

Karl Wieghardt

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#	Paper	IF	Citations
542	Chemistry. Radical ligands confer nobility on base-metal catalysts. <i>Science</i> , 2010 , 327, 794-5	33.3	712
541	The Active Sites in Manganese-Containing Metalloproteins and Inorganic Model Complexes. <i>Angewandte Chemie International Edition in English</i> , 1989 , 28, 1153-1172		590
540	Electronic structure of bis(o-iminobenzosemiquinonato)metal complexes (Cu, Ni, Pd). The art of establishing physical oxidation states in transition-metal complexes containing radical ligands. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2213-23	16.4	508
539	Electronic structure of bis(imino)pyridine iron dichloride, monochloride, and neutral ligand complexes: a combined structural, spectroscopic, and computational study. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13901-12	16.4	425
538	Synthesis, crystal structures, reactivity, and magnetochemistry of a series of binuclear complexes of manganese(II), -(III), and -(IV) of biological relevance. The crystal structure of [L'MnIV(μ -O) ₃ MnIV(L')] (PF ₆) ₂ ·H ₂ O containing an unprecedented short Mn...Mn distance of 2.296 Å. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13901-12	16.4	377
537	Aerobic Oxidation of Primary Alcohols (Including Methanol) by Copper(II) and Zinc(II) Phenoxyl Radical Catalysts. <i>Journal of the American Chemical Society</i> , 1999 , 121, 9599-9610	16.4	342
536	Molecular and electronic structures of bis(pyridine-2,6-diimine)metal complexes [ML ₂](PF ₆) _n (n = 0, 1, 2, 3; M = Mn, Fe, Co, Ni, Cu, Zn). <i>Inorganic Chemistry</i> , 2000 , 39, 2936-47	5.1	286
535	Theoretical evidence for the singlet diradical character of square planar nickel complexes containing two o-semiquinonato type ligands. <i>Inorganic Chemistry</i> , 2002 , 41, 4179-93	5.1	284
534	Mononuclear (nitrido)iron(V) and (oxo)iron(IV) complexes via photolysis of [(cyclam-acetato)Fe(III)(N ₃)] ⁺ and ozonolysis of [(cyclam-acetato)Fe(III)(O ₃ SCF ₃)] ⁺ in water/acetone mixtures. <i>Inorganic Chemistry</i> , 2000 , 39, 5306-17	5.1	274
533	Joint spectroscopic and theoretical investigations of transition metal complexes involving non-innocent ligands. <i>Dalton Transactions</i> , 2007 , 1552-66	4.3	272
532	Analysis and interpretation of metal-radical coupling in a series of square planar nickel complexes: correlated Ab initio and density functional investigation of [Ni(L(ISQ))(2)] (L(ISQ)=3,5-di-tert-butyl-o-diiminobenzosemiquinonate(1-)). <i>Journal of the American Chemical Society</i> , 2003 , 125, 10997-1005	16.4	264
531	An octahedral coordination complex of iron(VI). <i>Science</i> , 2006 , 312, 1937-41	33.3	253
530	Electronic structure of square planar bis(benzene-1,2-dithiolato)metal complexes [M(L)(2)](z) (z = 2-, 1-, 0; M = Ni, Pd, Pt, Cu, Au): an experimental, density functional, and correlated ab initio study. <i>Inorganic Chemistry</i> , 2005 , 44, 5345-60	5.1	243
529	Neutral bis(alpha-iminopyridine)metal complexes of the first-row transition ions (Cr, Mn, Fe, Co, Ni, Zn) and their monocationic analogues: mixed valency involving a redox noninnocent ligand system. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3181-97	16.4	238
528	Aerobic Oxidation of Primary Alcohols by a New Mononuclear Cu(II) -Radical Catalyst. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 1095-8	16.4	236
527	Magnetic properties of an octanuclear iron(III) cation. <i>Inorganic Chemistry</i> , 1993 , 32, 3099-3103	5.1	226
526	From Structural Models of Galactose Oxidase to Homogeneous Catalysis: Efficient Aerobic Oxidation of Alcohols. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 2217-2220	16.4	223

