Philippe Schollhammer

List of Publications by Year
in descending order

109	3,963	126858	133188
papers	citations	33 h-index	59 g-index

123	123	123	1345
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electron and proton transfers at diiron dithiolate sites relevant to the catalysis of proton reduction by the [FeFe]-hydrogenases. Coordination Chemistry Reviews, 2009, 253, 1476-1494.	9.5	298
2	Catalysis of the electrochemical H evolution by di-iron sub-site models. Coordination Chemistry Reviews, 2005, 249, 1664-1676.	9.5	253
3	Evidence for the Formation of Terminal Hydrides by Protonation of an Asymmetric Iron Hydrogenase Active Site Mimic. Inorganic Chemistry, 2007, 46, 3426-3428.	1.9	209
4	N-Heterocyclic Carbene Ligands as Cyanide Mimics in Diiron Models of the All-Iron Hydrogenase Active Site. Organometallics, 2005, 24, 2020-2022.	1.1	149
5	Influence of a Pendant Amine in the Second Coordination Sphere on Proton Transfer at a Dissymmetrically Disubstituted Diiron System Related to the [2Fe]_H Subsite of [FeFe]H₂ase. Inorganic Chemistry, 2009, 48, 2-4.	1.9	147
6	N-Heterocyclic Carbene Ligands in Nonsymmetric Diiron Models of Hydrogenase Active Sites. Organometallics, 2007, 26, 2042-2052.	1.1	141
7	Electrochemical proton reduction by thiolate-bridged hexacarbonyldiiron clusters. Journal of Electroanalytical Chemistry, 2004, 566, 241-247.	1.9	135
8	Activation of proton by the two-electron reduction of a di-iron organometallic complex. Journal of Electroanalytical Chemistry, 2006, 595, 47-52.	1.9	119
9	Electrochemical and theoretical investigations of the reduction of [Fe2(CO)5L{Âµ-SCH2XCH2S}] complexes related to [FeFe] hydrogenase. New Journal of Chemistry, 2007, 31, 2052.	1.4	98
10	Electron-Transfer-Catalyzed Rearrangement of Unsymmetrically Substituted Diiron Dithiolate Complexes Related to the Active Site of the [FeFe]-Hydrogenases. Inorganic Chemistry, 2007, 46, 9863-9872.	1.9	98
11	Electrochemical Insights into the Mechanisms of Proton Reduction by [Fe₂(CO)₆{Î¼â€SCH₂N(R)CH₂S}] Complexes Related to the [2Fe]_H Subsite of [FeFe]Hydrogenase. Chemistry - A European Journal, 2008, 14, 1954-1964.	1.7	95
12	Organometallic Diiron Complex Chemistry Related to the [2Fe]_H Subsite of [FeFe]H₂ase. European Journal of Inorganic Chemistry, 2008, 2008, 4671-4681.	1.0	76
13	Di-Iron Aza Diphosphido Complexes:Â Mimics for the Active Site of Fe-Only Hydrogenase, and Effects of Changing the Coordinating Atoms of the Bridging Ligand in [Fe2{Î¼-(ECH2)2NR}(CO)6]. Inorganic Chemistry, 2004, 43, 8203-8205.	1.9	66
14	Use of 1,10-phenanthroline in diiron dithiolate derivatives related to the [Feâ€“Fe] hydrogenase active site. Dalton Transactions, 2007, , 3754.	1.6	65
15	Electrochemical proton reduction at mild potentials by monosubstituted diiron organometallic complexes bearing a benzenedithiolate bridge. Journal of Electroanalytical Chemistry, 2007, 603, 15-20.	1.9	63
16	Dinuclear molybdenum thiolato-bridged compounds: syntheses, reactivities and electrochemical studies of siteâ€“substrate interactions. Coordination Chemistry Reviews, 1998, 178-180, 203-247.	9.5	62
17	Chemically modified electrode based on an organometallic model of the [FeFe] hydrogenase active center. Electrochemistry Communications, 2005, 7, 427-430.	2.3	62
18	New Fe^Iâ€“Fe^I Complex Featuring a Rotated Conformation Related to the [2â€‰Fe]_H Subsite of [Feâ€“Fe] Hydrogenase. Chemistry - A European Journal, 2013, 19, 15458-15461.	1.7	56

