\text{-C}_8\text{F}_7\text{H})](\text{Rh-Rh})]$ , and		

#	ARTICLE	IF	CITATIONS
91	2-Cyclopropene-1-carbonyl compounds of rhenium, manganese, and iron. A facile route to nonfluxional 3-eta.1-cyclopropenyl compounds of rhenium. <i>Journal of the American Chemical Society</i> , 1982, 104, 4842-4846.	13.7	21
92	Gas-phase and solution studies of the oxidation of the first perfluorocyclopentadienyl complex, [Ru(eta.5-C5Me5)(eta.5-C5F5)]. <i>Organometallics</i> , 1993, 12, 613-615.	2.3	21
93	Preparation and dynamic behavior of eta.3-cyclopropenyl complexes of cobalt, rhodium, and iridium. Crystal and molecular structure of [Ir(eta.3-C3tBu3)(CO)3]. <i>Organometallics</i> , 1993, 12, 3069-3074.	2.3	21
94	Preparation of the 1,2-Di-tert-Butylcyclopentadienyl Anion and a Transition Metal Derivative. Crystal Structure of 1,1',2,2'-Tetra-tert-butylferrocene. <i>Organometallics</i> , 1994, 13, 2691-2695.	2.3	21
95	Skeletal Rearrangement during Rhodium-Promoted Ring Opening of 1,2-Diphenyl-3-vinyl-1-cyclopropene. Preparation and Characterization of 1,2- and 2,3-Diphenyl-3,4-pentadienediyl Rhodium Complexes and Their Ring Closure to a 1,2-Diphenylcyclopentadienyl Complex. <i>Organometallics</i> , 1999, 18, 2766-2772.	2.3	21
96	Synthesis of Gold Phosphido Complexes Derived from Bis(secondary) Phosphines. Structure of Tetrameric [Au(MesP(CH <sub>2</sub> ) <sub>2</sub> ) <sub>2</sub> (PMe)Au) <sub>4</sub> . <i>Inorganic Chemistry</i> , 2010, 49, 3950-3957.	4.0	21
97	Inversion of Configuration at the Phosphorus Nucleophile in the Diastereoselective and Enantioselective Synthesis of P-sterogenic syn-Phosphiranes from Chiral Epoxides. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5047-5051.	13.8	21
98	Chiral Bis(Phospholane) PCP Pincer Complexes: Synthesis, Structure, and Nickel-Catalyzed Asymmetric Phosphine Alkylation. <i>Organometallics</i> , 2018, 37, 2159-2166.	2.3	21
99	Activation of metal-acyl oxygen atoms by triflic anhydride: a simple synthetic route to reactive cationic vinylidene complexes. <i>Journal of Organometallic Chemistry</i> , 1979, 172, C29-C32.	1.8	20
100	Chloropalladation of phenyl-substituted methylenecyclopropanes. <i>Journal of the American Chemical Society</i> , 1982, 104, 5380-5383.	13.7	20
101	Reactions of cyclopropenyl cations with Group VIB metal carbonyl anions. Synthesis of eta.3-oxocyclobutenyl complexes of chromium, molybdenum, and tungsten. <i>Organometallics</i> , 1985, 4, 1761-1766.	2.3	20
102	Synthesis, structures, and conformational dynamics of dicobalt complexes containing the hexafluorodidehydrocyclooctatetraene (hexafluorocycloocta-3,5,7-trien-1-yne) ligand. Crystal and molecular structures of [(Co(L)(CO)2)2(mu.2-(1-eta.,2-eta.)-C8F6)] (L = CO, PPh3, PPhMe2, PMe3). <i>Organometallics</i> , 1990, 9, 2745-2753.	2.3	20
103	Stereoselective ring expansion of 3-vinyl-1-cyclopropenes to give (eta.5-cyclopentadienyl)ruthenium and (eta.4-cyclohexadienone)iron complexes. Exclusion of planar metallacyclohexadiene intermediates and relevance to the Doetz reaction. <i>Organometallics</i> , 1995, 14, 4319-4324.	2.3	20
104	Oxidative addition reaction of perfluoro-n-butyl iodide to (COD)PtMe2 to give (COD)PtMe(nC4F9).. <i>Polyhedron</i> , 2002, 21, 2357-2360.	2.2	20
