

Thomas Weyhermüller

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#	Paper	IF	Citations
432	Electronic structure of bis(o-aminobenzosemiquinonato)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
431	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
430	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
429	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
428	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
427	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
426	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
425	Oxidative DNA cleavage mediated by a new copper (II) terpyridine complex: crystal structure and DNA binding studies. <i>Journal of Inorganic Biochemistry</i> , 2005 , 99, 2299-307	4.2	224
424	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
423	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> , 2004 , 11, 204-24	4.8	196
422	Cobalt complexes of terpyridine ligand: crystal structure and photocleavage of DNA. <i>Journal of Inorganic Biochemistry</i> , 2007 , 101, 434-43	4.2	194
421	Photolysis of cis- and trans-[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
420	Structural, spectroscopic, and computational study of an octahedral, non-heme [Fe-NO](6-8) Series: [Fe(NO)(cyclam-ac)] ₂ ^{+/+0} . <i>Journal of the American Chemical Society</i> , 2004 , 126, 5138-53	16.4	183
419	Molecular and electronic structure of octahedral o-aminophenolato and o-aminobenzosemiquinonato 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
418	The electronic structure of the isoelectronic, square-planar complexes [Fe(L) ₂] ²⁻ and [Co(III)(L Bu) ₂] ⁻ (L ₂ - 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
417	Phenoxyl Radical Complexes of Zinc(II). <i>Journal of the American Chemical Society</i> , 1997 , 119, 8889-8900	16.4	149
416	Experimental evidence for the noninnocence of o-aminothiophenolates: coordination chemistry of o-aminothiobenzosemiquinonato(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

415	Property-oriented rational design of single-molecule magnets: a C ₃ -symmetric Mn ₆ Cr complex based on three molecular building blocks with a spin ground state of S _T =21/2. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 6033-7	16.4	143
414	[L ₂ Mn ₂ (μ-O) ₂ (μ-O ₂)](ClO ₄) ₂ . The first binuclear (μ-peroxo)dimanganese(IV) complex (L = 1,4,7-trimethyl-1,4,7-triazacyclononane). A model for the S ₄ → S ₀ transformation in the oxygen-evolving complex in photosynthesis. <i>Journal of the American Chemical Society</i> , 1990 , 112, 6387-6388	16.4	143
413	Dinuclear and mononuclear manganese(IV)-radical complexes and their catalytic catecholase activity. <i>Dalton Transactions</i> , 2004 , 3842-53	4.3	134
412	The Electronic Structures of an Isostructural Series of Octahedral Nitrosyliron Complexes {Fe(NO)} _{6,7,8} Elucidated by Mössbauer Spectroscopy. <i>Journal of the American Chemical Society</i> , 2000 , 122, 4352-4365	16.4	132
411	Identification of a spin-coupled Mo(III) in the nitrogenase iron-molybdenum cofactor. <i>Chemical Science</i> , 2014 , 5, 3096-3103	9.4	131
410	Complex Formation of ICL670 and Related Ligands with Fe(III) and Fe(I). <i>European Journal of Inorganic Chemistry</i> , 2004 , 2004, 4177-4192	2.3	128
409	Single-Atom O-Bridged Urea in a Dinickel(II) Complex together with Ni(II), Cu(I) and Cu(II) 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
408	Electronic and molecular structures of the members of the electron transfer series [Cr(tbpv) 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
407	X-ray emission spectroscopy to study ligand valence orbitals in Mn coordination complexes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13161-7	16.4	122
406	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
405	Bis(α-diimine)nickel complexes: molecular and electronic structure of three members of the electron-transfer series [Ni(L) ₂](z) (z = 0, 1+, 2+) (L = 2-Phenyl-1,4-bis(isopropyl)-1,4-diazabutadiene). A combined experimental and theoretical study. <i>Inorganic Chemistry</i> , 2007 , 46, 5327-37	5.1	108
404	Electronic Structure of Antiferromagnetically Coupled Dinuclear Manganese (Mn(III)Mn(IV)) Complexes Studied by Magnetic Resonance Techniques. <i>Journal of the American Chemical Society</i> , 1998 , 120, 13104-13120	16.4	107
403	Square planar vs tetrahedral coordination in diamagnetic complexes of nickel(II) containing two bidentate π-radical monoanions. <i>Inorganic Chemistry</i> , 2005 , 44, 3636-56	5.1	107
402	Phenylthiyl radical complexes of gallium(III), iron(III), and cobalt(III) and comparison with their phenoxy analogues. <i>Journal of the American Chemical Society</i> , 2001 , 123, 6025-39	16.4	105
401	Experimental fingerprints for redox-active terpyridine in [Cr(tpy) ₂](PF ₆) _n (n = 3-0), and the remarkable electronic structure of [Cr(tpy) ₂] ¹⁻ . <i>Inorganic Chemistry</i> , 2012 , 51, 3718-32	5.1	104
400	A tetracopper(II)-tetradical cuboidal core and its reactivity as a functional model of phenoxazinone synthase. <i>Inorganic Chemistry</i> , 2007 , 46, 9895-905	5.1	103
399	Redox-noninnocence of the S,S'-coordinated ligands in bis(benzene-1,2-dithiolato)iron complexes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5641-54	16.4	100
398	Tuning the Electronic Structure of Halido-bis(o-imino-benzosemiquinonato)iron(III) Complexes. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2489-2492	16.4	100