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19	Reactions of Di- and Polynuclear Complexes. 14. Synthesis of Permethylated-Cyclopentadienyl Chalcogeno-Bridged Compounds: A Route to the Stable Thiolatosulfidocarbonyldimolybdenum(III) Complex [Cp*2Mo2(CO)2(.mu.-SMe)2(.mu.-S)]. Crystal Structure Determination of [Cp*2Mo2(CO)2(.mu.-SMe)2(.mu.-SH)][BF4]. Organometallics, 1995, 14, 2277-2287.	1.1	53
20	Effect of Electron-Withdrawing Dithiolate Bridge on the Electron-Transfer Steps in Diiron Molecules Related to [2Fe]_H Subsite of the [FeFe]-Hydrogenases. Inorganic Chemistry, 2010, 49, 2496-2501.	1.9	52
21	Electrochemical study of the role of a H-bridged, unsymmetrically disubstituted diiron complex in proton reduction catalysis. Journal of Electroanalytical Chemistry, 2009, 626, 161-170.	1.9	49
22	Electrochemical and Theoretical Investigations of the Role of the Appended Base on the Reduction of Protons by		

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37	Oxidatively Induced Reactivity of [Fe₂(CO)₄(Î²²-dppe)(Î¼-pdt)]: an Electrochemical and Theoretical Study of the Structure Change and Ligand Binding Processes. Inorganic Chemistry, 2011, 50, 12575-12585.	1.9	33
38	Electrochemical deprotection of a substrate binding site in [Mo2(cp)2(Âµ-SMe)3(Âµ-Cl)](cp =Î·5-C5H5)via chloride-bridge opening. Kinetics of MeCN and ButNC binding at this site. Journal of the Chemical Society Dalton Transactions, 1996, , 3967-3976.	1.1	32
39	Electrochemical Synthesis of Mono- and Disubstituted Diiron Dithiolate Complexes as Models for the Active Site of Iron-Only Hydrogenases. European Journal of Inorganic Chemistry, 2007, 2007, 5062-5068.	1.0	32
40	Investigation on the Protonation of a Trisubstituted [Fe₂(CO)₃(PPh₃)(Î²²-phen)(Î¼-pdt)] Complex: Rotated versus Unrotated Intermediate Pathways. Inorganic Chemistry, 2010, 49, 5003-5008.	1.9	31
41	Diiron species containing a cyclic P^{Ph}₂N^{Ph}₂diphosphine related to the [FeFe]H₂ases active site. Chemical Communications, 2011, 47, 878-880.	2.2	31
42	Reaction of BH4â^'with {Mo2Cp2(Î¼-SMe)n} species to give tetrahydroborato, hydrido or dimetallaborane compounds: control of product by ancillary ligands. Dalton Transactions, 2004, , 2708-2719.	1.6	30
43	A Novel [FeFe] Hydrogenase Model with a (SCH2)2Pâ•O Moiety. Organometallics, 2013, 32, 4523-4530.	1.1	30
44	Siliconâ€“Heteroaromatic [FeFe] Hydrogenase Model Complexes: Insight into Protonation, Electrochemical Properties, and Molecular Structures. Chemistry - A European Journal, 2015, 21, 5061-5073.	1.7	30
45	Electrocatalytic dihydrogen evolution mechanism of [Fe2(CO)4(Î²2-Ph2PCH2CH2PPh2)(Î¼-S(CH2)3S)] and related models of the [FeFe]-hydrogenases active site: a DFT investigation. Dalton Transactions, 2010, 39, 7320.	1.6	29
46	Unexpected Coupling of Cp and Two RNC Ligands at a {Mo2(Î¼-SMe)3} Nucleus. Organometallics, 2003, 22, 4178-4180.	1.1	28
47	Ligand effects on the electrochemical behavior of [Fe2(CO)5(L){Î¼-(SCH2)2(Ph)Pî€Ö}] (L = PPh3, P(OEt)3) hydrogenase model complexes. Dalton Transactions, 2015, 44, 7177-7189.	1.6	25
48	Proton Shuttle Mediated by (SCH₂)₂Pâ•O Moiety in [FeFe]-Hydrogenase Mimics: Electrochemical and DFT Studies. ACS Catalysis, 2021, 11, 7080-7098.	5.5	25
49	Tuning of electron transfer in diiron azo-bridged complexes relevant to hydrogenases. International Journal of Hydrogen Energy, 2010, 35, 10797-10802.	3.8	23
50	Acetonitrile hydration versus molybdenum oxidation at the sulfur-rich bimetallic site {MoIII2Cp2(Î¼-SMe)3}+. Crystal structure of the Î¼-Î·1â€…â^¶â€…Î·1-amidato complex [Mo2Cp2(Î¼-MeCONH)(Î¼-SMe)3]. Dalton Transactions RSC, 2001, , 1573-1577.	2.3	20
51	Reactions of dinuclear and polynuclear complexes XVI. Chemistry of hydrido-, thiolato-bridged complexes [Mo2Cp2(Î¼-H)(Î¼-SR)(CO)4] (R î—» Me, Ph): Reactivity and electrochemical behaviour; crystal structure of [Mo2Cp2(Î¼-SPh) {Î¼-Ïƒ : Î·2-C(CH3) î—» CHCH3}(CO)2]. Journal of Organometallic Chemistry, 1996, 513, 181-192.	0.8	19
52	Electrochemical Reduction of a Bridging Imide: Generation of Ammonia at a Dimolybdenum Tris(Î¼-thiolate) Site. Chemistry - A European Journal, 2000, 6, 3033-3042.	1.7	19
53	Transformations of Hydrazines RNHNH2 (R = Me, Ph) at a Sulfur-Rich Bimetallic Site: Diazeneâ^'Diazenidoâ^'Isodiazene/Hydrazido(2â^') Interconversions. European Journal of Inorganic Chemistry, 2002, 2002, 658-663.	1.0	19
54	Formation of Câ^'C, Câ^'N, and Câ^'O Links between Isonitrile, Cyclopentadienyl, and Hydroxide Ligands Bound to Molybdenum(III):â€‰ Syntheses and Crystal Structures of Î¼-Aminocarbyne and Î¼-Amino-oxycarbene Dimolybdenum Complexes. Organometallics, 2006, 25, 4009-4018.	1.1	19

