

Richard D Ernst

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Synthetic and structural studies of coupling products of diimines with open half-open titanocenes and zirconocenes. <i>Polyhedron</i> , 2022, , 115993.	2.2	0
2	Preparation, characterization, and structural studies of new ruthenium(II) and ruthenium(III) complexes incorporating pyrazole ligands. <i>Polyhedron</i> , 2021, 209, 115365.	2.2	0
3	Transition-Metal Complexes with (C-C) σ -M Agostic Interactions. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1204-1204.	2.0	0
4	Transition-Metal Complexes with (C=C) σ -M Agostic Interactions. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1205-1226.	2.0	18
5	Synthesis and Structural Study of the Bis(ethylenediamine)CdFe(CO) ₄ Monomer. <i>Journal of Crystallography</i> , 2014, 2014, 1-4.	0.0	0
6	Crystallization and Structural Characterization of Dimeric and Trimeric Forms of (Neocuproine)CdFe(CO) ₄ . <i>Journal of Crystallography</i> , 2014, 2014, 1-6.	0.0	1
7	Synthesis and Structural Study of the (N,N,N',N'-Tetraethylethylenediamine)CdFe(CO) ₄ Dimer. <i>Journal of Crystallography</i> , 2014, 2014, 1-5.	0.0	0
8	Structural Studies of [(py) ₂ CdFe(CO) ₄] ₃ and {(THF) ₅ [CdFe(CO) ₄] ₃ }. <i>Journal of Crystallography</i> , 2014, 2014, 1-5.	0.0	3
9	Structural Studies of the Hexakis(pyridazine)cobalt(II) and Hexakis(pyridazine)ruthenium(II) Ions as their Hexafluorophosphate and Tetraphenylborate Salts. <i>Journal of Chemical Crystallography</i> , 2013, 43, 360-364.	1.1	1
10	Syntheses and Structural Studies of the Coupling Products of the Zr(6,6-dimethylcyclohexadienyl) ₂ Fragment with the Diimines (CH ₂) _n [N=CH(C ₆ H ₅)] ₂ (n=3,4). <i>Journal of Chemical Crystallography</i> , 2013, 43, 91-95.	1.1	4
11	Synthesis and Structural Study of Tris(-pyrazolyl)hexakis(pyrazole)dicobalt(III) Nitrate. <i>Journal of Crystallography</i> , 2013, 2013, 1-5.	0.0	2
12	Half-Sandwich Ruthenium-Phosphine Complexes with Pentadienyl and Oxo- and Azapentadienyl Ligands. <i>Organometallics</i> , 2012, 31, 7125-7145.	2.3	13
13	Synthetic Doped Amorphous Ferrihydrite for the Fischer-Tropsch Synthesis of Alternative Fuels. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4515-4522.	3.7	5
14	Structural Studies of Electron Deficient Titanacyclobutanes. <i>Journal of Chemical Crystallography</i> , 2011, 41, 1391-1394.	1.1	2
15	Structural Studies of Coupling Products Formed Between (C ₆ H ₅)CH=N(C ₆ H ₅) and the M(C ₅ H ₅)(6,6-dmch) Fragments (M=Ti, Zr; dmch=dimethylcyclohexadienyl). <i>Journal of Chemical Crystallography</i> , 2011, 41, 1433-1437.	1.1	4
16	Structural Studies of the Isomorphous MCl ₂ (PMe ₃) ₄ (M=Mo, W) Complexes. <i>Journal of Chemical Crystallography</i> , 2011, 41, 1438-1441.	1.1	1
17	Use of pyrazolyl ligands for the formation of a bimetallic cobalt-ruthenium complex. <i>Polyhedron</i> , 2011, 30, 1899-1905.	2.2	6
18	Structural Studies of [Ru(1,8-naphthyridine) ₄] ²⁺ and [Ru(1,5-cyclooctadiene)(1,8-naphthyridine) ₂] ²⁺ as their Tetraphenylborate Salts. <i>Journal of Chemical Crystallography</i> , 2010, 40, 235-240.	1.1	2

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19	Structural Studies of (Pyridine) ₃ ZnFe(CO) ₄ and (Pyridine)(Neocuproin)CdFe(CO) ₄ . <i>Journal of Chemical Crystallography</i> , 2010, 40, 778-782.	1.1	8
20	Structural Studies of the Coupling Products Between (C ₆ H ₅)CH=NR (R = C ₆ H ₅ , i-C ₃ H ₇) and the Ti(C ₅ H ₅) ₂ (4-C ₇ H ₁₁) Fragment (C ₇ H ₁₁ = dimethylpentadienyl). <i>Journal of Chemical Crystallography</i> , 2010, 40, 783-787.	1.1	4
