Marcetta Y Darensbourg

List of Publications by Citations

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	Beyond fossil fuel-driven nitrogen transformations. *Science*, **2018**, 360,	33.3	772
290	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
289	Electrocatalysis of hydrogen production by active site analogues of the iron hydrogenase enzyme: structure/function relationships. *Dalton Transactions*, **2003**, 4158-4163	4.3	314
288	Carbon Monoxide and Cyanide Ligands in a Classical Organometallic Complex Model for Fe-Only Hydrogenase. *Angewandte Chemie - International Edition*, **1999**, 38, 3178-3180	16.4	310
287	The bio-organometallic chemistry of active site iron in hydrogenases. *Coordination Chemistry Reviews*, **2000**, 206-207, 533-561	23.2	293
286	Oxygen Capture by Sulfur in Nickel Thiolates. *Accounts of Chemical Research*, **1998**, 31, 451-459	24.3	288
285	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
284	Coordination sphere flexibility of active-site models for Fe-only hydrogenase: studies in intra- and intermolecular diatomic ligand exchange. *Journal of the American Chemical Society*, **2001**, 123, 3268-78	16.4	268
283	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
282	H/D exchange reactions in dinuclear iron thiolates as activity assay models of Fe-H2ase. *Journal of the American Chemical Society*, **2001**, 123, 9710-1	16.4	242
281	Catalysis of H(2)/D(2) scrambling and other H/D exchange processes by [Fe]-hydrogenase model complexes. *Inorganic Chemistry*, **2002**, 41, 3917-28	5.1	229
280	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
279	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
278	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
277	Synthetic support of de novo design: sterically bulky [FeFe]-hydrogenase models. *Angewandte Chemie - International Edition*, **2008**, 47, 9492-5	16.4	131
276	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
275	Study of Sulfinate and Sulfenate Complexes Derived from the Oxygenation of Thiolate Sulfur in [1,5-Bis(2-mercapto-2-methylpropyl)-1,5-diazacyclooctanato(2-)]nickel(II). *Journal of the American Chemical Society*, **1995**, 117, 963-973	16.4	123

274	1,3,5-Triaz-7-Phosphatricyclo[3.3.1.13,7]Decane and Derivatives. *Inorganic Syntheses*, **2007**, 40-45		112
273	Isotopic labeling investigation of the oxygenation of nickel-bound thiolates by molecular oxygen. *Journal of the American Chemical Society*, **1992**, 114, 4601-4605	16.4	110
272	Reactions of transition metal carbonyls with organolithium compounds. II. Prediction of nucleophilic attack at carbon and resultant stereochemistry. *Inorganic Chemistry*, **1970**, 9, 1691-1694	5.1	109
271	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
270	Thiolate Bridged Nickel–Iron Complexes Containing both Iron(0) and Iron(II) Carbonyls. *Angewandte Chemie International Edition in English*, **1996**, 35, 2390-2393		105
269	Metallodithiolates as ligands in coordination, bioinorganic, and organometallic chemistry. *Chemical Reviews*, **2015**, 115, 5248-73	68.1	104
268	Sterically protected nickel(II) in a N2S2 donor environment: 1,5-bis(mercaptoethyl)-1,5-diazacyclooctane and its methylated derivative. *Inorganic Chemistry*, **1990**, 29, 4364-4366	5.1	103
267	Synthesis of Carboxylic Acid-Modified [FeFe]-Hydrogenase Model Complexes Amenable to Surface Immobilization. *Organometallics*, **2007**, 26, 3976-3984	3.8	102
266	Activation of alkenes and H2 by [Fe]-H2ase model complexes. *Journal of the American Chemical Society*, **2003**, 125, 518-24	16.4	96
265	Effects of sulfur site modification on the redox potentials of derivatives of [N,N′-bis(2-mercaptoethyl)-1,5-diazacyclooctanato]nickel(II). *Journal of the American Chemical Society*, **1993**, 115, 4665-4674	16.4	93
264	Sulfonated diiron complexes as water-soluble models of the [Fe-Fe]-hydrogenase enzyme active site. *Inorganic Chemistry*, **2011**, 50, 5015-26	5.1	86
263	Facile reduction of carbon dioxide by anionic Group 6b metal hydrides. Chemistry relevant to catalysis of the water-gas shift reaction. *Journal of the American Chemical Society*, **1981**, 103, 3223-3224	16.4	85
