Marcetta Y Darensbourg

List of Publications by Year in Descending Order

291 papers	12,018 citations	56 h-index	95 g-index
349 ext. papers	12,870 ext. citations	8.4 avg, IF	6.19 L-index

#	Paper	IF	Citations
291	Organometallic Chemistry Control of Hydrogenases **2021**, 275-300		2
290	Self-Assembled Nickel-4 Supramolecular Squares and Assays for HER Electrocatalysts Derived Therefrom. *Inorganic Chemistry*, **2021**, 60, 7051-7061	5.1	
289	Linear and Bent Nitric Oxide Ligand Binding in an Asymmetric Butterfly Complex:. *Inorganic Chemistry*, **2021**, 60, 15975-15979	5.1	0
288	Copolymerization of propylene oxide and 13CO2 to afford completely alternating regioregular 13C-labeled Poly(propylene carbonate). *Polymer Journal*, **2021**, 53, 215-218	2.7	1
287	Zinc thiotropolone combinations as inhibitors of the SARS-CoV-2 main protease. *Dalton Transactions*, **2021**, 50, 12226-12233	4.3	2
286	Dinitrosyl iron complexes (DNICs) as inhibitors of the SARS-CoV-2 main protease. *Chemical Communications*, **2021**, 57, 8352-8355	5.8	3
285	Synthetic Metallodithiolato Ligands as Pendant Bases in [FeFe], [Fe[Fe(NO)]], and [(H)FeFe] Complexes. *Inorganic Chemistry*, **2020**, 59, 3753-3763	5.1	4
284	Metal-Templated, Tight Loop Conformation of a Cys-X-Cys Biomimetic Assembles a Dimanganese Complex. *Angewandte Chemie - International Edition*, **2020**, 59, 3645-3649	16.4	1
283	Metal-Templated, Tight Loop Conformation of a Cys-X-Cys Biomimetic Assembles a Dimanganese Complex. *Angewandte Chemie*, **2020**, 132, 3674-3678	3.6	
282	Effects of Glutathione and Histidine on NO Release from a Dimeric Dinitrosyl Iron Complex (DNIC). *Inorganic Chemistry*, **2020**, 59, 16998-17008	5.1	4
281	The roles of chalcogenides in O protection of Hase active sites. *Chemical Science*, **2020**, 11, 9366-9377	9.4	2
280	Controlling O Reactivity in Synthetic Analogues of [NiFeS]- and [NiFeSe]-Hydrogenase Active Sites. *Journal of the American Chemical Society*, **2019**, 141, 15338-15347	16.4	10
279	Oxygen uptake in complexes related to [NiFeS]- and [NiFeSe]-hydrogenase active sites. *Chemical Science*, **2019**, 10, 1368-1373	9.4	21
278	Proton affinity studies of nickel NS complexes and control of aggregation. *Journal of Biological Inorganic Chemistry*, **2019**, 24, 909-917	3.7	3
277	Toward the Optimization of Dinitrosyl Iron Complexes as Therapeutics for Smooth Muscle Cells. *Molecular Pharmaceutics*, **2019**, 16, 3178-3187	5.6	16
276	Connecting Main-Group Metals (Al, Ga, In) and Tungsten(0) Carbonyls via the N2S2 Metallo-Ligand Strategy. *Inorganics*, **2019**, 7, 115	2.9	2
275	Cyanide Docking and Linkage Isomerism in Models for the Artificial [FeFe]-Hydrogenase Maturation Process. *Journal of the American Chemical Society*, **2018**, 140, 9904-9911	16.4	5

274	Bridging cyanides from cyanoiron metalloligands to redox-active dinitrosyl iron units. *Dalton Transactions*, **2018**, 47, 11812-11819	4.3	5
273	Structural and Electronic Responses to the Three Redox Levels of Fe(NO)N S -Fe(NO). *Chemistry - A European Journal*, **2018**, 24, 16003-16008	4.8	7
272	Oxygen-Tolerant H Production by [FeFe]-Hase Active Site Mimics Aided by Second Sphere Proton Shuttle. *Journal of the American Chemical Society*, **2018**, 140, 12457-12468	16.4	41
271	SYNTHESIS OF SELECTED TRANSITION METAL AND MAIN GROUP COMPOUNDS WITH SYNTHETIC APPLICATIONS. *Inorganic Syntheses*, **2018**, 155-204		1
270	Beyond fossil fuel-driven nitrogen transformations. *Science*, **2018**, 360,	33.3	772
269	Complexes of MNSFe(CR)(CO) as platform for exploring cooperative heterobimetallic effects in HER electrocatalysis. *Dalton Transactions*, **2017**, 46, 5617-5624	4.3	20
