

Claude Lapinte

List of Publications by Year in descending order

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60
papers

4,997
citations

76196

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123241

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Organometallic molecular wires and other nanoscale-sized devices. <i>Coordination Chemistry Reviews</i> , 1998, 178-180, 431-509.	9.5	587
2	Elemental Carbon Chain Bridging Two Iron Centers: Syntheses and Spectroscopic Properties of $[\text{Cp}^*(\text{dppe})\text{Fe}-\text{C}_4-\text{FeCp}^*(\text{dppe})]_n^+ \cdot \text{PF}_6^-$. X-ray Crystal Structure of the Mixed Valence Complex ($n = 1$). <i>Journal of the American Chemical Society</i> , 1995, 117, 7129-7138.	6.6	432
3	Charge delocalization vs localization in carbon-rich iron mixed-valence complexes: A subtle interplay between the carbon spacer and the $(\text{dppe})\text{Cp}^*\text{Fe}$ organometallic electrophore. <i>Coordination Chemistry Reviews</i> , 2013, 257, 1584-1613.	9.5	170
4	A Conjugated-Consanguineous Family of Butadienediyl-Derived Complexes: Synthesis and Electronic Ground States of Neutral, Radical Cationic, and Dicationic Iron/Rhenium C ₄ Species. <i>Journal of the American Chemical Society</i> , 2000, 122, 9405-9414.	6.6	162
5	1,4-Diethynylbenzene Bridged $\text{Fe}(\text{Cp}^*)(\text{dppe})$ Units: Mixed-Valence 35-Electron and Bisiron(III) 34-Electron Complexes. <i>Organometallics</i> , 1995, 14, 634-639.	1.1	141
6	Bonding and Substituent Effects in Electron-Rich Mononuclear Ruthenium η^5 -Arylacetylides of the Formula $[(\eta^5\text{-dppe})(\eta^5\text{-C}_5\text{Me}_5)\text{Ru}(\text{C}_6\text{H}_4\text{X})_n][\text{PF}_6]_n$ ($n = 0, 1$; $\text{X} = \text{NO}_2, \text{CN}, \text{F}, \text{H}, \text{OMe}, \text{NH}_2$). <i>Organometallics</i> , 2006, 25, 649-665.	1.1	137
7	Di-organoiron Mixed Valent Complexes Featuring $(\eta^5\text{-dppe})(\eta^5\text{-C}_5\text{Me}_5)\text{Fe}$ Endgroups: A Smooth Class-III to Class-II Transition Induced by Successive Insertion of 1,4-Phenylene Units in a Butadiyne-Diyl Bridge. <i>Journal of the American Chemical Society</i> , 2006, 128, 2463-2476.	6.6	133
8	Halo- and alkyl(pentamethylcyclopentadienyl)[1,2-bis(diphenylphosphino)ethane]iron(III) 17-electron complexes: synthesis, NMR and magnetic properties and EMO calculations. <i>Organometallics</i> , 1991, 10, 1045-1054.	1.1	132
9	Electron-Rich Piano-Stool Iron η^5 -Acetylides Bearing a Functional Aryl Group. Synthesis and Characterization of Iron(II) and Iron(III) Complexes. <i>Organometallics</i> , 2000, 19, 4240-4251.	1.1	129
10	Molecular Wires: Synthesis and Properties of the New Mixed-Valence Complex $[\text{Cp}^*(\text{dppe})\text{Fe}(\text{C}_4\text{X})_2\text{Fe}(\text{dppe})\text{Cp}^*][\text{PF}_6]$ ($\text{X} = 2,5\text{-C}_4\text{H}_2\text{S}$) and Comparison of Its Properties with those of the Related All-Carbon-Bridged Complex ($\text{X} = \text{C}_4$). <i>Organometallics</i> , 2000, 19, 1035-1043.	1.1	128
11	Bi- and Trimetallic η^5 -Acetylide Complexes Connected through a Phenyl Ring in the $\text{Fe}(\text{Cp}^*)(\text{dppe})$ Series. <i>Organometallics</i> , 1997, 16, 2024-2031.	1.1	126
12	$[(\text{Cp}^*)(\text{dppe})\text{Fe}(\text{III})]_n^+$ Units Bridged through 1,3-Diethynylbenzene and 1,3,5-Triethynylbenzene Spacers: Ferromagnetic Metal-Metal Exchange Interaction. <i>Organometallics</i> , 1998, 17, 5569-5579.	1.1	123
13	A Four-Oxidation-State Family of Coordinated Carbon: The First Isolable and Crystallographically Characterized Triradical $[\text{M}(\text{C}_4)]_3^+$. <i>Organometallics</i> , 1998, 17, 1928-1930.	1.1	116
14	First C ₄ bridged mixed-valence iron(II)-iron(III) complex delocalized on the infrared timescale. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, .	2.0	113
15	Iron versus Ruthenium: Dramatic Changes in Electronic Structure Result from Replacement of One Fe by Ru in $[\{\text{Cp}^*(\text{dppe})\text{Fe}\}-\text{CC}-\text{CC}-\{\text{Fe}(\text{dppe})\text{Cp}^*\}]_n$ ($n = 0, 1, 2$). <i>Organometallics</i> , 2005, 24, 3864-3881.	1.1	112
16	Electron-Rich Piano-Stool Iron η^5 -Acetylides. Electronic Structures of Arylalkynyl Iron(III) Radical Cations. <i>Organometallics</i> , 2005, 24, 5464-5478.	1.1	109
17	Bonding and Electronic Structure in Consanguineous and Conjugal Iron and Rhenium sp Carbon Chain Complexes $[\text{MC}_4]_n^+$: A Computational Analyses of the Effect of the Metal. <i>Journal of the American Chemical Society</i> , 2003, 125, 9511-9522.	6.6	106
18	Organometallic Mixed-Valence Systems. Two-Center and Three-Center Compounds with metaConnections around a Central Phenylene Ring. <i>Organometallics</i> , 2000, 19, 4228-4239.	1.1	105