262	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
261	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
260	Influence of Sulfur Metalation on the Accessibility of the Ni(II/I) Couple in [N,N′-Bis(2-mercaptoethyl)-1,5-diazacyclooctanato]nickel(II): Insight into the Redox Properties of [NiFe]-Hydrogenase. *Inorganic Chemistry*, **1996**, 35, 2176-2183	5.1	73
259	Methylation of Tethered Thiolates in [(bme-daco)Zn](2) and [(bme-daco)Cd](2) as a Model of Zinc Sulfur-Methylation Proteins. *Inorganic Chemistry*, **1998**, 37, 4052-4058	5.1	72
258	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
257	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

256	Heterobimetallics of nickel-iron dinitrosyl: electronic control by chelate and diatomic ligands. *Inorganic Chemistry*, **2000**, 39, 480-4	5.1	70
255	Responses of the Fe(CN)2(CO) Unit to Electronic Changes as Related to Its Role in [NiFe]Hydrogenase. *Journal of the American Chemical Society*, **1998**, 120, 10103-10114	16.4	70
254	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
253	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
252	Anionic group 6 transition-metal carbonyl hydrides as reducing agents. ketones, aldehydes, and epoxides. *Journal of the American Chemical Society*, **1985**, 107, 2428-2434	16.4	66
251	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
250	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
249	Synthesis, spectral properties, and reactions of manganese and rhenium pentacarbonyl phosphine and phosphite cation derivatives and related complexes. *Inorganic Chemistry*, **1975**, 14, 1579-1584	5.1	65
248	Hemilabile Bridging Thiolates as Proton Shuttles in Bioinspired H Production Electrocatalysts. *Journal of the American Chemical Society*, **2016**, 138, 12920-12927	16.4	64
247	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
246	Applications of the N2S2 ligand, N,N'-bis(mercaptoethyl)-1,5-diazacyclooctane (BME-DACO), toward the formation of bi- and heterometallics: [(BME-DACO)Fe]2 and [(BME-DACO)NiFeCl2]2. *Journal of the American Chemical Society*, **1991**, 113, 1421-1423	16.4	64
245	Spectroscopic studies of some carbene pentacarbonyl complexes of chromium(0) and tungsten(0). *Inorganic Chemistry*, **1970**, 9, 32-39	5.1	63
244	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
243	Characteristics of Nickel(0), Nickel(I), and Nickel(II) in Phosphino Thioether Complexes: Molecular Structure and S-Dealkylation of (Ph2P(o-C6H4)SCH3)2Ni0. *Journal of the American Chemical Society*, **1996**, 118, 4115-4123	16.4	62
242	The effect of bridgehead steric bulk on the ground state and intramolecular exchange processes of (EtSCH2CR2CH2S)[Fe(CO)3][Fe(CO)2L] complexes. *Comptes Rendus Chimie*, **2008**, 11, 861-874	2.7	61
241	Interactions of CpM(CO)3- (M = chromium, molybdenum, or tungsten) with cations: effects on CO exchange and RX addition reactions. *Journal of the American Chemical Society*, **1982**, 104, 1521-1530	16.4	60
240	Anionic Transition Metal Hydrides. *Advances in Organometallic Chemistry*, **1987**, 1-50	3.8	58
239	Infrared, conductance, and kinetic evidence for alkali metal ion interactions with derivatives of manganese carbonylates. *Journal of the American Chemical Society*, **1976**, 98, 3127-3136	16.4	58

238	Electronic and steric control of reactions of benzylmagnesium chloride with substituted metal carbonyls. *Journal of the American Chemical Society*, **1973**, 95, 5919-5924	16.4	58
237	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
236	Unique reactivity of a tetradentate N(2)S(2) complex of nickel: intermediates in the production of sulfur oxygenates. *Inorganic Chemistry*, **2002**, 41, 1837-44	5.1	57
235	Analysis of an Organometallic Iron Site Model for the Heterodimetallic Unit of [NiFe]Hydrogenase. *Journal of the American Chemical Society*, **1997**, 119, 7903-7904	16.4	56
234	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
233	Solution structure and reactivity of hydridoiron tetracarbonyl anion, [HFe(CO)4]-. *Inorganic Chemistry*, **1978**, 17, 297-301	5.1	54