525	Molecular and electronic structures of bis-(o-diiminobenzosemiquinonato)metal(II) complexes (Ni, Pd, Pt), their monocations and -anions, and of dimeric dications containing weak metal-metal bonds. <i>Journal of the American Chemical Society</i> , 2003 , 125, 9116-28	16.4	209
524	Molecular and electronic structure of four- and five-coordinate cobalt complexes containing two o-phenylenediamine- or two o-aminophenol-type ligands at various oxidation levels: an experimental, density functional, and correlated ab initio study. <i>Chemistry - A European Journal</i> ,	4.8	196
523	Synthesis and characterization of $(\mu\text{-hydroxo})\text{bis}(\mu\text{-acetato})\text{diiron(II)}$ and $(\mu\text{-oxo})\text{bis}(\mu\text{-acetato})\text{diiron(III)}$ 1,4,7-trimethyl-1,4,7-triazacyclononane complexes as models for binuclear iron centers in biology; properties of the mixed valence diiron(II,III) species. <i>Journal of the American Chemical Society</i> , 1987 , 109, 7387-7396	16.4	188
522	Photolysis of cis- and trans- $[\text{Fe(III)(cyclam)(N}_3)_2]^+$ Complexes: Spectroscopic Characterization of a Nitridoiron(V) Species. <i>Journal of the American Chemical Society</i> , 1999 , 121, 4859-4876	16.4	186
521	Structural, spectroscopic, and computational study of an octahedral, non-heme $[\text{Fe-NO}](6-8)$ Series: $[\text{Fe(NO)(cyclam-ac)}]_2^{+/-/0}$. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5138-53	16.4	183
520	Description of the ground-state covalencies of the bis(dithiolato) transition-metal complexes from X-ray absorption spectroscopy and time-dependent density-functional calculations. <i>Chemistry - A European Journal</i> , 2007 , 13, 2783-97	4.8	181
519	The Chemistry of 1,4,7-Triazacyclononane and Related Tridentate Macrocyclic Compounds. <i>Progress in Inorganic Chemistry</i> , 2007 , 329-436		178
518	Molecular and electronic structure of octahedral o-aminophenolato and o-iminobenzosemiquinonato complexes of V(V), Cr(III), Fe(III), and Co(III). Experimental determination of oxidation levels of ligands and metal ions. <i>Inorganic Chemistry</i> , 2001 , 40, 4157-66	5.1	168
517	Synthesis and molecular and electronic structures of reduced bis(imino)pyridine cobalt dinitrogen complexes: ligand versus metal reduction. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1676-84	16.4	164
516	Metalloporphyrins with Formally Tetravalent Iron. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 731-735		164
515	The electronic structure of the isoelectronic, square-planar complexes $[\text{Fe(II)(L)}_2]^{2-}$ and $[\text{Co(III)(L Bu)}_2]^-$ (L2- and (L Bu)2- = benzene-1,2-dithiolates): an experimental and density functional theoretical study. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4403-15	16.4	161
514	Spin exchange coupling in asymmetric heterodinuclear complexes containing the $\mu\text{-oxo-bis}(\mu\text{-acetato})\text{dimetal}$ core. <i>Journal of the American Chemical Society</i> , 1992 , 114, 1681-1696	16.4	157
513	Dithiolene radicals: Sulfur K-edge X-ray absorption spectroscopy and Harry's intuition. <i>Coordination Chemistry Reviews</i> , 2011 , 255, 837-860	23.2	156
512	Phenoxy Radical Complexes of Zinc(II). <i>Journal of the American Chemical Society</i> , 1997 , 119, 8889-8900	16.4	149
511	Experimental evidence for the noninnocence of o-aminothiophenolates: coordination chemistry of o-iminothionebenzosemiquinonate(1-) pi-radicals with Ni(II), Pd(II), Pt(II). <i>Journal of the American Chemical Society</i> , 2001 , 123, 10012-23	16.4	148
510	Excited-State Contributions to Ground-State Properties of Mixed-Valence Dimers: Spectral and Electronic-Structural Studies of $[\text{Fe}_2(\text{OH})_3(\text{tmtacn})_2]^{2+}$ Related to the $[\text{Fe}_2\text{S}_2]^+$ Active Sites of Plant-Type Ferredoxins. <i>Journal of the American Chemical Society</i> , 1996 , 118, 8085-8097	16.4	147