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19	Photochromic Organometallics with a Dithienylethene (DTE) Bridge, $[Y\{MCP^*(dppe)\}_2(DTE)_2]$ ($Y=\{M\}$): Photoswitchable Molecular Wire ($M=Fe$) versus Dual Photo- and Electrochromism ($M=Ru$). <i>Chemistry - A European Journal</i> , 2010, 16, 4762-4776.	1.7	99
20	Electron-Rich Piano-Stool Iron π -Acetylides. Theoretical and Phenomenological Investigation of Electronic Substituent Effects in Iron(II) Acetylides. <i>Organometallics</i> , 2004, 23, 2053-2068.	1.1	98
21	Magnetic perturbation of the redox potentials of localized and delocalized mixed-valence complexes. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 793-801.	0.8	95
22	Novel diamagnetic and paramagnetic iron(II), iron(III), and iron(IV) classical and nonclassical hydrides. X-ray crystal structure of $[Fe(C_5Me_5)(dppe)D]PF_6$. <i>Organometallics</i> , 1992, 11, 1429-1431.	1.1	92
23	Charge Localization in Isolated Mixed-Valence Complexes: An STM and Theoretical Study. <i>Journal of the American Chemical Society</i> , 2010, 132, 13519-13524.	6.6	92
24	μ_2 -Bis(ethynyl)biferrocene as a Linking Group for Gold, Ruthenium, and Osmium Fragments: Synthesis, Solid State Structures, and Electrochemical, UV-Vis, and EPR Spectroscopical Studies. <i>Organometallics</i> , 2009, 28, 1878-1890.	1.1	89
25	Investigation of the iron-carbon bonding for alkyl, alkynyl, carbene, vinylidene, and allenylidene complexes using ^{57}Fe Mössbauer spectroscopy. <i>Journal of Organometallic Chemistry</i> , 1998, 565, 75-80.	0.8	72
26	Syntheses and X-ray Crystal Structures of Five- and Six-Coordinated Iron(I) and Iron(II) Complexes with the Same $(\eta^5-C_5Me_5)Fe(dppe)$ Framework. <i>Organometallics</i> , 1996, 15, 10-12.	1.1	70
27	Redox-Active Organometallics: Magnetic and Electronic Couplings through Carbon-Silicon Hybrid Molecular Connectors. <i>Journal of the American Chemical Society</i> , 2008, 130, 17372-17383.	6.6	69
28	3,5-Bis(ethynyl)pyridine and 2,6-Bis(ethynyl)pyridine Spanning Two $Fe(Cp^*)(dppe)$ Units: Role of the Nitrogen Atom on the Electronic and Magnetic Couplings. <i>Inorganic Chemistry</i> , 2011, 50, 12601-12622.	1.9	69
29	Through-Bond versus Through-Space Coupling in Mixed-Valence Molecules: Observation of Electron Localization at the Single-Molecule Scale. <i>Journal of the American Chemical Society</i> , 2012, 134, 1710-1714.	6.6	66
30	17-Electron alkynyl complexes of cyclopentadienyliron(III). <i>Journal of the Chemical Society Dalton Transactions</i> , 1993, , 2575.	1.1	64
31	Synthesis of Exceptionally Stable Iron and Ruthenium-1-tetrahydro-Tetraphosphorus Complexes: Evidence for a Strong Temperature Dependence of σ Back Donation. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3910-3912.	7.2	61
32	Synthesis of Bis(methoxycarbene) and Bis(alkylidene) Ligands Bridging Two Iron Centers in the $Cp^*Fe(L_1)(L_2)$ Series. X-ray Crystal Structure of the Iron Alkylidene $[Cp^*Fe(dppe)(C(H)Me)]PF_6$. <i>Organometallics</i> , 1996, 15, 5399-5408.	1.1	60
33	μ_2 -Bis(ethynyl)biferrocenyl-Bridged $Fe(dppe)Cp^*$ Units: Synthesis, Solid-State Structures, and Electronic Couplings. <i>Organometallics</i> , 2010, 29, 4804-4817.	1.1	58
34	Spectroscopic Evidence for Redox Isomerism in the 1,4-Diethynylbenzene-Bridged Heterobimetallic Cation $[Fe(dppe)Cp^*](\eta^4-C_6H_4)(\eta^4-C_6H_4)Mo(dppe)(\eta^7-C_7H_7)PF_6$. <i>Organometallics</i> , 2011, 30, 4180-4195.	1.1	58
35	Synthesis, Spectroelectrochemical, and EPR Spectroscopic Studies of Mixed Bis(alkynyl)biferrocenes of the Type $M(C_5Me_5)(L)(\eta^5-C_5Me_5)Cp^*$. <i>Organometallics</i> , 2012, 31, 3565-3574.	1.1	55
36	Synthesis of the Bis(iron) Carbene Complex $[Cp^*(dppe)FeC(OMe)CHCHC(OMe)Fe(dppe)Cp^*]PF_6$: A Binuclear Organometallic Compound with a Low-Spin \rightarrow High-Spin Interconversion. <i>Organometallics</i> , 2000, 19, 1422-1426.	1.1	50