21	Syntheses and characterization of the W(II) and W(III) N ₂ complexes, [WCl ₂ (PMe ₃) ₃] ₂ N ₂ and [WCl ₃ (PMe ₃) ₂] ₂ N ₂ . <i>Inorganica Chimica Acta</i> , 2010, 363, 221-224.	2.4	6
22	Coordination chemistry of half-open zirconocenes: Adduct formation of [(η -7-C ₇ H ₇)Zr(η -5-2,4-C ₇ H ₁₁)] with isocyanides, phosphines and N-heterocyclic carbenes. <i>Inorganica Chimica Acta</i> , 2010, 364, 23-29.	2.4	24
23	Fused ring systems derived from reactions of half-open titanocenes with diynes: Syntheses, characterization, cage rearrangements, and structural studies. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 1112-1121.	1.8	8
24	A New Versatile Approach to Substituted Cyclopentadienyl-Cycloheptatrienyl Complexes of Zirconium (Zirconocenes). <i>Organometallics</i> , 2009, 28, 7041-7046.	2.3	28
25	Cycloheptatrienyl-Pentadienyl Complexes of Zirconium (Half-Open Zirconocenes): Syntheses, Structures, Bonding, and Chemistry. <i>Organometallics</i> , 2009, 28, 5866-5876.	2.3	32
26	Iron Aerogel and Xerogel Catalysts for Fischer-Tropsch Synthesis of Diesel Fuel. <i>Energy & Fuels</i> , 2009, 23, 14-18.	5.1	33
27	Charge Density Analysis of the (C-C)Ti Agostic Interactions in a Titanacyclobutane Complex. <i>Journal of the American Chemical Society</i> , 2009, 131, 6154-6160.	13.7	43
28	The reaction of the bis(6,6-dimethylcyclohexadienyl)zirconium fragment with PhC ₂ SiMe ₃ : A 5+2+2 ring construction. <i>Journal of Molecular Structure</i> , 2008, 890, 107-111.	3.6	11
29	Reactions of the 6,6-dimethylcyclohexadienyl anion with MCl ₄ (PMe ₃) ₂ complexes (M=Hf, Nb): Isolation of complex intramolecular coupling products. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 1420-1425.	1.8	8
30	Isolation and Characterization of Bromination Products of Zr(C ₅ H ₅) ₂ Br ₂ . <i>Organometallics</i> , 2008, 27, 327-333.	2.3	4
31	Pentadienyl Complexes of the Group 4 Transition Metals. <i>Advances in Organometallic Chemistry</i> , 2007, 137-199.	1.0	36
32	SF ₆ as a Selective and Reactive Fluorinating Agent for Low-Valent Transition Metal Complexes#. <i>Organometallics</i> , 2007, 26, 2872-2879.	2.3	51
33	Silyl Substitution Effects on Metal-Pentadienyl Bonding: A Synthesis, Structure, Photoelectron Spectroscopy, and Electronic Structure of a High-Valent Half-Open Zirconocene. <i>Organometallics</i> , 2007, 26, 2867-2871.	2.3	12
34	Edge-bridged half-open zirconocenes: Synthesis, characterization, and reaction with diphenylacetylene. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 4460-4466.	1.8	6
35	Preparation of ruthenium(II) chloride complexes of polybasic amines. <i>Inorganica Chimica Acta</i> , 2006, 359, 839-845.	2.4	10
36	Syntheses and characterization of mono(6,6-dimethylcyclohexadienyl) complexes of titanium and zirconium. <i>Polyhedron</i> , 2006, 25, 876-880.	2.2	11

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37	Coupling reactions of alkynes with half-open titanocenes: Agostic (C σ -C) \rightarrow Ti interactions in a tetra(alkyne) coupling product with the Ti(C ₅ H ₅)(η -C ₈ H ₁₁) fragment. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 5211-5217.	1.8	23
38	Origin of 1,4-Regiochemistry in the Dicyouplings of Ketones with 6,6-Dimethylcyclohexadienyl Complexes of Titanium and Zirconium: A Mechanism Arising from Five-Electron Donation by Alkoxide Ligands. <i>Organometallics</i> , 2005, 24, 3982-3986.	2.3	12