268	Discrete Air-Stable Nickel(II)Palladium(II) Complexes as Catalysts for SuzukiMiyaura Reactions. *Organometallics*, **2017**, 36, 1822-1827	3.8	9
267	Comparisons of MNSvs. bipyridine as redox-active ligands to manganese and rhenium in (L-L)M(CO)Cl complexes. *Dalton Transactions*, **2017**, 46, 5175-5182	4.3	10
266	Toward biocompatible dinitrosyl iron complexes: sugar-appended thiolates. *Chemical Communications*, **2017**, 53, 1180-1183	5.8	18
265	Interplay of hemilability and redox activity in models of hydrogenase active sites. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9775-E9782	11.5	33
264	A matrix of heterobimetallic complexes for interrogation of hydrogen evolution reaction electrocatalysts. *Chemical Science*, **2017**, 8, 8291-8300	9.4	38
263	Hemilabile Bridging Thiolates as Proton Shuttles in Bioinspired H Production Electrocatalysts. *Journal of the American Chemical Society*, **2016**, 138, 12920-12927	16.4	64
262	Approaches to quantifying the electronic and steric properties of metallodithiolates as ligands in coordination chemistry. *Coordination Chemistry Reviews*, **2016**, 324, 82-89	23.2	16
261	Preface for Small Molecule Activation: From Biological Principles to Energy Applications. Part 3: Small Molecules Related to (Artificial) Photosynthesis. *Inorganic Chemistry*, **2016**, 55, 371-7	5.1	10
260	Catalysis and Mechanism of H2 Release from Amine-Boranes by Diiron Complexes. *Inorganic Chemistry*, **2016**, 55, 964-73	5.1	32
259	Iron(0) mediated C-H activation of 1-hexyne: a mechanistic study using time-resolved infrared spectroscopy. *Dalton Transactions*, **2016**, 45, 12292-6	4.3	0
258	Cyanide-bridged iron complexes as biomimetics of tri-iron arrangements in maturases of the H cluster of the di-iron hydrogenase. *Chemical Science*, **2016**, 7, 3710-3719	9.4	17
257	Ligand Displacement Reaction Paths in a Diiron Hydrogenase Active Site Model Complex. *Chemistry - A European Journal*, **2016**, 22, 12752-60	4.8	3

256	Synthetic advances inspired by the bioactive dinitrosyl iron unit. *Accounts of Chemical Research*, **2015**, 48, 2049-58	24.3	41
255	Regioselectivity in ligand substitution reactions on diiron complexes governed by nucleophilic and electrophilic ligand properties. *Inorganic Chemistry*, **2015**, 54, 3523-35	5.1	11
254	Metallodithiolates as ligands in coordination, bioinorganic, and organometallic chemistry. *Chemical Reviews*, **2015**, 115, 5248-73	68.1	104
253	A reduced 2Fe2S cluster probe of sulfur-hydrogen versus sulfur-gold interactions. *Angewandte Chemie - International Edition*, **2015**, 54, 11102-6	16.4	9
252	A Reduced 2Fe2S Cluster Probe of Sulfur□Hydrogen versus Sulfur□Gold Interactions. *Angewandte Chemie*, **2015**, 127, 11254-11258	3.6	1
251	The ligand unwrapping/rewrapping pathway that exchanges metals in -acetylated, hexacoordinate NSO complexes. *Chemical Science*, **2015**, 6, 7079-7088	9.4	5
250	Addendum to Immobilization-Enabled Proton-Reduction Catalysis by a Di-iron Hydrogenase Mimic. *Electrocatalysis*, **2014**, 5, 113-113	2.7	1
249	Versatile N2S2 nickel-dithiolates as mono- and bridging bidentate, S-donor ligands to gold(I). *Dalton Transactions*, **2014**, 43, 138-44	4.3	7
248	Molecular catalysis that transpires only when the complex is heterogenized: Studies of a hydrogenase complex surface-tethered on polycrystalline and (1 1 1)-faceted gold by EC, PM-FT-IRRAS, HREELS, XPS and STM. *Journal of Electroanalytical Chemistry*, **2014**, 716, 63-70	4.1	7