232	The synthesis of group V substituted derivatives of iron pentacarbonyl in high yield. *Journal of Organometallic Chemistry*, **1974**, 67, 93-97	2.3	53
231	Singlet Oxygen and the Production of Sulfur Oxygenates of Nickel(II) and Palladium(II) Thiolates. *Inorganic Chemistry*, **1997**, 36, 1860-1866	5.1	52
230	Metallosulfoxides and -sulfones: Sulfur Oxygenates of [1,5-Bis(2-mercaptoethyl)-1,5-diazacyclooctanato]palladium(II). *Inorganic Chemistry*, **1995**, 34, 6279-6286	5.1	52
229	Structural characterizations of salts of HCr(CO)5- and (□H)2BH2Cr(CO)4- and studies of their interconversions. *Journal of the American Chemical Society*, **1982**, 104, 6961-6969	16.4	52
228	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
227	Template Effect for O2 Addition across cis-Sulfur Sites in Nickel Dithiolates. *Journal of the American Chemical Society*, **1996**, 118, 1791-1792	16.4	51
226	Organometallic chemistry of sulfur/phosphorus donor ligand complexes of nickel(II) and nickel(0). *Organometallics*, **1993**, 12, 870-875	3.8	51
225	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
224	Synthesis and spectral properties of metal carbonyl derivatives of the tetrabasic, nonchelating phosphatriazaadamantane ligand. *Inorganic Chemistry*, **1975**, 14, 1217-1218	5.1	48
223	Redox active iron nitrosyl units in proton reduction electrocatalysis. *Nature Communications*, **2014**, 5, 3684	17.4	47
222	Reduction-Promoted Sulfur-Oxygen Bond Cleavage in a Nickel Sulfenate as a Model for the Activation of [NiFe] Hydrogenase. *Journal of the American Chemical Society*, **1994**, 116, 9355-9356	16.4	47
221	Molecular structure and spectral properties of phosphatriazaadamantanemolybdenum pentacarbonyl complex. *Inorganic Chemistry*, **1976**, 15, 816-819	5.1	47

220	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
219	Subtle bite-angle influences on N(2)S(2)Ni complexes. *Inorganic Chemistry*, **2001**, 40, 3601-5	5.1	46
218	Synthesis, Structures, and Electrochemical Properties of Nickel Complexes of Macrocyclic N2S2 Aminothioethers. *Inorganic Chemistry*, **1998**, 37, 302-310	5.1	46
217	Preparations and structures of a zinc(II) dimer and zinc(II)/nickel(II) pentanuclear derivatives of N,N□bis(mercaptoethyl)-1,5-diazacyclooctane: [(BME-DACO)Zn]2 and {[(BME-DACO)Ni]3[ZnCl]2}{BF4}2. *Inorganic Chemistry*, **1992**, 31, 3497-3499	5.1	44
216	Electrocatalytic O□reduction by [Fe-Fe]-hydrogenase active site models. *Journal of the American Chemical Society*, **2014**, 136, 8847-50	16.4	42
215	Imidazole-containing (N3S)-Ni(II) complexes relating to nickel containing biomolecules. *Inorganic Chemistry*, **2009**, 48, 7280-93	5.1	42
214	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
213	Oxidative addition of phosphine-tethered thiols to iron carbonyl: binuclear phosphinothiolate complexes, (mu-SCH(2)CH(2)PPh(2))(2)Fe(2)(CO)(4), and hydride derivatives. *Inorganic Chemistry*, **2002**, 41, 699-708	5.1	42
212	Anionic group 6 hydrides and carboxylates as homogeneous catalysts for reduction of aldehydes and ketones. *Journal of the American Chemical Society*, **1986**, 108, 5465-5470	16.4	42
211	Synthetic advances inspired by the bioactive dinitrosyl iron unit. *Accounts of Chemical Research*, **2015**, 48, 2049-58	24.3	41
210	N2S2Ni metallothiolates as a class of ligands that support organometallic and bioorganometallic reactivity. *Angewandte Chemie - International Edition*, **2005**, 44, 1217-20	16.4	41
209	Reaction of (Cy3P)2Ni(H)(CH3) with carbon dioxide. Formation of an hydridonickel formate complex, HNi(O2CH)(Cy3P)2. *Journal of the American Chemical Society*, **1987**, 109, 7539-7540	16.4	41
208	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
207	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
206	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
205	Iron nitrosyl complexes as models for biological nitric oxide transfer reagents. *Journal of Biological Inorganic Chemistry*, **2006**, 11, 359-70	3.7	39
204	Variable modes of nickel(II) coordination with macrocyclic ligands based on 1,5-bis(2-mercaptoethyl)-1,5-diazacyclooctane (BME-DACO). *Inorganic Chemistry*, **1992**, 31, 4965-4971	5.1	39