39	Structural and Spectroscopic Demonstration of Agostic C σ -C Interactions in Electron-Deficient Metallacyclobutanes and Related Cage Complexes: A Possible Implications for Olefin Polymerizations and Metatheses. <i>Journal of the American Chemical Society</i> , 2005, 127, 16426-16435.	13.7	55
40	Reactions of SF ₆ with Organotitanium and Organozirconium Complexes: The η -SF ₆ as a Reactive Fluorinating Agent. <i>Journal of the American Chemical Society</i> , 2005, 127, 11924-11925.	13.7	51
41	Higher Valent Metal Pentadienyl Chemistry: Syntheses, Structures, and Reactions of Zr(6,6-dmch) ₂ X ₂ Complexes (dmch = dimethylcyclohexadienyl; X = Cl, Br, I) and Related Species. <i>Organometallics</i> , 2005, 24, 3974-3981.	2.3	17
42	Pentadienyls vs Cyclopentadienyls and Reversal of Metal \rightarrow Ligand Bonding Affinity with Metal Oxidation State: A Synthesis, Molecular Structures, and Electronic Structures of High-Valent Zirconium Pentadienyl Complexes. <i>Journal of the American Chemical Society</i> , 2004, 126, 14105-14116.	13.7	23
43	Reactions of Zr(C ₅ H ₅)(6,6-dmch)(PMe ₃) ₂ and Zr(6,6-dmch) ₂ (PMe ₃) ₂ (dmch=dimethylcyclohexadienyl) with CO and alkynes. <i>Inorganica Chimica Acta</i> , 2004, 357, 3883-3888.	2.4	18
44	Formation and structural study of a mixed ene/enyl ligand on reaction of [Ru(C ₅ Me ₅)Cl ₂] ₂ with 1,3-cyclononadiene. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 685-688.	1.8	1
45	Incorporation of polybasic aromatic amines into ruthenium(II) chloro complexes. <i>Polyhedron</i> , 2004, 23, 2725-2731.	2.2	23
46	Syntheses and structural systematics of trialkylphosphine complexes of open titanocenes, zirconocenes and hafnocenes. <i>Dalton Transactions</i> , 2004, , 1221.	3.3	10
47	Synthetic, spectroscopic, and structural studies of bis(2-methyl-4-phenylpentadienyl)ruthenium, Ru(2-CH ₃ -4-C ₆ H ₅ C ₅ H ₅) ₂ : characterization of isomeric open ruthenocenes. <i>Journal of Organometallic Chemistry</i> , 2003, 672, 109-114.	1.8	7
48	Synthesis and structure of the edge-bridged open zirconocene, Zr(6,6-dmch) ₂ (PMe ₃) ₂ (dmch=dimethylcyclohexadienyl), and its imine coupling product. <i>Journal of Organometallic Chemistry</i> , 2003, 683, 64-69.	1.8	16
49	Reaction of Chromium(III) Chloride with the Cycloheptadienyl Anion: A Susceptibility of Edge Bridges To C σ -H Activation Reactions. <i>Organometallics</i> , 2003, 22, 812-817.	2.3	14
50	Structural, Spectroscopic, and Electrochemical Studies of Edge-Bridged Open Ferrocenes. <i>Organometallics</i> , 2003, 22, 1487-1493.	2.3	15
51	Investigation of Zr \rightarrow C, Zr \rightarrow N, and Potential Agostic Interactions in an Organozirconium Complex by Experimental Electron Density Analysis. <i>Journal of the American Chemical Society</i> , 2003, 125, 1937-1949.	13.7	63
52	Syntheses, Characterization, and Structural Studies of Half-Open Zirconocenes. <i>Organometallics</i> , 2002, 21, 3182-3188.	2.3	25
53	Zr(C ₅ H ₅)(6,6-dmch)(PMe ₃) ₂ , an edge-bridged half-open zirconocene \rightarrow synthesis, structure, and its reaction with C ₆ H ₅ C ₂ SiMe ₃ . <i>Inorganica Chimica Acta</i> , 2002, 334, 17-24.	2.4	31
54	Bonding in η -closed, η -open, and half-open ferrocenes: new insight from structural and Mössbauer spectroscopic studies. <i>Journal of Organometallic Chemistry</i> , 2001, 637-639, 172-181.	1.8	15