247	Hammett correlations as test of mechanism of CO-induced disulfide elimination from dinitrosyl iron complexes. *Chemical Science*, **2014**, 5, 3795-3802	9.4	10
246	Conformational Mobility and Pendent Base Effects on Electrochemistry of Synthetic Analogues of the [FeFe]-Hydrogenase Active Site. *Organometallics*, **2014**, 33, 4747-4755	3.8	39
245	Metallodithiolates as ligands to dinitrosyl iron complexes: toward the understanding of structures, equilibria, and spin coupling. *Inorganic Chemistry*, **2014**, 53, 9095-105	5.1	14
244	Heterogenization of a Water-Insoluble Molecular Complex for Catalysis of the Proton-Reduction Reaction in Highly Acidic Aqueous Solutions. *Electrocatalysis*, **2014**, 5, 226-228	2.7	2
243	Intramolecular iron-mediated C-H bond heterolysis with an assist of pendant base in a [FeFe]-hydrogenase model. *Journal of the American Chemical Society*, **2014**, 136, 16817-23	16.4	34
242	Electrocatalytic O□reduction by [Fe-Fe]-hydrogenase active site models. *Journal of the American Chemical Society*, **2014**, 136, 8847-50	16.4	42
241	N,N?-Bis(Mercaptoethyl)-1,4-Diazacycloheptane (H2BME-DACH) and its Nickel Complex: A Model for Bioinorganic Chemistry. *Inorganic Syntheses*, **2014**, 231-240		3
240	The Bioorganometallic Chemistry of Hydrogenase **2014**, 239-272		4
239	Redox active iron nitrosyl units in proton reduction electrocatalysis. *Nature Communications*, **2014**, 5, 3684	17.4	47

238	Immobilization-Enabled Proton Reduction Catalysis by a Di-iron Hydrogenase Mimic. *Electrocatalysis*, **2014**, 5, 5-7	2.7	4
237	A dinitrosyl iron complex as a platform for metal-bound imidazole to N-heterocyclic carbene conversion. *Chemical Communications*, **2013**, 49, 9326-8	5.8	19
236	Hyperfine interactions and electron distribution in Fe(II)Fe (I) and Fe (I)Fe (I) models for the active site of the [FeFe]□hydrogenases: M□ssbauer spectroscopy studies of low-spin Fe(I.). *Journal of Biological Inorganic Chemistry*, **2013**, 18, 609-22	3.7	11
235	Ambidentate thiocyanate and cyanate ligands in dinitrosyl iron complexes. *Inorganic Chemistry*, **2013**, 52, 2119-24	5.1	32
234	Dinitrosyl iron adducts of (N2S2)M(NO) complexes (M = Fe, Co) as metallodithiolate ligands. *Polyhedron*, **2013**, 58, 151-155	2.7	12
233	Bridging-hydride influence on the electronic structure of an [FeFe] hydrogenase active-site model complex revealed by XAES-DFT. *Dalton Transactions*, **2013**, 42, 7539-54	4.3	26
232	Carbon monoxide induced reductive elimination of disulfide in an N-heterocyclic carbene (NHC)/thiolate dinitrosyl iron complex (DNIC). *Journal of the American Chemical Society*, **2013**, 135, 8423-30	16.4	24
231	Comparisons of zinc with cadmium in N2S2 coordination and as S-bonded adducts to tungsten carbonyls. *Dalton Transactions*, **2012**, 41, 143-8	4.3	6
230	Time resolved infrared spectroscopy: kinetic studies of weakly binding ligands in an iron-iron hydrogenase model compound. *Inorganic Chemistry*, **2012**, 51, 7362-9	5.1	8
229	Structural and spectroscopic features of mixed valent Fe(II)Fe(I) complexes and factors related to the rotated configuration of diiron hydrogenase. *Journal of the American Chemical Society*, **2012**, 134, 13089-102	16.4	73
228	Modeling structures and vibrational frequencies for dinitrosyl iron complexes (DNICs) with density functional theory. *Inorganic Chemistry*, **2011**, 50, 8532-40	5.1	37
227	Self-assembly of dinitrosyl iron units into imidazolate-edge-bridged molecular squares: characterization including M□ssbauer spectroscopy. *Journal of the American Chemical Society*, **2011**, 133, 20426-34	16.4	39