105	Mechanism of rhodium-promoted conversion of 3-vinyl-1-cyclopropenes to 1,3-cyclopentadienes. Stereochemistry of the carbon-carbon bond-forming step. <i>Journal of the American Chemical Society</i> , 1990, 112, 7076-7077.	13.7	19
106	Steric congestion in a cyclopentadienyl ligand bearing tert-butyl groups on three contiguous carbon atoms: crystal and molecular structure of (eta.5-1,2,3-tri-tert-butylcyclopentadienyl)(eta.5-indenyl)rhodium(III) hexafluorophosphate. <i>Organometallics</i> , 1992, 11, 64-69.	2.3	19
107	Electron distribution and bonding in eta.3-cyclopropenyl-metal complexes. <i>Organometallics</i> , 1993, 12, 2025-2031.	2.3	19
108	Synthesis and structural characterization of group 6 transition metal complexes with terminal fluoromethylidyne (CF) ligands; a DFT/NBO/NRT comparison of bonding characteristics of terminal NO, CF and CH ligands. <i>Dalton Transactions</i> , 2011, 40, 47-55.	3.3	19

#	ARTICLE	IF	CITATIONS
109	Cobalt complexes of hexafluorodehydrocyclooctatetraene: synthesis and crystal and molecular structures of [Co(CO) <sub>3</sub> ] <sub>2</sub> (C <sub>8</sub> F <sub>6</sub> ) and [Co(CO) <sub>2</sub> (PPh <sub>3</sub> ) <sub>2</sub> ](C <sub>8</sub> F <sub>6</sub> ). <i>Organometallics</i> , 1984, 3, 1921-1922.	2.3	18
110	Kinetics of carbonyl substitution in reactions of $\eta^3$ -cyclopropenyl complexes of iron, cobalt, rhodium, and iridium with phosphorus ligands. First examples of a dissociative mechanism for CO substitution in the cobalt triad carbonyl complexes. <i>Journal of the American Chemical Society</i> , 1993, 115, 11312-11318.	13.7	18
111	Generation of Hydrofluoronickelacycles from Trifluoroethylene and Ni(0): Ligand Effects on Regio-/Stereoselectivity and Reactivity. <i>Journal of the American Chemical Society</i> , 2017, 139, 4075-4086.	13.7	18
112	A novel synthetic route to cyclobutadiene complexes of molybdenum and tungsten. Crystal and molecular structure of Mo( $\eta^3$ -C <sub>5</sub> H <sub>5</sub> )( $\eta^3$ -C <sub>4</sub> Ph <sub>3</sub> Me)(CO)(Cl). <i>Organometallics</i> , 1984, 3, 1761-1763.	2.3	17
113	Reactions of cyclopropenyl cations with tricarbonylnitrosylferrate(1-), tetracarbonylcobaltate(1-), and octacarbonyldicobalt. Synthesis and conformational and configurational stabilities of $\eta^3$ -cyclopropenyl and $\eta^3$ -oxocyclobutenyl complexes of iron and cobalt. Crystal and molecular structure of Fe( $\eta^3$ -C <sub>3</sub> Ph <sub>2</sub> -tert-Bu)(CO) <sub>2</sub> (NO). <i>Organometallics</i> , 1986, 5, 789-797.	2.3	17
114	Nickel, palladium, and platinum complexes derived from octafluorocyclooctatetraene. Synthesis of 1-2:5-6- $\eta^3$ -octafluorocyclooctatetraene complexes of nickel(0) and $\eta^2$ -2-octafluorobicyclo[3.3.0]octa-2,7-diene-4,6-diyl complexes of nickel(II), palladium(II), and platinum(II). <i>Organometallics</i> , 1990, 9, 838-844.	2.3	17
115	Stereoselective rhodium-promoted ring closure of an $\eta^3$ -4-1,3-pentadienediyl ligand to an $\eta^3$ -4-1,3-cyclopentadiene, with subsequent regiospecific endo-H migration: molecular structure of	2.3	17
116	The chloropalladation of 2,2-diphenylmethylenecyclopropanes. <i>Journal of Organometallic Chemistry</i> , 1980, 184, C67-C69.	1.8	16
117	Tin and thallium reagents for transfer of the 1,2-di-tert-butylcyclopentadienyl ligand to transition metals. <i>Inorganica Chimica Acta</i> , 1995, 240, 653-656.	2.4	16