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55	Synthesis, characterization, and organic chemistry of an edge-bridged half-open titanocene. <i>Inorganica Chimica Acta</i> , 2000, 300-302, 65-72.	2.4	18
56	Incorporation of phenyl-substituted pentadienyl ligands in (pentamethylcyclopentadienyl)ruthenium complexes. <i>Dalton Transactions RSC</i> , 2000, , 3086-3093.	2.3	16
57	Synthesis and characterization of a dimeric acetone coupling product with a titanium-pentadienyl complex. <i>Journal of Organometallic Chemistry</i> , 1999, 583, 42-46.	1.8	13
58	Synthesis and characterization of siloxy-substituted diene and dienyl complexes of the Ru(C5Me5) fragment. <i>Inorganica Chimica Acta</i> , 1999, 296, 170-175.	2.4	12
59	Pentadienyl Ligands: Their Properties, Potential, and Contributions to Inorganic and Organometallic Chemistry. <i>Comments on Inorganic Chemistry</i> , 1999, 21, 285-325.	5.2	98
60	Tandem couplings of imines and other unsaturated organic compounds with a half-open titanocene. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 1883-1890.	1.1	23
61	Syntheses and characterization of the edge-bridged open metallocenes M(C8H11)2 (C8H11 = cyclooctadienyl; M = Ti, V, Cr or Fe). <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 3995-4001.	2.4	24
62	Reactions of Imines with Half-Open Titanocenes: Substituent Effects and Tandem Couplings with Nitriles and Isonitriles. <i>Organometallics</i> , 1999, 18, 4174-4182.	2.3	26
63	Neutron Diffraction Study of [K(18-crown-6)] [(PPh3)2ReH6Cr(CO)3], a Bimetallic Donor-Acceptor Complex. <i>European Journal of Inorganic Chemistry</i> , 1998, 1998, 851-854.	2.0	4
64	Shorter Nonbonded Than Bonded Contacts or Nonclassical Metal-to-Saturated Carbon Atom Interactions?. <i>Journal of the American Chemical Society</i> , 1998, 120, 2959-2960.	13.7	76
65	Synthesis, Characterization, and Structural Studies of Transition Metal Open Fulvalene Complexes. <i>Organometallics</i> , 1998, 17, 4240-4248.	2.3	15
66	RuH3[P(C6H5)3]3 as a ligand in complexes with M(CO)3 Fragments (M = Cr, Mo, W). <i>Journal of Cluster Science</i> , 1996, 7, 629-641.	3.3	11
67	Synthesis and characterization of Fe(1-Me3Si-3-CH3C5H5)2, an open ferrocene derived from an unsymmetric pentadienyl ligand. <i>Journal of Organometallic Chemistry</i> , 1995, 485, 25-29.	1.8	11
68	Synthesis and characterization of phosphine adducts of the open zirconocene Zr(C5H7)2. <i>Journal of Organometallic Chemistry</i> , 1995, 503, 29-33.	1.8	11
69	Synthesis, characterization, and solid-state structures of the 14-electron open metallocenes M[1,5-(Me3Si)2C5H5]2 (M = Ti or Zr). <i>Journal of Organometallic Chemistry</i> , 1995, 501, 95-100.	1.8	25
70	Unprecedented Diastereoselective Addition Reactions of 6,6-Dimethylcyclohexadienyl Titanium Complexes to Aldehydes and Ketones. <i>Journal of the American Chemical Society</i> , 1995, 117, 8490-8491.	13.7	29
71	Incorporation of Siloxy-Substituted Diene and Dienyl Ligands into Ru(C5Me5) Complexes. <i>Organometallics</i> , 1994, 13, 3914-3920.	2.3	17
72	Syntheses, characterization, and structural studies of Lewis base adducts of half-open vanadocenes, V(C5H5)(Pd)(L). <i>Organometallics</i> , 1993, 12, 1553-1558.	2.3	34

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73	Phosphine adducts of the open metallocenes of zirconium, hafnium, niobium, and molybdenum: syntheses, structures, and reactions with carbon monoxide. <i>Organometallics</i> , 1993, 12, 1543-1552.	2.3	31