203	A matrix of heterobimetallic complexes for interrogation of hydrogen evolution reaction electrocatalysts. *Chemical Science*, **2017**, 8, 8291-8300	9.4	38

202	Refining the active site structure of iron-iron hydrogenase using computational infrared spectroscopy. *Inorganic Chemistry*, **2008**, 47, 2380-8	5.1	38
201	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
200	Protonation sites in thiolato iron carbonylates: evidence for an arrested Fe(RS-H) oxidative addition. *Journal of the American Chemical Society*, **1989**, 111, 8051-8052	16.4	38
199	Thiolate, thioether, and thiol derivatives of iron(0) carbonyls. *Journal of the American Chemical Society*, **1989**, 111, 3591-3597	16.4	38
198	Modeling structures and vibrational frequencies for dinitrosyl iron complexes (DNICs) with density functional theory. *Inorganic Chemistry*, **2011**, 50, 8532-40	5.1	37
197	Structure/Function Relationships in Ligand-Based SO2/O2 Conversion to Sulfate As Promoted by Nickel and Palladium Thiolates. *Inorganic Chemistry*, **1995**, 34, 6287-6294	5.1	37
196	Spectroscopic and chemical studies of nickel(II) hydrides. *Inorganic Chemistry*, **1989**, 28, 1630-1634	5.1	36
195	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
194	The stereochemical course of reactions leading to formation of mono-ligated (phenylacetyl)manganese tetracarbonyl compounds. *Journal of Organometallic Chemistry*, **1975**, 85, 73-84	2.3	35
193	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
192	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
191	Adamantane-like cluster complexes of mixed-valent copper-copper and nickel-copper thiolates. *Inorganic Chemistry*, **2003**, 42, 2999-3007	5.1	34
190	Divergent pathways for the addition of dioxygen to sulfur in nickel cis-dithiolates: an isotopomeric analysis. *Inorganic Chemistry*, **1993**, 32, 4171-4172	5.1	34
189	Relative reactivity and mechanistic studies of the hydride-transfer reagents HM(CO)4L-(M = Cr, W; L = CO, PR3). *Organometallics*, **1985**, 4, 83-91	3.8	34
188	Alternate synthetic routes to the pentacarbonylhydrides of chromium, molybdenum, and tungsten. *Journal of the American Chemical Society*, **1981**, 103, 5914-5915	16.4	34
187	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
186	Pentacoordinate (&mgr;-Oxo)diiron(III) Thiolate Complexes and Dimeric Iron(II) Precursors. *Inorganic Chemistry*, **1998**, 37, 4086-4093	5.1	33
185	Metal donor to metal acceptor complexes. Fe(CO)42-, HFe(CO)4-, and trans-HFe(CO)3P(OMe)3- as anionic ligands to M(CO)50, M = Cr, W. *Journal of the American Chemical Society*, **1986**, 108, 2617-2627	16.4	33

184	Catalysis and Mechanism of H2 Release from Amine-Boranes by Diiron Complexes. *Inorganic Chemistry*, **2016**, 55, 964-73	5.1	32
183	Ambidentate thiocyanate and cyanate ligands in dinitrosyl iron complexes. *Inorganic Chemistry*, **2013**, 52, 2119-24	5.1	32
182	Electronic effects of (N2S2)M(NO) complexes (M = Fe, Co) as metallodithiolate ligands. *Inorganic Chemistry*, **2008**, 47, 2056-63	5.1	32
181	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
180	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
179	Chemistry of hydrido carbonyl VIB metalates substituted by P-donor ligands: HW(CO)4PR3- (R = Me, OMe, Ph) and .mu.-H[WM(CO)10-x(P(OMe)3)x] (M = Cr, W; x = 1, 2). *Organometallics*, **1982**, 1, 1662-1666	3.8	32
178	Complexation of organotin halides with ambidentate, S, N, and O donor ligands. *Inorganic Chemistry* , **1992**, 31, 3044-3049	5.1	31
177	Electron paramagnetic resonance and electrochemical study of the oxidation chemistry of mononuclear and binuclear chromium carbonyl thiolates. *Journal of the American Chemical Society*, **1990**, 112, 5789-5797	16.4	31
176	Photochemical substitution reactions of substituted Group VI metal carbonyls. *Inorganic Chemistry*, **1972**, 11, 1967-1970	5.1	31
175	An experimental and computational study of sulfur-modified nucleophilicity in a dianionic NiN2S2 complex. *Inorganic Chemistry*, **2007**, 46, 7536-44	5.1	29
174	Axial Ligation of Diazacyclooctanenickel and -Zinc Complexes. *Angewandte Chemie International Edition in English*, **1993**, 32, 116-119		29