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55	Controlled nucleophilic activation of different sites in [Mo2Cp2L2(Î¼-SMe)2(Î¼-Lâ€²)]+ cations (L=ButNC,) Tj ETQq1 1 0.784314 rgBT	0.8	18
56	Î¼-Alkylidyne and Î¼-Alkylidene Complexes from a Bridging Side-on Vinylidene Sulfur-Rich Dimolybdenum Precursor. Organometallics, 2002, 21, 448-450.	1.1	17
57	Carboxy-functionalized dithiolate di-iron complexes related to the active site of Fe-only hydrogenase. Journal of Organometallic Chemistry, 2007, 692, 4177-4181.	0.8	17
58	Novel Î¼-Î·2:Î·2 Coordination of a Thiophenium Cation. Organometallics, 1999, 18, 2055-2057.	1.1	16
59	Electrochemical oxidation and protonation of a bridging amide ligand at a dinuclear metalâ€“sulfur siteâ€Šâ€. Journal of the Chemical Society Dalton Transactions, 1997, , 4019-4024.	1.1	15
60	Reactions of dinuclear and polynuclear complexes. Part 18 substitution reactions of a Î¼-chloro or a Î¼-thiolato ligand in the dinuclear cyclopentadienyl molybdenum(III) complex [Cp2Mo2(Î¼-Cl)(Î¼-SMe)3]: Crystal structure of [Cp2Mo2(Î¼-SCH2CH2SH)(Î¼-SMe)3] Â· 0.5CH2Cl2. Journal of Organometallic Chemistry, 1997, 539, 193-199.	0.8	15
61	Generation of substrate-binding sites by electrochemical reduction of cis-[Fe2(cp)2(Î¼-SMe)2(MeCN)(L)]2+ (Lâ€¦=â€¦CO or MeCN). Reactivity of the sites toward CO and tBuNC. Crystal structure of [Fe2(cp)2(Î¼-SMe)2(CO)(MeCN)][BF4]2Â·CH2Cl2. Journal of the Chemical Society Dalton Transactions, 1999, , 2371-2384.	1.1	15
62	Influence of the Dithiolate Bridge on the Oxidative Processes of Diiron Models Related to the Active Site of [FeFe] Hydrogenases. Chemistry - A European Journal, 2017, 23, 4364-4372.	1.7	15
63	Electrochemical and Theoretical Investigations of the Oxidatively Induced Reactivity of the Complex [Fe₂(CO)₄(Î²²â€dmpe)(Î¼â€adt^{Bn})] Related to the Active Site of [FeFe] Hydrogenases. Chemistry - A European Journal, 2018, 24, 15036-15051.	1.7	15
64	A Î¼-Î·1-Azavinylidene Complex: Intramolecular Condensation of Two Acetonitrile Ligands at a Dinuclear Molybdenum(III) Site. European Journal of Inorganic Chemistry, 1999, 1999, 221-223.	1.0	13
65	Hydride transfer reactions in dimolybdenum compounds: a simple route to the novel Î¼-Î·1âˆ¶Î·1-tetrahydroboride complex [Mo2Cp2(Î¼-SMe)3(Î¼-BH4)]. Chemical Communications, 2000, , 2137-2138.	2.2	13
66	Transformations and Agostic Interactions of Hydrocarbyl Ligands Bonded to the Sulfur-Rich Dimolybdenum Site {Mo2Cp2(Î¼-SMe)3}:â€‰ Chemical and Electrochemical Formation of Î¼-Alkyl and Î¼-Vinyl Compounds from a Î¼-Alkylidene Derivative. Organometallics, 2005, 24, 6268-6278.	1.1	13
67	Recent advances in the chemistry of tris(thiolato) bridged cyclopentadienyl dimolybdenum complexes. Coordination Chemistry Reviews, 2017, 331, 73-92.	9.5	13
68	Addressing the Reproducibility of Photocatalytic Carbon Dioxide Reduction. ChemCatChem, 2020, 12, 1603-1608.	1.8	13
69	A Bridging Side-on Allenylidene Dimolybdenum Complex without Carbonyl Stabilization. Organometallics, 2006, 25, 5503-5505.	1.1	12
70	Formation of New Î¼-Thioalkylidene and Î¼-Borohydride Dimolybdenum Complexes from the Î¼-Alkylidyne Precursor [Mo2Cp2(Î¼-SMe)3(Î¼-CCH2Ph)]. Organometallics, 2007, 26, 3607-3610.	1.1	12
71	A Diferrous Dithiolate as a Model of the Elusive H_{ox}^{inact} State of the [FeFe] Hydrogenases: An Electrochemical and Theoretical Dissection of Its Redox Chemistry. Inorganic Chemistry, 2015, 54, 299-311.	1.9	12
72	Reactions of di- and polynuclear complexes. Journal of Organometallic Chemistry, 1991, 411, 159-170.	0.8	11