- 397 Tuning the electronic structure of octahedral iron complexes [FeL(X)] (L = 1-alkyl-4,7-bis(4-tert-butyl-2-mercaptobenzyl)-1,4,7-triazacyclononane, X = Cl, CH(3)O, CN, NO). The S = 1/2 3/2 Spin equilibrium of [FeL(Pr)(NO)]. *Inorganic Chemistry*, **2002**, 41, 3444-56 5.1 100
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- 395 Phenoxyl radical complexes of gallium, scandium, iron and manganese. *Chemistry - A European Journal*, **1997**, 3, 308-19 4.8 98
- 394 Tuning the oxidation level, the spin state, and the degree of electron delocalization in homo- and heteroleptic bis(alpha-diimine)iron complexes. *Journal of the American Chemical Society*, **2009**, 131, 1208-214 16.4 97
- 393 Biomimetic metal-radical reactivity: aerial oxidation of alcohols, amines, aminophenols and catechols catalyzed by transition metal complexes. *Biological Chemistry*, **2005**, 386, 1023-33 4.5 96
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- 390 Molecular and electronic structures of tetrahedral complexes of nickel and cobalt containing N,N'-disubstituted, bulky o-diiminobenzosemiquinonate(1-) pi-radical ligands. *Inorganic Chemistry*, **2006**, 45, 6298-307 5.1 94
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- 386 [ReF(6)](2-) : a robust module for the design of molecule-based magnetic materials. *Angewandte Chemie - International Edition*, **2014**, 53, 1351-4 16.4 91
- 385 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
- 384 1,2-bis(pyridine-2-carboxamido)benzenate(2-), (bpb)2-: a noninnocent ligand. Syntheses, structures, and mechanisms of formation of [(n-Bu)4N][FeIV2(mu-N)(bpb)2(X)2] (X = CN-, N3-) and the electronic structures of [MIII(bpb)2(CN)2] (M = Co, Fe). *Inorganic Chemistry*, **2000**, 39, 3355-64 5.1 91
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- 382 Nitridocyanometalates of CrV, MnV, and MnVI. *Inorganic Chemistry*, **1998**, 37, 1767-1775 5.1 90
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- 380 Noninnocence of the ligand glyoxal-bis(2-mercaptoanil). The electronic structures of [Fe(gma)]2, [Fe(gma)(py)] x py, [Fe(gma)(CN)]1-/0, [Fe(gma)I], and [Fe(gma)(PR3)(n)] (n = 1, 2). Experimental and theoretical evidence for "excited state" coordination. *Journal of the American Chemical Society*, **2009**, 131, 1208-214 16.4 87

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378	Exchange and Double-Exchange Phenomena in Linear Homo- and Heterotrinnuclear Nickel(II,III,IV) Complexes Containing Six η -Phenolato or η -Thiophenolato Bridging Ligands. <i>Journal of the American Chemical Society</i> , 1996 , 118, 12376-12390	16.4	84
377	Fluoride bridges as structure-directing motifs in 3d-4f cluster chemistry. <i>Inorganic Chemistry</i> , 2012 , 51, 5435-43	5.1	83
376	Why Does the Active Form of Galactose Oxidase Possess a Diamagnetic Ground State?. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 616-619	16.4	83
375	Polynuclear Nickel(II) Complexes: Preparation and Magnetic Properties of NiII4, NiII5, and NiII6 Species with Ligands containing O?X?O (X = S, Se or N) Donor Atoms. <i>European Journal of Inorganic Chemistry</i> , 2003 , 2003, 3167-3178	2.3	82
374	Nitridomanganese(V) and -(VI) Complexes Containing Macrocyclic Amine Ligands. <i>Journal of the American Chemical Society</i> , 1998 , 120, 7260-7270	16.4	81
373	Structural characterization of four members of the electron-transfer series [PdII(L)2]n (L = o-Iminophenolate derivative; n = 2-, 1-, 0, 1+, 2+). ligand mixed valency in the monocation and monoanion with S = (1)/(2) ground states. <i>Inorganic Chemistry</i> , 2005 , 44, 3709-17	5.1	81
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370	Synthesis, characterization and DNA binding studies of new ruthenium(II)bisterpyridine complexes. <i>European Journal of Medicinal Chemistry</i> , 2010 , 45, 284-91	6.8	78
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364	Molecular and electronic structure of five-coordinate complexes of iron(II/III) containing o-diiminobenzosemiquinonate(1-) pi radical ligands. <i>Inorganic Chemistry</i> , 2005 , 44, 7087-98	5.1	76
363	Electronic Structure of Linear Thiophenolate-Bridged Heterotrinnuclear Complexes [LF _n MFeL] _{n+} (M = Cr, Co, Fe; n = 1B): Localized vs Delocalized Models. <i>Journal of the American Chemical Society</i> , 1999 , 121, 2193-2208	16.4	76
362	Mixed-valent [FeIV(mu-O)(mu-carboxylato)2FeIII]3+ core. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15554-70	16.4	75

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- 353 Ruthenium Complexes Containing "Noninnocent" o-Benzoquinone Diimine/o-Phenylenediamide(2-) Ligands. Synthesis and Crystal Structure of the Nitrido-Bridged Complex [Ru(o-C(6)H(4)(NH)(2))₂](PF₆)₂·3CH₃CN·C(6)H(5)CH(3). *Inorganic Chemistry*, **1998**, 37, 35-43 5.1 69
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