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37	Electronic and Magnetic Couplings in Free and η^5 -Coordinated 1,4-Diethynyl-naphthalene-Bridged $[\text{Cp}^*(\text{dppe})\text{Fe}]^n$ ($n = 0, 1$) Units. <i>Organometallics</i> , 2009, 28, 4656-4669.	1.1	47
38	Secondary methoxycarbene complexes $[(\eta^5\text{-C}_5\text{Me}_5)\text{M}(\text{CO})_2(\text{CHOMe})]^+$ (M = iron, ruthenium): dynamic NMR studies and electrophilic properties. <i>Organometallics</i> , 1988, 7, 604-612.	1.1	46
39	Hexatriynediyl Chain Spanning Two $\text{Cp}^*(\text{dppe})\text{M}$ Termini (M = Fe, Ru): Evidence for the Dependence of Electronic and Magnetic Couplings on the Relative Orientation of the Termini. <i>Organometallics</i> , 2014, 33, 2613-2627.	1.1	45
40	Iron versus Ruthenium: Clarifying the Electronic Differences between Prototypical Mixed-Valence Organometallic Butadiynediyl Bridged Molecular Wires. <i>Organometallics</i> , 2018, 37, 1432-1445.	1.1	44
41	Straightforward Access to Tetrametallic Complexes with a Square Array by Oxidative Dimerization of Organometallic Wires. <i>Organometallics</i> , 2013, 32, 5015-5025.	1.1	39
42	Metallacumulenyliene complexes in the $[(\eta^5\text{-C}_5\text{Me}_5)(\eta^2\text{-dppe})\text{Fe}(\text{C}(\text{C}(\text{R})_2)\text{X})_n]$ ($n = 0, 1, 2$) series: investigations of the iron-carbon bonding by Mössbauer spectroscopy and X-ray analyses. <i>Comptes Rendus Chimie</i> , 2003, 6, 209-222.	0.2	38
43	Iron and Ruthenium η^5 -Polyynyls of the General Formula $[\text{M}(\text{dppe})\text{Cp}^*]_n(\eta^5\text{-C}_5\text{Me}_5)_m(\eta^2\text{-R})_n$ (M = Fe, Ru): An Experimental and Theoretical Investigation. <i>Organometallics</i> , 2012, 31, 6796-6811.	1.1	37
44	$[(\eta^5\text{-C}_5\text{Me}_5)\text{Fe}(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{CH}_2\text{PPh}_2)][\text{SO}_3\text{CF}_3]$, a Stable 16-Electron Complex with a Coordinating Counteranion and without Agostic Interaction: The Dramatic Role of a Trivial Methylene Group. <i>Organometallics</i> , 2002, 21, 1341-1348.	1.1	33
45	Redox active organoiron alkynyl centers with a coordination site: an approach toward molecular plugs. Complexation reactions with $(\text{THF})\text{W}(\text{CO})_5$ and $(\text{PhCN})_2\text{MCl}_2$ (M = Pd, Pt). <i>Inorganica Chimica Acta</i> , 1999, 291, 403-425.	1.2	32
46	1,2-Diethynylbenzene-Bridged $[\text{Cp}^*(\text{dppe})\text{Fe}]^n$ Units: Effect of Steric Hindrance on the Chemical and Physical Properties. <i>Organometallics</i> , 2015, 34, 3314-3326.	1.1	30
47	Magnetic communication between two $[(\eta^5\text{-C}_5\text{Me}_5)(\eta^2\text{-dppe})\text{Fe}(\text{III})]$ units mediated by the 2,5-bis(ethynyl)thiophene spacer. <i>Comptes Rendus Chimie</i> , 2003, 6, 353-366.	0.2	27
48	Double Insertion of Thiophene Rings in Polyynediyl Chains to Stabilize Nanoscaled Molecular Wires with $[\text{Cp}^*(\text{dppe})\text{Fe}]$ Termini. <i>Organometallics</i> , 2016, 35, 2057-2070.	1.1	25
49	Synthesis, Molecular Structure, Properties, and Electronic Structures of $[\text{Cp}^*(\text{dppe})\text{Fe}(\eta^5\text{-C}_5\text{Me}_5)_3][\text{PF}_6]_n$ ($n = 0, 1$): Electronic Coupling between the Inorganic and Organic Electrophores. <i>Organometallics</i> , 2010, 29, 4628-4638.	1.1	24
50	Synthesis, X-ray crystal structure and magnetic properties of the six-coordinated intermediate-spin		