509	Electronic structure of 2,2'-bipyridine organotransition-metal complexes. Establishing the ligand oxidation level by density functional theoretical calculations. <i>Inorganic Chemistry</i> , 2011 , 50, 9773-93	5.1	146
508	$[\text{L}_2\text{Mn}_2(\mu\text{-O})(\mu\text{-O}_2)](\text{ClO}_4)_2$. The first binuclear $(\mu\text{-peroxo})\text{dimanganese(IV)}$ complex (L = 1,4,7-trimethyl-1,4,7-triazacyclononane). A model for the S4 \rightarrow S0 transformation in the oxygen-evolving complex in photosynthesis. <i>Journal of the American Chemical Society</i> , 1990 , 112, 6387-6388	16.4	143

507	Synthesis and electronic structure of cationic, neutral, and anionic bis(imino)pyridine iron alkyl complexes: evaluation of redox activity in single-component ethylene polymerization catalysts. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15046-59	16.4	140
506	Moderately strong intramolecular magnetic exchange interaction between the copper(II) ions separated by 11.25 Å. in [L ₂ Cu ₂ (OH) ₂](eta-terephthalato)](ClO ₄) ₂ (L = 1,4,7-trimethyl-1,4,7-triazacyclononane). <i>Journal of the American Chemical Society</i> , 1988 , 110, 3657-3658	16.4	136
505	Dinuclear and mononuclear manganese(IV)-radical complexes and their catalytic catecholase activity. <i>Dalton Transactions</i> , 2004 , 3842-53	4.3	134
504	The geometric and electronic structure of [(cyclam-acetato)Fe(N)] ⁺ : a genuine iron(v) species with a ground-state spin S = 1/2. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2908-12	16.4	134
503	Metal-to-ligand electron transfer in diiminopyridine complexes of Mn-Zn. A theoretical study. <i>Inorganic Chemistry</i> , 2001 , 40, 4649-55	5.1	134
502	The Electronic Structures of an Isostructural Series of Octahedral Nitrosyliron Complexes {FeNO} ₆ , 7, 8 Elucidated by Mössbauer Spectroscopy. <i>Journal of the American Chemical Society</i> , 2000 , 122, 4352-4365	16.4	132
501	A "side-on" superoxonickel complex [LNi(O ₂)] with a square-planar tetracoordinate nickel(II) center and its conversion into [LNi(μ-OH) ₂ NiL]. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7110-3	16.4	129
500	Kinetics, mechanism, and spectroscopy of the reversible binding of nitric oxide to aquated iron(II). An undergraduate text book reaction revisited. <i>Inorganic Chemistry</i> , 2002 , 41, 4-10	5.1	129
499	Control of Iron(II) Spin States in 2,2':6',2'-Terpyridine Complexes through Ligand Substitution. <i>Chemistry - A European Journal</i> , 1999 , 5, 498-508	4.8	125
498	Single-Atom O-Bridged Urea in a Dinickel(II) Complex together with NiII ₄ , CuII ₂ and CuII ₄ Complexes of a Pentadentate Phenol-Containing Schiff Base with (O,N,O,N,O)-Donor Atoms. <i>European Journal of Inorganic Chemistry</i> , 2003 , 2003, 863-875	2.3	124
497	Electronic and molecular structures of the members of the electron transfer series [Cr(tbpy) ₃] ⁿ (n = 3+, 2+, 1+, 0): an X-ray absorption spectroscopic and density functional theoretical study. <i>Inorganic Chemistry</i> , 2011 , 50, 12446-62	5.1	123
496	Oxidative addition of carbon-carbon bonds with a redox-active bis(imino)pyridine iron complex. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17125-37	16.4	121
495	New triply hydroxo-bridged complexes of chromium(III), cobalt(III), and rhodium(III): crystal structure of tris(μ-hydroxo)bis[(1,4,7-trimethyl-1,4,7-triazacyclononane)chromium(III)] triiodide trihydrate. <i>Inorganic Chemistry</i> , 1982 , 21, 3086-3090	5.1	121
494	o-Iminobenzosemiquinonato(1-) and o-amidophenolato(2-) complexes of palladium(II) and platinum(II): a combined experimental and density functional theoretical study. <i>Inorganic Chemistry</i> , 2002 , 41, 4295-303	5.1	117
493	Assembly and structural characterization of binuclear μ-oxo-di-μ-acetato bridged complexes of manganese(III). Analogues of the di-iron(III) centre in hemerythrin. <i>Journal of the Chemical Society Chemical Communications</i> , 1985 , 347-349		114