118	Synthesis, molecular structures, and chemistry of some new palladium(ii) and platinum(ii) complexes with pentafluorophenyl ligands. <i>Dalton Transactions</i> , 2004, , 2720.	3.3	16
119	The First Example of a Bis(trifluoromethyl)carbene Transition-Metal Complex and Its Reduction to a Perfluoroallene Complex. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 4723-4725.	2.0	16
120	Coordination contributions to protein stability in metal-substituted carbonic anhydrase. <i>Journal of Biological Inorganic Chemistry</i> , 2016, 21, 659-667.	2.6	16
121	A novel transition metal-promoted rearrangement of a cyclopropenyl cation. Synthesis and crystal and molecular structure of a 1-3- $\eta^3$ -butadienyl complex of platinum. <i>Organometallics</i> , 1985, 4, 2055-2057.	2.3	15
122	Thallium(I) Selectively Abstracts Fluoride from a Tertiary Carbon-Fluorine Bond under Conditions Where Silver(I) Selectively Abstracts Iodide from Rhodium. <i>Journal of the American Chemical Society</i> , 1997, 119, 10231-10232.	13.7	15
123	Fluoroalkylation of cobalt complexes: selective reactions at the metal or the cyclopentadienyl ring. <i>Journal of Organometallic Chemistry</i> , 1997, 548, 109-112.	1.8	15
124	Serendipitous Discovery of a Simple Compound with an Unsupported Ir-Ir Bond. <i>Organometallics</i> , 2009, 28, 1575-1578.	2.3	15
125	Synthesis and Structural Characterization of New Perfluoroacyl and Perfluoroalkyl Group 6 Transition Metal Compounds. <i>Organometallics</i> , 2010, 29, 1948-1955.	2.3	15
126	Interactions of small organic rings with transition metals. Formation of $\eta^3$ -cyclobutenonyl complexes by the ring expansion of 2-cyclopropene-1-carbonyl metal species. <i>Journal of the American Chemical Society</i> , 1979, 101, 233-235.	13.7	14



#	ARTICLE	IF	CITATIONS
127	Stereochemical features of the 1,3-chloropalladation of bicyclic methylenecyclopropanes. <i>Journal of the American Chemical Society</i> , 1981, 103, 2428-2430.	13.7	14
128	Reinvestigations of some reactions of metal carbonyl anions with cyclopropenium cations. Conversion of $\eta^3$ -cyclopropenyl to $\eta^3$ -cyclobutenonyl ligands. <i>Organometallics</i> , 1982, 1, 1403-1405.	2.3	14
129	Octafluorocyclooctatetraene transition metal compounds: displacement of fluoride by metal carbonyl anions. <i>Journal of Organometallic Chemistry</i> , 1983, 250, c1-c4.	1.8	14
130	Synthesis of $\eta^6$ -octafluorocyclooctatetraene and $\eta^6$ -cyclooctatetraene complexes of manganese(I). Molecular structures of $[\text{Mn}(\eta^5\text{-C}_5\text{R}_5)(\eta^6\text{-C}_8\text{X}_8)]$ (R = H, Me, X = F; R = Me, X = H). <i>Organometallics</i> , 1989, 8, 1261-1269.	2.3	14
131	Selective Fluoroalkylation of Cyclopentadienyl and Ethylene Ligands in Reactions of Perfluoroalkyl Iodides with Low-Valent Complexes of Molybdenum and Tungsten: A Evidence for a Fluorocarbanion Mechanism. <i>Journal of the American Chemical Society</i> , 1997, 119, 5988-5989.	13.7	14
132	Unexpected Formation of an Organoplatinum(IV) Fluoride Complex in the Reaction of Pt(TMEDA)(CH <sub>3</sub> ) <sub>2</sub> with Perfluoro-sec-butyl Iodide. <i>Organometallics</i> , 2005, 24, 4845-4848.	2.3	14
133	Carbon-Fluorine Bond Activation Coupled with Alkynyl Migration to Give Fluorinated Allenyl Complexes of Iridium. <i>Organometallics</i> , 2006, 25, 3943-3947.	2.3	14