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55	Preparation and Characterization of the Triflate Complex [Cp*(dppe)FeOSO ₂ CF ₃]: A Convenient Access to Labile Five- and Six-Coordinate Iron(I) and Iron(II) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 84-93.	1.0	9
56	access to functional compounds. <i>Journal of the Chemical Society Chemical Communications</i> , 1986, , 894-896.	2.0	7
57	1,4-Dimethoxybutadienediyl-Bridged Diiron Compounds in Three Oxidation States: Evaluation of Delocalization Effects. <i>Organometallics</i> , 2019, 38, 2724-2737.	1.1	7
58	Synthesis and characterization of the chiral iron secondary methoxycarbene [Fe(C5Me5)(CO)(PMePh2)(CHOMe)][SO3CF3]. <i>Journal of Organometallic Chemistry</i> , 1991, 414, 373-380.	0.8	6
59	1,4-Diethynylbenzene-Bridged [Cp*(dppe)Fe] ⁿ⁺ Units: Effect of 2,5-Ethynyl Groups on the Chemical and Electronic Properties. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2624-2638.	1.0	4
60	1,3-Diethynyl-5-(X)-Benzene-Bridged [Cp*(dppe)Fe] ⁿ⁺ Units: Effect of Substituents on the Metal-Metal Interactions. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 5060.	1.0	2