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73	Reactions of di- and poly-nuclear complexes. 17. Isolation and reactivity of Î¼-oxo dinuclear molybdenum (IV) thiolato-bridged complexes containing terminal and bridging chloride or bromide groups [(Î½-C5Me5)MoX]2(Î¼-X)(Î¼-O)(Î¼-SMe)(X î—»Cl, Br); crystal structure of [(Î½-C5Me5)MoBr]2(Î¼-Br)(Î¼-O)(Î¼-SMe). Inorganica Chimica Acta, 1997, 257, 153-161.	1.2	11
74	Reactivity of [Fe₂(CO)₆(Î¼-S₂)] toward a Base-Containing Diphosphine (Ph₂PCH₂)₂NCH₃: Formation of Diiron Carbonyl Compounds Having Polydentate Heterofunctionalized Phosphine (PNS =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 697 Td (Ph<su (Ph₂PS = PS) Bridges. Organometallics, 2010, 29, 1296-1301.		
75	A New FeMo Complex as a Model of Heterobimetallic Assemblies in Natural Systems: MÃ¶ssbauer and Density Functional Theory Investigations. Inorganic Chemistry, 2014, 53, 11345-11347.	1.9	11
76	Incorporation of alkyne and vinylidene ligands into tetrazolate groups at a sulfur-rich dimolybdenum site using sodium azide. Inorganica Chimica Acta, 2003, 350, 495-502.	1.2	10
77	Diiron Complexes with a [2Fe3S] Core Related to the Active Site of [FeFe]H2ases. European Journal of Inorganic Chemistry, 2011, 2011, 1038-1042.	1.0	10
78	New Systematic Route to Mixed-Valence Triiron Clusters Derived from Dinuclear Models of the Active Site of [Feâ€“Fe]-Hydrogenases. Organometallics, 2014, 33, 6290-6293.	1.1	10
79	Oxo-functionalised mesoionic NHC nickel complexes for selective electrocatalytic reduction of CO₂ to formate. Green Chemistry, 2021, 23, 3365-3373.	4.6	10
80	Electrochemical Studies of Complexes with Oxo- or Hydroxo-Bridged {Mo2(Âµ-SMe)3}+ Centers: Cleavage of the Oxygen Bridge and Generation of Substrate-Binding Sites. European Journal of Inorganic Chemistry, 2004, 2004, 1687-1700.	1.0	9
81	Influence of the initial bonding mode of the hydrocarbyl bridge on the mechanisms and products of the electrochemical reduction of alkyne- and vinylidene dimolybdenum tris(Âµ-thiolate) complexes. New Journal of Chemistry, 2007, 31, 265-276.	1.4	9
82	Activation of propargylic alcohols by dimolybdenum tris(Î¼-thiolate) complexes: Influence of the substituents R in HCCCR2(OH)-vinylidene/allenylidene transformation. Reactivity of allenylidene complexes. Journal of Organometallic Chemistry, 2007, 692, 5351-5367.	0.8	9
83	Mononuclear copper(II) complexes containing a macrocyclic ditopic ligand: Synthesis, structures and properties. Inorganica Chimica Acta, 2019, 497, 119081.	1.2	9
84	Synthesis, Characterization and Electrochemical Reductive Properties of Complexes [Fe₂(CO)₄(Î²²â€P^{Ph}₂N^R₂)(Âµâ€dith Related to the Hâ€Cluster of [FeFe]â€H₂ases. European Journal of Inorganic Chemistry, 2021, 2021, 205-216.	1.0	9
85	Reductive Behavior of [Fe₂(CO)₄(Î²²â€dmpe){Î¼â€(SCH₂)₂NBn}]: Effect of Symmetrization on the Rotated Conformation in Fe^Iâ€Fe^I Models of [2Fe]_H Subsite of [Feâ€Fe]ÂH₂ases. European Journal of Inorganic Chemistry,	1.0	8
86	Insights into the Twoâ€Electron Reductive Process of [FeFe]H₂ase Biomimetics: Cyclic Voltammetry and DFT Investigation on Chelate Control of Redox Properties of [Fe₂(CO)₄(Î²²â€Chelate)(Î¼â€Dithiolate)]. Chemistry - A European Journal, 2020, 26, 17536-17545.	1.7	8
87	Electrocatalytic Proton Reduction by a Cobalt Complex Containing a Protonâ€Responsive Bis(alkylimdazole)methane Ligand: Involvement of a Câ^'H Bond in H₂Formation. Chemistry - A European Journal, 2020, 26, 12560-12569.	1.7	8
88	cis- and trans-Bis(1-phenyl-2,3,4,5-tetramethylphosphole)tetracarbonylmolybdenum(0), [Mo(CO)4(tmpPh)2]. Syntheses and structures. Journal of Organometallic Chemistry, 2001, 622, 297-301.	0.8	7
89	Unexpected formation of the novel mixed Î¼-oxo, Î¼-sulfido, bis(Î¼-thiolato) compound [Mo(IV)2Cp2(Î¼-O)(Î¼-S)(Î¼-SMe)2]. Journal of Organometallic Chemistry, 2001, 627, 67-70.	0.8	7
90	Oxidatively-induced Î¼-Î·1â†' Î¼-Î·1:Î·1rearrangement of {Nî€N} ligands at a {Mo2(Î¼-SMe)3} site and protonation of the oxidized diazenido complex. New Journal of Chemistry, 2006, 30, 929-938.	1.4	7