226	S K-edge X-ray absorption spectroscopy and density functional theory studies of high and low spin {FeNO}7 thiolate complexes: exchange stabilization of electron delocalization in {FeNO}7 and {FeO2}8. *Inorganic Chemistry*, **2011**, 50, 427-36	5.1	35
225	Sulfoxygenation of Active Site Models of [NiFe] and [FeFe] Hydrogenases □A Commentary on Possible Chemical Models of Hydrogenase Enzyme Oxygen Sensitivity. *European Journal of Inorganic Chemistry*, **2011**, 2011, 994-1004	2.3	70
224	cis-Dithiolatonickel as metalloligand to dinitrosyl iron units: the di-metallic structure of Ni(□SR)[Fe(NO)2] and an unexpected, abbreviated metalloadamantyl cluster, Ni2(□SR)4[Fe(NO)2]3. *Dalton Transactions*, **2011**, 40, 6047-53	4.3	17
223	Tetradentate N2S2 vanadyl(IV) coordination complexes: synthesis, characterization, and reactivity studies. *Inorganic Chemistry*, **2011**, 50, 1849-55	5.1	9
222	Sulfonated diiron complexes as water-soluble models of the [Fe-Fe]-hydrogenase enzyme active site. *Inorganic Chemistry*, **2011**, 50, 5015-26	5.1	86
221	N-heterocyclic carbene ligands as mimics of imidazoles/histidine for the stabilization of di- and trinitrosyl iron complexes. *Inorganic Chemistry*, **2011**, 50, 8541-52	5.1	62

220	A {Fe(NO)3}10 trinitrosyliron complex stabilized by an n-heterocyclic carbene and the cationic and neutral {Fe(NO)2}(9/10) products of its NO release. *Journal of the American Chemical Society*, **2010**, 132, 14118-25	16.4	83
219	Orientation and stereodynamic paths of planar monodentate ligands in square planar nickel N2S complexes. *Inorganic Chemistry*, **2010**, 49, 5503-14	5.1	20
218	HYDROGENASE ACTIVE SITES: A NEW PARADIGM FOR NATURAL PRODUCT-INSPIRED SYNTHESIS BASED ON ORGANOMETALLIC CHEMISTRY. *Comments on Inorganic Chemistry*, **2010**, 31, 144-152	3.9	10
217	Mechanism of electrocatalytic hydrogen production by a di-iron model of iron-iron hydrogenase: a density functional theory study of proton dissociation constants and electrode reduction potentials. *Dalton Transactions*, **2010**, 39, 3093-104	4.3	65
216	A cyclodextrin host/guest approach to a hydrogenase active site biomimetic cavity. *Journal of the American Chemical Society*, **2010**, 132, 8870-1	16.4	129
215	Analysis of a pentacoordinate iron dicarbonyl as synthetic analogue of the Hmd or mono-iron hydrogenase active site. *Chemistry - A European Journal*, **2010**, 16, 3083-9	4.8	67
214	Modularer Aufbau von Clustern als natürliche Strategie zur Synthese des aktiven Zentrums der [FeFe]-Hydrogenase. *Angewandte Chemie*, **2010**, 122, 8747-8749	3.6	1
213	The modular assembly of clusters is the natural synthetic strategy for the active site of [FeFe] hydrogenase. *Angewandte Chemie - International Edition*, **2010**, 49, 8567-9	16.4	14
212	Resin-bound models of the [FeFe]-hydrogenase enzyme active site and studies of their reactivity. *Dalton Transactions*, **2009**, 4344-50	4.3	26
211	Synthesis and Mössbauer characterization of octahedral iron(II) carbonyl complexes FeI2(CO)3L and FeI2(CO)2L2: developing models of the [Fe]-H(2)ase active site. *Inorganic Chemistry*, **2009**, 48, 11283-9	5.1	71
210	Influence of sulf-oxygenation on CO/L substitution and Fe(CO)3 rotation in thiolate-bridged diiron complexes. *Inorganic Chemistry*, **2009**, 48, 8393-403	5.1	23
209	Chemical issues addressing the construction of the distal Ni[cysteine-glycine-cysteine]2- site of acetyl CoA synthase: why not copper?. *Inorganic Chemistry*, **2009**, 48, 2780-92	5.1	5
208	Development of five-coordinate zinc mono- and dithiolates as S-donor metalloligands: formation of a Zn-W coordination polymer. *Inorganic Chemistry*, **2009**, 48, 5288-95	5.1	27