134	Octahedral perfluoroalkyl complexes of Ir(III) formed by oxidative addition of perfluoroalkyl iodides to Ir(acac)(CO) <sub>2</sub> . <i>Canadian Journal of Chemistry</i> , 2009, 87, 151-160.	1.1	14
135	Synthesis of a Tris(phosphaalkene)phosphine Ligand and Fundamental Organometallic Reactions on Its Sterically Shielded Metal Complexes. <i>Organometallics</i> , 2016, 35, 2224-2231.	2.3	14
136	Streamlined Preparation and Coordination Chemistry of Hybrid Phosphine-Phosphaalkene Ligands. <i>Organometallics</i> , 2016, 35, 855-859.	2.3	14
137	Synthesis and Molecular Structure of the First Example of an $\eta^4$ -Complex of Hexafluorobutadiene: $[\text{RuCl}(\eta^5\text{-C}_5\text{Me}_5)(\eta^4\text{-C}_4\text{F}_6)]$ . Structural Comparison of Coordinated Butadiene and Its Perfluorinated Analog. <i>Organometallics</i> , 1995, 14, 2407-2414.	2.3	13
138	Additivity of Fluorine Substituent Effects in Ruthenocene Ionization Energetics. <i>Organometallics</i> , 1997, 16, 149-150.	2.3	13
139	Experimental and Computational Evidence for 1,4-Diradical Intermediates in Reactions of Cobalt Fluorocarbene Complexes with Terminal Aryl-alkynes to give Metallacyclobutenes. <i>Organometallics</i> , 2017, 36, 2853-2860.	2.3	13
140	Unprecedented co-ordination of a cyclo-octatetraene ligand. Synthesis and crystal and molecular structure of $(\eta^5\text{-pentamethylcyclopentadienyl})(1,4\text{-}\eta^8\text{-octafluorocyclooctatetraene})(\text{trimethylphosphine})\text{rhodium(III)}$ . <i>Journal of the Chemical Society Chemical Communications</i> , 1986, .	2.0	12
141	Synthesis and dynamic NMR studies of $\eta^3$ -triphenyl- and $\eta^3$ -trimethylcyclopropenyl complexes of ruthenium, $[\text{Ru}(\eta^5\text{-C}_5\text{R}_5)(\eta^3\text{-C}_3\text{R}'_3)\text{X}_2]$ (R = H, Me; R' = Me, Ph; X = Cl, Br, I). Extended Hückel molecular orbital study of barriers to rotation of $\eta^3$ -cyclopropenyl ligands in isoelectronic ruthenium and molybdenum complexes. <i>Organometallics</i> , 1993, 12, 2258-2267.	2.3	12
142	Unusual rhodium promoted reaction of a vinylcyclopropene to give a cyclobutadiene ligand. Formation of $(\eta^5\text{-pentamethylcyclopentadienyl})\text{-}[\eta^4\text{-tri-}t\text{-butyl(methyl) cyclobutadiene}]\text{rhodium}$ . <i>Journal of Organometallic Chemistry</i> , 1994, 472, c18-c20.	1.8	12
143	A New Synthesis of 1,5-Di- <i>tert</i> -butyl-1,3-cyclopentadiene by Dehydration of an Epoxide and Characterization of its Diels-Alder Dimer. <i>Journal of Organic Chemistry</i> , 1996, 61, 401-404.	3.2	12
144	Diastereoselective Coordination of P-Stereogenic Secondary Phosphines in Copper(I) Chiral Bis(phosphine) Complexes: Structure, Dynamics, and Generation of Phosphido Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 8854-8865.	4.0	12

#	ARTICLE	IF	CITATIONS
145	Syntheses of cationic and zwitterionic cyclobutadiene compounds of cobalt(I). Crystal and molecular structure of tricarbonyl(.eta.-1-methoxy-3-methyl-2-phenylcyclobutadiene)cobalt(1+) hexafluorophosphate. <i>Organometallics</i> , 1982, 1, 812-819.	2.3	11
146	Synthesis and crystal and molecular structure of an .eta.-cyclopropene complex of molybdenum. <i>Organometallics</i> , 1985, 4, 241-244.	2.3	11