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91	Methylation sites in tris(Î¼-thiolato)dimolybdenum(III) complexes. Journal of Organometallic Chemistry, 2006, 691, 566-572.	0.8	7
92	Mixed Î¼-phosphido or Î¼-thiolato Î¼-halo-dimolybdenum(III) compounds [Mo2Cp2(Î¼-SMe)2(Î¼-X)(Î¼-Y)] (X=PPh2,) Tj ETQq0 0 0 rg [{Mo2Cp2Br(Î¼-O)(Î¼-SMe)2}2(Î¼-MoO4)]. Journal of Organometallic Chemistry, 2006, 691, 898-906.	0.8	7
93	Phosphorusâ€“carbon(pyridyl) bond cleavage on reacting diphenyl-2-pyridylphosphine with triiron dodecacarbonyl. Inorganica Chimica Acta, 2011, 376, 641-644.	1.2	7
94	Mononuclear iron(<scp>ii</scp>) complexes containing a tripodal and macrocyclic nitrogen ligand: synthesis, reactivity and application in cyclohexane oxidation catalysis. Dalton Transactions, 2018, 47, 15596-15612.	1.6	7
95	FeMo Heterobimetallic Dithiolate Complexes: Investigation of Their Electron Transfer Chemistry and Reactivity toward Acids, a Density Functional Theory Rationalization. Inorganic Chemistry, 2019, 58, 679-694.	1.9	7
96	Reactions of dinuclear and polynuclear complexes XV. Reinvestigation of the reaction between [pMo(CO)3H], allyl chloride and dimethyl disulfide: Crystal structure of		

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109	Phosphorus Functionalized Carbenes: Synthesis and Coordination Properties. Phosphorus, Sulfur and Silicon and the Related Elements, 2008, 183, 669-670.	0.8	0