207	Imidazole-containing (N3S)-Ni(II) complexes relating to nickel containing biomolecules. *Inorganic Chemistry*, **2009**, 48, 7280-93	5.1	42
206	Sulfur oxygenates of biomimetics of the diiron subsite of the [FeFe]-hydrogenase active site: properties and oxygen damage repair possibilities. *Journal of the American Chemical Society*, **2009**, 131, 8296-307	16.4	64
205	Reactions of palladium and gold complexes with zinc-thiolate chelates using electrospray mass spectrometry and X-ray diffraction: molecular identification of [Pd(bme-dach)], [Au(bme-dach]+ and [ZnCl(bme-dach)]2Pd. *Dalton Transactions*, **2009**, 10896-903	4.3	7
204	Zinc/nickel exchange and ligand cannibalism in N2S2O(1,2) donor ligand sets. *Dalton Transactions*, **2009**, 9496-502	4.3	5
203	A paramagnetic trigonal paddlewheel complex with iron-dithiolato ligand paddles: {[(C9H18N2S2)Fe(NO)]3Ag2}(BF4)2. *Journal of Molecular Structure*, **2008**, 890, 70-74	3.4	8

202	Regioselective (12)CO/(13)CO exchange activity of a mixed-valent Fe(ii)Fe(i) model of the H(ox) state of [FeFe]-hydrogenase. *Chemical Communications*, **2008**, 1563-5	5.8	25
201	Electronic effects of (N2S2)M(NO) complexes (M = Fe, Co) as metallodithiolate ligands. *Inorganic Chemistry*, **2008**, 47, 2056-63	5.1	32
200	CO-migration in the ligand substitution process of the chelating diphosphite diiron complex (mu-pdt)[Fe(CO)3][Fe(CO){(EtO)2PN(Me)P(OEt)2}]. *Inorganic Chemistry*, **2008**, 47, 6948-55	5.1	42
199	Series of mixed valent Fe(II)Fe(I) complexes that model the Hox state of [FeFe]hydrogenase: redox properties, density-functional theory investigation, and reactivities with extrinsic CO. *Inorganic Chemistry*, **2008**, 47, 7009-24	5.1	106
198	Refining the active site structure of iron-iron hydrogenase using computational infrared spectroscopy. *Inorganic Chemistry*, **2008**, 47, 2380-8	5.1	38
197	Thiolate bridging and metal exchange in adducts of a zinc finger model and Pt(II) complexes: biomimetic studies of protein/Pt/DNA interactions. *Journal of the American Chemical Society*, **2008**, 130, 6272-80	16.4	49
196	Synthetic support of de novo design: sterically bulky [FeFe]-hydrogenase models. *Angewandte Chemie - International Edition*, **2008**, 47, 9492-5	16.4	131
195	The effect of bridgehead steric bulk on the ground state and intramolecular exchange processes of (ÊSCH2CR2CH2S)[Fe(CO)3][Fe(CO)2L] complexes. *Comptes Rendus Chimie*, **2008**, 11, 861-874	2.7	61
194	An experimental and computational study of sulfur-modified nucleophilicity in a dianionic NiN2S2 complex. *Inorganic Chemistry*, **2007**, 46, 7536-44	5.1	29
193	Control of S-based aggregation: designed synthesis of NiM2 and Ni2M trinuclear complexes. *Inorganic Chemistry*, **2007**, 46, 179-85	5.1	17
192	S K-edge XAS and DFT calculations on square-planar NiII-thiolate complexes: effects of active and passive H-bonding. *Inorganic Chemistry*, **2007**, 46, 9655-60	5.1	15
191	CO and Ethylene Migratory Insertion Reactions and Copolymerization Involving Palladium Complexes of a NiN2S2Metallodithiolate Ligand. *Organometallics*, **2007**, 26, 783-792	3.8	13
190	A mixed-valent, Fe(II)Fe(I), diiron complex reproduces the unique rotated state of the [FeFe]hydrogenase active site. *Journal of the American Chemical Society*, **2007**, 129, 7008-9	16.4	268
189	Synthesis of Carboxylic Acid-Modified [FeFe]-Hydrogenase Model Complexes Amenable to Surface Immobilization. *Organometallics*, **2007**, 26, 3976-3984	3.8	102
188	Tetracarbonyl{[2-(Diphenylphosphino)Phenyl]Hydroxymethyl-C, P}Manganese. *Inorganic Syntheses*, **2007**, 169-171		3