147	Reactions of (.eta.3-cyclopropenyl)iron complexes with tertiary phosphorus ligands. Competition between ligand substitution and cyclopropenyl migration to carbon monoxide followed by ring expansion to give oxocyclobutenyl ligands. <i>Organometallics</i> , 1986, 5, 797-804.	2.3	11
148	Synthesis and structural characterization of a coordinatively unsaturated ruthenium complex, Cp <sup>+</sup> -Ru(Ph <sub>2</sub> nacnac), and its CO adduct. <i>Polyhedron</i> , 2008, 27, 734-738.	2.2	11
149	Steric blocking of .eta.3 .fwdarw. .eta.1 .fwdarw. .eta.3 isomerizations of an .eta.3-allylic ligand. Crystal and molecular structures of 1,3-chloropalladation products of cis-9-methylenebicyclo[6.1.0]nonane and cis-7-methylenebicyclo[4.1.0]heptane. <i>Organometallics</i> , 1982, 1, 1221-1225.	2.3	10
150	Octafluorocyclooctatetraene transition-metal compounds. Novel transannular ring closures and a formal intramolecular redox equilibrium between 1,2,5,6-.eta. and 1,2,3,6-.eta. ligands. <i>Organometallics</i> , 1983, 2, 195-197.	2.3	10
151	Pentamethylcyclopentadienyl cobalt and rhodium complexes of octafluorocyclooctatetraene. Photochemical and thermal interconversion of 1,2,5,6-.eta.- and 1,2,3,6-.eta.-C <sub>8</sub> F <sub>8</sub> isomers. Electrochemical and ESR characterization of the 19-electron radical anion [Co(.eta.-C <sub>5</sub> Me <sub>5</sub> )(1,2,5,6-.eta.-C <sub>8</sub> F <sub>8</sub> )] <sup>-</sup> . <i>Organometallics</i> , 1987, 6, 611-616.	2.3	10
152	Molecular Structure of Ru(̂-C <sub>5</sub> Me <sub>5</sub> )(̂-C <sub>5</sub> F <sub>5</sub> ) by Gas-Phase Electron Diffraction and Density Functional Theory. <i>Organometallics</i> , 2002, 21, 4840-4846.	2.3	10
153	Synthesis and structural studies of perfluoroalkyl-rhodium and iridium(iii) compounds containing tris(pyrazolyl)borate ligands. <i>Dalton Transactions RSC</i> , 2002, , 3245-3252.	2.3	10
154	Synthesis and molecular structures of platinum(II) and platinum(IV) diimine complexes possessing fluoroalkyl ligands. <i>Canadian Journal of Chemistry</i> , 2003, 81, 1270-1279.	1.1	10
155	Variable-Temperature NMR Determination of the Barriers to Rotation about the Ir <sup>+</sup> C ̂f-Bond in a Series of Primary Perfluoroalkyl Iridium Complexes [IrCp*{(CF <sub>2</sub> ) <sub>n</sub> CF <sub>3</sub> }(PMe <sub>3</sub> ) <sub>2</sub> ]+X <sup>-</sup> [n = 1, 2, 3, 5, 7, 9, 11; X = I, OTf]. <i>Organometallics</i> , 2007, 26, 264-271.	2.3	10
156	Synthesis and X-ray Structure of a Diamagnetic Oxo-Bridged Trifluoromethyl <sup>+</sup> Chromium(V) Complex: Structural and Computational Comparisons between CF <sub>3</sub> and CH <sub>3</sub> Ligands in Two Different Oxidation States of Chromium. <i>Organometallics</i> , 2010, 29, 3672-3675.	2.3	10
157	Synthesis and Structure of Metal Complexes of P-Stereogenic Chiral Phosphiranes: An EDA-NOCV Analysis of the Donor <sup>+</sup> Acceptor Properties of Phosphirane Ligands. <i>Organometallics</i> , 2018, 37, 1473-1482.	2.3	10
158	Transition-metal chemistry of octafluorocyclooctatetraene. Synthesis and x-ray structure of a novel five-coordinate cis-dialkylnickel complex. <i>Organometallics</i> , 1986, 5, 1053-1055.	2.3	9
159	Reversible Carbon-Carbon Bond Cleavage of a 3-Vinyl-1-Cyclopropene by Rh(I). Molecular Structures of Two Sterically Crowded 1,2,3,5-̂-Pentadienediyl Complexes of Rh(III). <i>Israel Journal of Chemistry</i> , 1990, 30, 351-360.	2.3	9