173	Competing nucleophilic displacement and radical-chain reduction in reactions of transition-metal hydride anions with alkyl bromides. *Journal of the American Chemical Society*, **1987**, 109, 3313-3317	16.4	29
172	Arene-transition metal complexes. 1. Site exchange and chemical characteristics of .eta.6-C6(CH3)6Ru-.eta.4-C6(CH3)6. *Journal of the American Chemical Society*, **1978**, 100, 7425-7428	16.4	29
171	Isolation of chromium(0) thiols: molecular structure of (tert-butylmercaptan)pentacarbonylchromium. *Inorganic Chemistry*, **1990**, 29, 2721-2726	5.1	28
170	The pentacarbonylhydridochromium (1-) anion. *Inorganic Chemistry*, **1981**, 20, 1644-1646	5.1	28
169	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
168	Sulfur Site Iodine Adduct of a Nickel Thiolate Complex. *Inorganic Chemistry*, **1998**, 37, 6942-6946	5.1	27
167	Polydentate N(2)S(2)O and N(2)S(2)O(2) Ligands as Alcoholic Derivatives of (N,NŒBis(2-mercaptoethyl)-1,5-diazacyclooctane)nickel(II) and (N,NŒBis(2-mercapto-2-methylpropane)-1,5-diazacyclooctane)nickel(II). *Inorganic Chemistry*, **1996**, 35, 4029-4037	5.1	27

166	Selective reduction of acyl chlorides to aldehydes by anionic Group VIB transition metal hydrides. *Organometallics*, **1984**, 3, 1601-1603	3.8	27
165	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
164	Resin-bound models of the [FeFe]-hydrogenase enzyme active site and studies of their reactivity. *Dalton Transactions*, **2009**, 4344-50	4.3	26
163	Synthesis and molecular structures of mononitrosyl (N2S2)M(NO) complexes (M = Fe, Co). *Inorganic Chemistry*, **2005**, 44, 9007-16	5.1	26
162	Variable oxygenation levels of sulfur in sterically hindered thiolates: molecular structure of [N-(2-mercapto-2-methylpropyl)-N(2-sulfeno-2-methylpropyl)-1,5-diazacyclooctanato]nickel(II). *Inorganic Chemistry*, **1993**, 32, 5897-5898	5.1	26
161	Hydrogen-deuterium exchange of the anionic Group VIB transition-metal hydrides. Convenient, in situ deuterium transfer reagents. *Journal of the American Chemical Society*, **1984**, 106, 4752-4755	16.4	26
160	The extent of association of the bis(triphenylphosphine)iminium cation with organometallic anions in tetrahydrofuran solution. *Journal of the American Chemical Society*, **1977**, 99, 1647-1648	16.4	26
159	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
158	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
157	Olefin isomerization catalysis by heterobimetallic hydrides, HFeM(CO)8L- (M = Cr, Mo, W; L = CO, PR3). *Journal of the American Chemical Society*, **1985**, 107, 2422-2427	16.4	25
156	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
155	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
154	A Coordination Polymer of Nickel(II) Based on a Pentadentate N, S, and O Donor Ligand. *Inorganic Chemistry*, **1996**, 35, 4989-4994	5.1	22
153	SYNTHETIC STRATEGIES FOR N2S2O-PENTACOORDINATE NICKEL(II) BASED ON THE HIGHLY STERICALLY ENCUMBERED LIGAND N,N?-BIS(2-MERCAPTO-2-METHYLPROPANE)-1,5-DIAZACYCLOOCTANE. *Journal of Coordination Chemistry*, **1994**, 32, 39-49	1.6	22
152	Synthesis and Characterization of a Stable Iron(II) Hydride-Thiolate Complex: (PhS)Fe(H)(CO)2(P(OPh)3)2. *Inorganic Chemistry*, **1994**, 33, 1421-1426	5.1	22
151	Stereochemical nonrigidity in heterobimetallic complexes containing the bent metallocene-thiolate fragment. *Inorganic Chemistry*, **1992**, 31, 1487-1493	5.1	22
150	Promotion of methyl/carbonyl migratory insertion by transition-metal Lewis acids. Synthesis and reactivity of a transition-metal heterobimetallic carbonyl alkyl anion, MeFeW(CO)9-. *Organometallics*, **1988**, 7, 1302-1309	3.8	22
149	Chemistry of new heteronuclear bridging hydrides: (.mu.-H)[Fe(CO)4M(CO)5]- (M = chromium, molybdenum, or tungsten). *Journal of the American Chemical Society*, **1984**, 106, 456-457	16.4	22

148	Solution and solid-state structures of salts of trans-HFe(CO)3PR3- including a study of alkali cation contact ion pairing. *Organometallics*, **1986**, 5, 17-25	3.8	22
147	Cation interaction with transition metal carbonylates and cyanocarbonylates. *Inorganic Chemistry*, **1979**, 18, 3286-3288	5.1	22