187	The acetyl CoA synthase paradigm for hybrid bio-organometallics: Quantitative measures for resin-bound NiRh complexes. *Journal of Organometallic Chemistry*, **2007**, 692, 1392-1397	2.3	5
186	Computational definition of a mixed valent Fe(II)Fe(I) model of the [FeFe]hydrogenase active site resting state. *Journal of Inorganic Biochemistry*, **2007**, 101, 1752-7	4.2	46
185	trans-Tricarbonylbis(Phosphine)Iron(0) Complexes: One-Pot Syntheses from Pentacarbonyliron. *Inorganic Syntheses*, **2007**, 151-156		10

184	Bis (Phosphine) Derivatives of Iron Pentacarbonyl and Tetracarbonyl (Tri-tert-Butylphosphine) Iron (0). *Inorganic Syntheses*, **2007**, 151-156		5
183	Heterobinuclear Nonacarbonyl Complexes and Hydride Complexes of Iron□Chromium, Iron□Molybdenum, and Iron□Tungsten. *Inorganic Syntheses*, **2007**, 335-341		4
182	Tetracarbonyliron(O) Complexes Containing Group V Donor Ligands. *Inorganic Syntheses*, **2007**, 168-173		4
181	Mononuclear pentacarbonyl hydrides of chromium, molybdenum, and tungsten. *Inorganic Syntheses* , **2007**, 181-184		2
180	Bis(Phosphine) Derivatives of Iron Pentacarbonyl and Tetracarbonyl (Tri-tert-Butylphosphine)Iron(O). *Inorganic Syntheses*, **2007**, 173-179		6
179	1,3,5-Triaz-7-Phosphatricyclo[3.3.1.13,7]Decane and Derivatives. *Inorganic Syntheses*, **2007**, 40-45		112
178	Tetracarbonyliron(0) Complexes Containing Group V Donor Ligands. *Inorganic Syntheses*, **2007**, 59-64		5
177	Sulfur K-edge XAS and DFT studies on NiII complexes with oxidized thiolate ligands: implications for the roles of oxidized thiolates in the active sites of Fe and Co nitrile hydratase. *Inorganic Chemistry*, **2007**, 46, 4989-96	5.1	32
176	Correlation between computed gas-phase and experimentally determined solution-phase infrared spectra: models of the iron-iron hydrogenase enzyme active site. *Journal of Computational Chemistry*, **2006**, 27, 1454-62	3.5	34
175	The Activation of Dihydrogen **2006**, 121-158		9
174	NiN(2)S(2) complexes as metallodithiolate ligands to Rh(I), Rh(II) and Rh(III). *Dalton Transactions*, **2006**, 4244-52	4.3	10
173	A nickel tripeptide as a metallodithiolate ligand anchor for resin-bound organometallics. *Journal of the American Chemical Society*, **2006**, 128, 6493-8	16.4	32
172	De novo design of synthetic di-iron(I) complexes as structural models of the reduced form of iron-iron hydrogenase. *Inorganic Chemistry*, **2006**, 45, 1552-9	5.1	133
171	A kinetic study of the ring-opening process in tungsten carbonyl complexes containing hemilabile metallodithiolate ligands. *Inorganic Chemistry*, **2006**, 45, 119-26	5.1	12
170	The reaction of electrophiles with models of iron□iron hydrogenase: A switch in regioselectivity. *Computational and Theoretical Chemistry*, **2006**, 771, 123-128		13
169	Iron nitrosyl complexes as models for biological nitric oxide transfer reagents. *Journal of Biological Inorganic Chemistry*, **2006**, 11, 359-70	3.7	39
168	Dual electron uptake by simultaneous iron and ligand reduction in an N-heterocyclic carbene substituted [FeFe] hydrogenase model compound. *Inorganic Chemistry*, **2005**, 44, 5550-2	5.1	132
167	Metallodithiolato ligands as bridges in multiply bonded dimolybdenum complexes. *Chemical Communications*, **2005**, 1122-4	5.8	10

166	Thiolate-bridged heterodinuclear platinum-zinc chelates as models for ternary platinum-DNA-protein complexes and zinc ejection from zinc fingers. Evidence from studies using ESI-mass spectrometry. *Chemical Communications*, **2005**, 4360-2	5.8	17
165	Synthesis and molecular structures of mononitrosyl (N2S2)M(NO) complexes (M = Fe, Co). *Inorganic Chemistry*, **2005**, 44, 9007-16	5.1	26