74	Ring fusion and polycyclic ring constructions via half-open titanocenes. <i>Journal of the American Chemical Society</i> , 1992, 114, 6252-6254.	13.7	48
75	Half-open titanocene chemistry: coupling reactions of pentadienyl ligands with carbon-nitrogen and carbon-oxygen multiple bonds. <i>Organometallics</i> , 1992, 11, 3201-3209.	2.3	25
76	Half-open ruthenocenes derived from [Ru(C5Me5)Cl]4: syntheses, characterizations, and solid-state structures. <i>Organometallics</i> , 1992, 11, 1686-1692.	2.3	46
77	Syntheses, characterization, and structural and kinetic studies of half-open chromocenes and their ligand adducts. <i>Journal of the American Chemical Society</i> , 1991, 113, 6509-6520.	13.7	42
78	Open and half-open ruthenocenes and osmocenes: protonations, structures, and reactions with carbonyl and phosphine ligands. <i>Organometallics</i> , 1990, 9, 2962-2972.	2.3	54
79	Structural characterization of open, half-open, and closed ferrocenes in solution by ⁵⁷ Fe and ¹³ C NMR spectroscopy. <i>Journal of Organometallic Chemistry</i> , 1989, 375, 115-121.	1.8	13
80	Pentadienyl, a More Reactive and More Strongly Bound Ligand Than Cyclopentadienyl. <i>Angewandte Chemie International Edition in English</i> , 1988, 27, 1099-1101.	4.4	30
81	Structural and reactivity patterns in transition-metal-pentadienyl chemistry. <i>Chemical Reviews</i> , 1988, 88, 1255-1291.	47.7	199
82	Ethylene polymerization over organochromium catalysts: A comparison between closed and open pentadienyl ligands. <i>Journal of Polymer Science Part A</i> , 1987, 25, 2063-2075.	2.3	36
83	Synthetic, structural and PE spectroscopic studies on bis(pentadienyl) compounds of iron, ruthenium and osmium. The role of the heavy metal. <i>Journal of Organometallic Chemistry</i> , 1987, 326, 257-268.	1.8	14
84	Solid-state structure of bis(2,3,4-trimethylpentadienyl)iron. <i>Journal of Organometallic Chemistry</i> , 1987, 321, 389-395.	1.8	17
85	Metal-pentadienyl chemistry. <i>Accounts of Chemical Research</i> , 1985, 18, 56-62.	15.6	96
86	Structure and bonding in metal-pentadienyl and related compounds. , 1984, , 1-53.		65
87	Synthesis and characterization of bis(pentadienyl)ruthenium compounds. <i>Organometallics</i> , 1983, 2, 1229-1234.	2.3	35
88	Synthesis and characterization of bis(pentadienyl)iron and several methylated derivatives. <i>Organometallics</i> , 1983, 2, 1220-1228.	2.3	54
89	Crystallization and solid-state structural characterization of (2,2'-bipyridyl)zinc tetracarbonyliron, (bpy)ZnFe(CO) ₄ . <i>Inorganic Chemistry</i> , 1980, 19, 2375-2381.	4.0	29
90	The nature of bis(cyclopentadienyl)uranium dichloride and cyclopentadienyluranium trichloride in solution and in the solid state. <i>Journal of the American Chemical Society</i> , 1979, 101, 2656-2664.	13.7	82

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91	Chemical and structural relationships among the oligomeric compounds $MFe(CO)_4$ (M = zinc,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Inorganic Chemistry, 1978, 17, 1477-1484.	4.0	35
92	Metal-metal bond cleavage reactions. The crystallization and solid state structural characterization of cadmium tetracarbonyliron, $CdFe(CO)_4$. Journal of the American Chemical Society, 1977, 99, 2090-2098.	13.7	70
93	Metal-metal bond cleavage reactions. The crystal and molecular structure of (2,2'-bipyridyl)cadmium tetracarbonyliron, $(bpy)CdFe(CO)_4$. Journal of the American Chemical Society, 1977, 99, 2098-2107.	13.7	28