146	Solvent effects on the solution structure and chemical properties of lithium and magnesium salts of trans-phenylacyltricarbonyl(triphenylphosphine)iron(1-). *Inorganic Chemistry*, **1974**, 13, 2970-2973	5.1	22
145	Oxygen uptake in complexes related to [NiFeS]- and [NiFeSe]-hydrogenase active sites. *Chemical Science*, **2019**, 10, 1368-1373	9.4	21
144	Studies using tributylphosphine oxide as a carbon monoxide labilizing ligand in the synthesis of metal carbonyl complexes highly enriched in carbon-13 monoxide. *Inorganic Chemistry*, **1981**, 20, 1918-1921	5.1	21
143	Site-specific ion pairing of monosubstituted vanadium carbonylates, LV(CO)5-. *Organometallics*, **1982**, 1, 82-87	3.8	21
142	Complexes of MNS□Fe(□CR)(CO) as platform for exploring cooperative heterobimetallic effects in HER electrocatalysis. *Dalton Transactions*, **2017**, 46, 5617-5624	4.3	20
141	Orientation and stereodynamic paths of planar monodentate ligands in square planar nickel N2S complexes. *Inorganic Chemistry*, **2010**, 49, 5503-14	5.1	20
140	The Construction of (N2S2)Ni□d Clusters: A Slant-Chair, a Basket and a C4-Paddlewheel Structure. *European Journal of Inorganic Chemistry*, **2004**, 2004, 231-236	2.3	20
139	Relative reactivities of anionic transition metal hydrides. Reduction of alkyl halides. *Organometallics*, **1984**, 3, 646-647	3.8	20
138	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
137	Structural studies of thiophenoxide niobium complexes (.eta.5-C5H5)2Nb(SC6H5)2, [(.eta.5-C5H5)2Nb(SC6H5)2+], and [(.eta.5-C5H5)2Nb(.mu.-SC6H5)2)Mo(CO)4+]. *Organometallics*, **1989**, 8, 1315-1323	3.8	19
136	Toward biocompatible dinitrosyl iron complexes: sugar-appended thiolates. *Chemical Communications*, **2017**, 53, 1180-1183	5.8	18
135	X-ray structure and solution characterization of tetracarbonylmolybdenumbis(.mu.-diphenylphosphinoethanethiolato)nickel (Ni(.mu.-SCH2CH2PPh2)2Mo(CO)4). *Inorganic Chemistry*, **1993**, 32, 3573-3576	5.1	18
134	Reaction of iron pentacarbonyl with oxygen-18-enriched hydroxide. Decarboxylation vs. oxygen exchange in the [Fe(COOH)] intermediate. *Inorganic Chemistry*, **1979**, 18, 1401-1402	5.1	18
133	Alkylation and substitution reactions of metal carbonyl acylate and carbene complexes. *Inorganic Chemistry*, **1974**, 13, 506-511	5.1	18
132	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
131	A New Macrocyclic N3S2 Ligand and Its Nickel(II), Cobalt(II), Rhodium(III)-103, and Rhodium(III)-105 Complexes. *Journal of the American Chemical Society*, **1997**, 119, 4955-4963	16.4	17

130	Control of S-based aggregation: designed synthesis of NiM2 and Ni2M trinuclear complexes. *Inorganic Chemistry*, **2007**, 46, 179-85	5.1	17
129	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
128	Correlation of electrochemistry, nucleophilicity and density functional calculations of the cis-dithiolate (bme*-daco)Ni. *Inorganica Chimica Acta*, **2000**, 300-302, 73-81	2.7	17
127	Sulfur site adducts of sulfur dioxide in nickel-bound thiolates and their conversion to sulfate. *Inorganic Chemistry*, **1994**, 33, 611-613	5.1	17
126	The use of ion-pairing phenomena in the assignment of v(co) ir bands of pv(co)5-. *Journal of Organometallic Chemistry*, **1981**, 217, C9-C13	2.3	17
125	Nature of the intermediate procreated in substitution reactions of Group VI metal carbonyls. *Journal of the American Chemical Society*, **1971**, 93, 2807-2808	16.4	17
124	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
123	Toward the Optimization of Dinitrosyl Iron Complexes as Therapeutics for Smooth Muscle Cells. *Molecular Pharmaceutics*, **2019**, 16, 3178-3187	5.6	16
122	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
121	The anion assisted transfer of a sterically constrained proton: molecular structure of bis[1,2-ethanediylbis(diphenylphosphine)]dicarbonylhydridomolybdenum tetrachloroaluminate [HMo(CO)2(Ph2PCH2CH2PPh2)2+ AlCl4-]. *Journal of the American Chemical Society*, **1983**, 105, 6979-6980	16.4	16