160	Flash Vacuum Thermolysis of ̂-5-Oxocyclohexadienyl Complexes of Ruthenium To Give ̂-5-Cyclopentadienyl Ligands. <i>Organometallics</i> , 1998, 17, 270-273.	2.3	9
161	A (pentafluoroethyl)(trifluoromethyl)carbene complex of iridium and reductive activation of its sp <sup>3</sup> carbon <sup>+</sup> fluorine bonds to give perfluoro-2-butyne, perfluoro-1,2,3-butatriene	3.3	9
162	.eta.3-Cyclopropenyl is isolobal with nitrosyl, but not with .eta.3-propenyl (allyl): evidence from conformational preferences and rotational barriers in alkene and alkyne complexes of iridium. <i>Organometallics</i> , 1993, 12, 4736-4738.	2.3	8

#	ARTICLE	IF	CITATIONS
163	A Monomeric Perfluoroalkyl Iridium(III) Amido Complex with an Ir=N Double Bond and Its Reactions To Activate sp <sup>3</sup> Carbon-Hydrogen Bonds at Room Temperature. <i>Organometallics</i> , 2009, 28, 4646-4648.	2.3	8
164	Diastereoselective Synthesis of P-Stereogenic Secondary Phosphine Oxides (SPOs) Bearing a Chiral Substituent by Ring Opening of (+)-Limonene Oxide with Primary Phosphido Nucleophiles. <i>Journal of Organic Chemistry</i> , 2020, 85, 14516-14526.	3.2	8
165	Syntheses of metal carbonyls. <i>Journal of Organometallic Chemistry</i> , 1985, 286, 361-368.	1.8	7
166	An Unusual Migratory Insertion of CO into a Pentamethylcyclopentadienyl-Platinum Bond. <i>Organometallics</i> , 2007, 26, 5735-5736.	2.3	7
167	Reactions of diiron enneacarbonyl with pyrylium iodides. <i>Journal of Organometallic Chemistry</i> , 1977, 141, C29-C32.	1.8	6
168	A Convenient Synthesis of 2-Alkyl-3-Deutero-2-Cyclopropene-1-Carboxylic Acids. <i>Synthetic Communications</i> , 1981, 11, 999-1004.	2.1	6
169	Cyclopentadienylcobalt and rhodium complexes containing monocyclic and bicyclic valence isomers of octafluorocyclooctatetraene: crystal and molecular structures of the exo and endo isomers of (.eta.-cyclopentadienyl)(2-5-.eta.-octafluorobicyclo[4.2.0]octa-2,4,7-triene)rhodium(I). <i>Organometallics</i> , 1985, 4, 1606-1611.	2.3	6
170	Molybdenum and tungsten complexes containing the 1,2-di-tert-butylcyclopentadienyl ligand. <i>Journal of Organometallic Chemistry</i> , 1996, 517, 63-70.	1.8	6
171	Unexpected Synthesis of a Perfluoroacyl Complex, Cp*Ir(CO)(COC <sub>6</sub> F <sub>11</sub> )Br, by Direct Fluoroalkylation of a CO Ligand, and Elimination of Perfluorocyclohexene by Activation of a Ir-C-F Bond. <i>Organometallics</i> , 2011, 30, 1744-1746.	2.3	6
172	Synthesis, structure, and reactivity of iridium perfluorocarbene complexes: regio- and stereo-specific addition of HCl across a metal carbon double bond. <i>Dalton Transactions</i> , 2015, 44, 19528-19542.	3.3	6
173	η <sup>5</sup> -Selective Synthesis and Coordination Chemistry of Pyridine-Phosphaalkenes: Five Ligands Produce Four Distinct Types of Ru(II) Complexes. <i>Organometallics</i> , 2019, 38, 3338-3348.	2.3	6
174	Cationic cobalt(I) carbonyl compounds containing complexed cyclobutadienes. <i>Journal of Organometallic Chemistry</i> , 1979, 169, C12-C14.	1.8	5
175	Reversible Insertion of Iridium into a Cyclopropenyl Carbon-Carbon Bond. <i>Organometallics</i> , 1994, 13, 4664-4666.	2.3	5
176	Reactions of Perfluoroisopropyl Iodide with Cyclopentadienyl-Rhodium Complexes in Methanol. An Unexpected Route to a Rhodium-Fulvalene Complex. <i>Organometallics</i> , 2002, 21, 243-246.	2.3	5