492	Exchange Coupling in Homo- and Heterodinuclear Complexes CuII ₂ M [M = Cr(III), Mn(III), Mn(II), Fe(III), Co(III), Co(II), Ni(II), Cu(II), Zn(II)]. Synthesis, Structures, and Spectroscopic Properties. <i>Inorganic Chemistry</i> , 1994 , 33, 3990-4001	5.1	112
491	Coordination chemistry of the bimacroyclic, potentially binucleating ligand 1,2-bis(1,4,7-triaza-1-cyclononyl)ethane (dtne). Electrochemistry of its first transition series metal(II,III) complexes. Characterization of the new hemerythrin model complex	5.1	112
490	[Fe ₂ (dtne)(μ-O)(μ-CH ₃ CO ₂) ₂ Br ₂ ·2H ₂ O. <i>Inorganic Chemistry</i> , 1985 , 24, 1230-1235 1,4,7-Triazacyclononane-N,N',N''-triacetate (TCTA), a new hexadentate ligand for divalent and trivalent metal ions. Crystal structures of [CrIII(TCTA)], [FeIII(TCTA)], and Na[CuII(TCTA)].bul.2NaBr.bul.8H ₂ O. <i>Inorganic Chemistry</i> , 1982 , 21, 4308-4314	5.1	112

- 489 Neutral-ligand complexes of bis(imino)pyridine iron: synthesis, structure, and spectroscopy. *Inorganic Chemistry*, **2007**, 46, 7055-63 5.1 109
- 488 Bis(alpha-diimine)nickel complexes: molecular and electronic structure of three members of the electron-transfer series $[\text{Ni}(\text{L})(2)](\text{z})()$ ($\text{z} = 0, 1+, 2+$) ($\text{L} = 2\text{-Phenyl-1,4-bis(isopropyl)-1,4-diazabutadiene}$). A combined experimental and theoretical study. *Inorganic Chemistry*, **2007**, 46, 5327-37 5.1 108
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- 483 Phenylthiyl radical complexes of gallium(III), iron(III), and cobalt(III) and comparison with their phenoxyl analogues. *Journal of the American Chemical Society*, **2001**, 123, 6025-39 16.4 105
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- 478 Tuning the Electronic Structure of Halidobis(o-imino-benzosemiquinonato)iron(III) Complexes. *Angewandte Chemie - International Edition*, **2001**, 40, 2489-2492 16.4 100
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- 466 [Tris(o-iminosemiquinone)cobalt(III)] π radical complex with an $S_t = 3/2$ ground state. *Chemical Communications*, **1999**, 1747-1748 5.8 92
- 465 Re-evaluating the Cu K pre-edge XAS transition in complexes with covalent metal-ligand interactions. *Chemical Science*, **2015**, 6, 2474-2487 9.4 91
- 464 Tetradentate bis(o-iminobenzosemiquinonate(1-)) pi radical ligands and their o-aminophenolate(1-) derivatives in complexes of nickel(II), palladium(II), and copper(II). *Inorganic Chemistry*, **2004**, 43, 2922-31 5.1 91
- 463 1,2-bis(pyridine-2-carboxamido)benzenate(2-), (bpb)2-: a noninnocent ligand. Syntheses, structures, and mechanisms of formation of [(n-Bu)4N][FeIV2(μ -N)(bpb)2(X)2] (X = CN-, N3-) and the electronic structures of [MIII(bpbox1)(CN)2] (M = Co, Fe). *Inorganic Chemistry*, **2000**, 39, 3355-64 5.1 91
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- 461 Nitridocyanometalates of CrV, MnV, and MnVI. *Inorganic Chemistry*, **1998**, 37, 1767-1775 5.1 90
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- 454 Syntheses, electrochemistry, and spectroscopic and magnetic properties of new mononuclear and binuclear complexes of vanadium(III), -(IV, and -(V) containing the tridentate macrocycle 1,4,7-trimethyl-1,4,7-triazacyclononane (L). Crystal structures of [L2V2(acac)2(μ -O)]I2.2H2O, [L2V2O4(μ -O)]1.4H2O, and [L2V2O2(Ot)2(μ -O)](ClO4)2. *Inorganic Chemistry*, **1990**, 29, 263-271 5.1 86

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- 446 Intramolecular Spin Interactions in Bis(phenoxy)metal Complexes of Zinc(II) and Copper(II). *Inorganic Chemistry*, **1999**, 38, 5795-5802 5.1 80
- 445 Phenoxy radical complexes of chromium(III), manganese(III), cobalt(III), and nickel(II). *Inorganica Chimica Acta*, **2000**, 297, 265-277 2.7 79
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