164	N2S2Ni metallodithiolate complexes as ligands: structural and aqueous solution quantitative studies of the ability of metal ions to form M-S-Ni bridges to mercapto groups coordinated to nickel(II). implications for acetyl coenzyme A synthase. *Inorganic Chemistry*, **2005**, 44, 875-83	5.1	25
163	Characterization of steric and electronic properties of NiN2S2 complexes as S-donor metallodithiolate ligands. *Journal of the American Chemical Society*, **2005**, 127, 17323-34	16.4	51
162	N2S2Ni metallothiolates as a class of ligands that support organometallic and bioorganometallic reactivity. *Angewandte Chemie - International Edition*, **2005**, 44, 1217-20	16.4	41
161	N2S2Ni Metallothiolates as a Class of Ligands that Support Organometallic and Bioorganometallic Reactivity. *Angewandte Chemie*, **2005**, 117, 1243-1246	3.6	8
160	Better than platinum? Fuel cells energized by enzymes. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 16911-2	11.5	65
159	The Vapochromic Behavior, Desulfoxidation and Structural Characterization of the SO2 Adducts of Ni(BME-DACH) from Powder Data. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2005**, 35, 11-17		3
158	The Construction of (N2S2)Ni$_2$Pd Clusters: A Slant-Chair, a Basket and a C4-Paddlewheel Structure. *European Journal of Inorganic Chemistry*, **2004**, 2004, 231-236	2.3	20
157	Bismercaptoethanediazacyclooctane as a N2S2 chelating agent and Cys-X-Cys mimic for Fe(NO) and Fe(NO)2. *Journal of the American Chemical Society*, **2004**, 126, 10867-74	16.4	69
156	Accommodation of the irregular coordination geometry of lead(II) by a square planar N2S2 ligand and its preference for zinc(II). *Inorganic Chemistry*, **2004**, 43, 5798-800	5.1	10
155	The hydrophilic phosphatriazaadamantane ligand in the development of H2 production electrocatalysts: iron hydrogenase model complexes. *Journal of the American Chemical Society*, **2004**, 126, 12004-14	16.4	396
154	Structures and energetics of models for the active site of acetyl-coenzyme a synthase: role of distal and proximal metals in catalysis. *Journal of the American Chemical Society*, **2004**, 126, 3410-1	16.4	54
153	Sensing of sulfur dioxide by base metal thiolates: structures and properties of molecular NiN2S2/SO2 adducts. *Inorganic Chemistry*, **2004**, 43, 4702-7	5.1	11
152	SYNERGY BETWEEN THEORY AND EXPERIMENT AS APPLIED TO H/D EXCHANGE ACTIVITY ASSAYS IN [Fe]H2ase ACTIVE SITE MODELS. *Advances in Inorganic Chemistry*, **2004**, 1-26	2.1	9
151	The organometallic active site of [Fe]hydrogenase: models and entatic states. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 3683-8	11.5	253
150	Fundamental properties of small molecule models of Fe-only hydrogenase: computations relative to the definition of an entatic state in the active site. *Coordination Chemistry Reviews*, **2003**, 238-239, 255-266	23.2	175
149	Activation of alkenes and H2 by [Fe]-H2ase model complexes. *Journal of the American Chemical Society*, **2003**, 125, 518-24	16.4	96

148	Adamantane-like cluster complexes of mixed-valent copper-copper and nickel-copper thiolates. *Inorganic Chemistry*, **2003**, 42, 2999-3007	5.1	34
147	Requirements for functional models of the iron hydrogenase active site: D2/H2O exchange activity in ((mu-SMe)(mu-pdt)[Fe(CO)2(PMe3)]2+)[BF4-]. *Inorganic Chemistry*, **2003**, 42, 2489-94	5.1	57
146	Capture of Ni(II), Cu(I) and Z(II) by thiolate sulfurs of an N2S2Ni complex: a role for a metallothiolate ligand in the acetyl-coenzyme A synthase active site. *Chemical Communications*, **2003**, 1824-5	5.8	38
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