177	Synthesis and crystallographic characterization of dimeric perfluoroalkyl iridium complexes: [Cp*Ir(X)(RF)] <sub>2</sub> (X = I, RF = CF <sub>3</sub> , CF <sub>2</sub> CF <sub>3</sub> , CF <sub>2</sub> CF <sub>2</sub> CF <sub>3</sub> , CF(CF <sub>3</sub> ) <sub>2</sub> , CF(CF <sub>3</sub> )(CF <sub>2</sub> CF <sub>3</sub> ); X = Cl and Br, RF = CF <sub>2</sub> CF <sub>3</sub> ), 2,4 and a new perfluoroethylidene complex Cp*Ir(PPH <sub>3</sub> )(CF <sub>2</sub> CF <sub>3</sub> ). <i>Inorganica Chimica Acta</i> , 2010, 364, 96-101.		5
178	Syntheses, solution behavior, and computational bond length analyses of trifluoromethyl and perfluoroethyl cuprate salts. <i>Journal of Fluorine Chemistry</i> , 2020, 234, 109518.	1.7	5
179	Transannular ring-closure reactions of octafluorocyclooctatetraene coordinated to cobalt and rhodium centers. Ligand-induced formation of .eta. <sup>2</sup> -octafluorocycloocta-2,5,7-triene-1,4-diyl and .eta. <sup>2</sup> -octafluorobicyclo[3.3.0]octa-2,7-diene-4,6-diyl complexes of cobalt(III) and rhodium(III). <i>Organometallics</i> , 1988, 7, 1625-1631.	2.3	4
180	Conformationally rigid .eta. <sup>3</sup> -cyclopropenyl complexes of ruthenium(IV). Crystal and molecular structure of [Ru(.eta. <sup>5</sup> -C <sub>5</sub> H <sub>5</sub> )(.eta. <sup>3</sup> -C <sub>3</sub> Ph <sub>3</sub> )Br <sub>2</sub> ]. <i>Organometallics</i> , 1988, 7, 2413-2415.	2.3	3

#	ARTICLE	IF	CITATIONS
181	New and Revisited Transition Metal Chemistry of Fluoro-olefins and Fluorodienes. ACS Symposium Series, 1994, , 252-264.	0.5	3
182	Synthesis, Structure, Dynamics, and Enantioface-Selective $\eta^3$ -Benzyl Coordination in the Chiral Rhodium Complexes Rh(diphos*)( $\eta^3$ -CH <sub>2</sub> Ph). Organometallics, 2020, 39, 3802-3816.	2.3	3
183	Inversion of Configuration at the Phosphorus Nucleophile in the Diastereoselective and Enantioselective Synthesis of $\beta$ -Stereogenic syn $\alpha$ -Phosphiranes from Chiral Epoxides. Angewandte Chemie, 2018, 130, 5141-5145.	2.0	2
184	P-Alkynyl functionalized benzazaphospholes as transmetalating agents. Dalton Transactions, 2021, 50, 599-611.	3.3	2
185	Comparing Properties of Common Bioinorganic Ligands with Switchable Variants of Cytochrome c. Inorganic Chemistry, 2021, , .	4.0	2
186	Competing (4+2) and (2+2) cycloaddition reactions of tetrafluorothiophene-S,S-dioxide with phenylacetylene: A computational study. Journal of Fluorine Chemistry, 2019, 221, 42-47.	1.7	1
187	Configurational Lability at Tetrahedral Phosphorus: syn/anti $\alpha$ -Isomerization of a $\beta$ -Stereogenic Phosphiranium Cation by Intramolecular Epimerization at Phosphorus. Angewandte Chemie - International Edition, 2021, , .	13.8	1
188	Transition metal chemistry of octafluorocyclooctatetraene. Journal of Fluorine Chemistry, 1982, 21, 20.	1.7	0
189	X-ray structures and electronic properties of the 1,1- $\eta^2$ ,2,2- and 1,1- $\eta^2$ ,3,3- $\eta^2$ -tetra-t-butylferrocenium(1+) cations. Polyhedron, 2017, 121, 88-94.	2.2	0
190	Metal-carbon bonding in perfluoroethylene and perfluorobenzene transition metal complexes. Some underappreciated $\sigma$ - and $\pi$ -acceptor components. , 2021, , 343-364.		0
191	Configurational Lability at Tetrahedral Phosphorus: syn/anti $\alpha$ -Isomerization of a $\beta$ -Stereogenic Phosphiranium Cation by Intramolecular Epimerization at Phosphorus. Angewandte Chemie, 0, , .	2.0	0