120	The .mu.-hydrobis[tetracarbonyl(methyldiphenylphosphine)molybdenum](2-) anion: an example of phosphine enhancement of metal-metal interaction. *Journal of the American Chemical Society*, **1980**, 102, 3290-3292	16.4	16
119	Conductivity studies of ion pairing in transition metal organics. *Inorganic Chemistry*, **1976**, 15, 3121-3125	5.1	16
118	Reactions of organolithium and grignard reagents with the cyclopentadienyliron tricarbonyl cation and its derivatives. *Journal of Organometallic Chemistry*, **1972**, 38, 133-138	2.3	16
117	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
116	Synthesis and Dimer Cleavage Reactions of the N(2)S Thiolate Bridged Dimer [(mmp-dach)(2)Ni(2)]Cl(2). *Inorganic Chemistry*, **1999**, 38, 3698-3703	5.1	15
115	Thiolatoverbrückte Ni-Fe-Komplexe mit Fe0- und FeII-CO-Komplexfragmenten. *Angewandte Chemie*, **1996**, 108, 2551-2554	3.6	15
114	The nature of alkali cation contact ion pairs with anionic transition-metal hydrides HM(CO)4L- (M = Cr, W; L = CO, PR3). *Organometallics*, **1984**, 3, 871-876	3.8	15
113	Comparisons of the heterobimetallic and heterotrimetallic anions HFeW(CO)9- and Ph3PAuFeW(CO)9-. *Journal of the American Chemical Society*, **1985**, 107, 7218-7219	16.4	15

112	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
111	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
110	Structural and Electrochemical Comparison of NiII in an N2S2 Plane with Two, One and No Axial Ligands: Isolation and Characterization of a Five-Coordinate Nickel(II) Complex. *Chemische Berichte*, **1996**, 129, 779-784		14
109	Conformations of (.eta.5-C5H5)2Nb(S-p-C6H4X)2n(n=0,1): responsiveness to para substituents on aryl groups and to d-electron count. *Journal of the American Chemical Society*, **1990**, 112, 6905-6912	16.4	14
108	Deprotonation of molybdenum carbonyl hydrido diphosphine [HMo(CO)2(PP)2]BF4 complexes: hard anions as proton carriers. *Inorganic Chemistry*, **1986**, 25, 2894-2898	5.1	14
107	Oxygen-Exchange and Ligand Substitution Reactions in Cr(CO)6 and □H[Cr(CO)5]2-, and the Water Gas Shift Reaction. *Advances in Chemistry Series*, **1979**, 106-120		14
106	CO and Ethylene Migratory Insertion Reactions and Copolymerization Involving Palladium Complexes of a NiN2S2Metallodithiolate Ligand. *Organometallics*, **2007**, 26, 783-792	3.8	13
105	The reaction of electrophiles with models of iron□iron hydrogenase: A switch in regioselectivity. *Computational and Theoretical Chemistry*, **2006**, 771, 123-128		13
104	Binuclear molybdenum carbonyls bridged both by hydride and bidentate phosphine ligands. Crystal and molecular structures of salts of hydridomolybdenum carbonyls with bidentate phosphine ligands (.mu.-H)(.mu.-Ph2P(CH2)nPPh2)Mo2(CO)8- (n = 1-4) and their reactions with acids. *Journal of the American Chemical Society*, **1984**, 106, 2583-2591	16.4	13
103	The synthesis and spectral properties of manganese pentacarbonyl phosphine and phosphite cation derivatives and related complexes. *Journal of Organometallic Chemistry*, **1974**, 74, C33-C36	2.3	13
102	Dinitrosyl iron adducts of (N2S2)M(NO) complexes (M = Fe, Co) as metallodithiolate ligands. *Polyhedron*, **2013**, 58, 151-155	2.7	12
101	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
100	Temperature and solvent dependence of scalar coupling constants in salts of trans-HFe(CO)3PR3-. *Journal of the American Chemical Society*, **1987**, 109, 4173-4180	16.4	12
99	Properties and x-ray structure of bis(triphenylphosphine)nitrogen(1+) cis-tricarbonylhydridotris(triphenyl phosphite)ferrate(1-), an unexpected structural isomer. *Inorganic Chemistry*, **1987**, 26, 1357-1361	5.1	12
98	Arene-transition metal chemistry. 2. Hydrogenation of metal-arene and allylmetal-arene complexes. *Inorganic Chemistry*, **1979**, 18, 883-884	5.1	12
97	Ligand lability studies in bridging hydride complexes of Group 6B metal carbonylates. *Inorganic Chemistry*, **1978**, 17, 52-56	5.1	12
96	Regioselectivity in ligand substitution reactions on diiron complexes governed by nucleophilic and electrophilic ligand properties. *Inorganic Chemistry*, **2015**, 54, 3523-35	5.1	11
95	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□sbauer spectroscopy studies of low-spin Fe(I.). *Journal of Biological Inorganic Chemistry*, **2013**, 18, 609-22	3.7	11

94	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
93	Models for Terminal Ni(S-Cysteine) Modification in [NiFe]Hydrogenases by Iodoacetamide and Iodoacetate. *European Journal of Inorganic Chemistry*, **1999**, 1999, 539-546	2.3	11
92	Nickel mediated sulfur–selenium and sulfur–sulfur bond formation. *Chemical Communications*, **1999**, 2473-2474	5.8	11
91	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
90	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
89	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
88	Hammett correlations as test of mechanism of CO-induced disulfide elimination from dinitrosyl iron complexes. *Chemical Science*, **2014**, 5, 3795-3802	9.4	10
87	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
86	trans-Tricarbonylbis(Phosphine)Iron(0) Complexes: One-Pot Syntheses from Pentacarbonyliron. *Inorganic Syntheses*, **2007**, 151-156		10
85	Metallodithiolato ligands as bridges in multiply bonded dimolybdenum complexes. *Chemical Communications*, **2005**, 1122-4	5.8	10
84	NiN(2)S(2) complexes as metallodithiolate ligands to Rh(I), Rh(II) and Rh(III). *Dalton Transactions*, **2006**, 4244-52	4.3	10
83	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
82	Reactions of anionic transition metal carbonyl hydrides with electrophilic metal carbonyls: Nucleophilic addition (hydride transfer) vs. electron transfer mechanisms. *Journal of Organometallic Chemistry*, **1990**, 383, 191-199	2.3	10
81	A reactivity study of addition of organic halides to CpMo(CO)3−. counterion and RX dependences. *Journal of Organometallic Chemistry*, **1980**, 202, C68-C70	2.3	10
80	Discrete Air-Stable Nickel(II)–Palladium(II) Complexes as Catalysts for Suzuki–Miyaura Reactions. *Organometallics*, **2017**, 36, 1822-1827	3.8	9
79	A reduced 2Fe2S cluster probe of sulfur-hydrogen versus sulfur-gold interactions. *Angewandte Chemie - International Edition*, **2015**, 54, 11102-6	16.4	9
78	Tetradentate N2S2 vanadyl(IV) coordination complexes: synthesis, characterization, and reactivity studies. *Inorganic Chemistry*, **2011**, 50, 1849-55	5.1	9
77	The Activation of Dihydrogen **2006**, 121-158		9

76	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
75	Study of Sulfinate and Sulfenate Complexes Derived from the Oxygenation of Thiolate Sulfur in [1,5-Bis(2-mercapto-2-methylpropyl)-1,5-diazacyclooctanato(2-)]nickel(II). [Erratum to document cited in CA122:70603]. *Journal of the American Chemical Society*, **1995**, 117, 5427-5427	16.4	9
74	Lightinduced sulfur-dealkylation of phosphino-thioether nickel(0) complexes. *Inorganica Chimica Acta*, **1996**, 250, 283-294	2.7	9
73	The synthesis and molecular structure of (Ph3PAu)2Fe(CO)3P(OEt)3: a triangular Au2Fe cluster. *Journal of Organometallic Chemistry*, **1990**, 394, 733-741	2.3	9
72	Structural and chemical characterization of a phosphine bound M-H-M bridged carbonylate: Et4N+(.mu.-H)[Mo2(CO)9PPh3]-. *Journal of the American Chemical Society*, **1979**, 101, 2631-2637	16.4	9
71	Synthesis of metal carbonyl complexes highly enriched in carbon-13: utilization of the carbon monoxide-labilizing ability of (n-Bu)3P:O. *Journal of the American Chemical Society*, **1980**, 102, 1213-1214	16.4	9
70	Infrared determination of stereochemistry in metal complexes. The determination of symmetry coordinates. *Journal of Chemical Education*, **1974**, 51, 787	2.4	9
69	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
68	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
67	N2S2Ni Metallothiolates as a Class of Ligands that Support Organometallic and Bioorganometallic Reactivity. *Angewandte Chemie*, **2005**, 117, 1243-1246	3.6	8
66	Versatile N2S2 nickel-dithiolates as mono- and bridging bidentate, S-donor ligands to gold(I). *Dalton Transactions*, **2014**, 43, 138-44	4.3	7
65	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
64	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
63	Alkylation-Induced O-Atom Rearrangement in Nickel S-Oxygenates. *Organometallics*, **1998**, 17, 4813-4823	3.8	7
62	. *Inorganic Syntheses*, **1998**,		7
61	Synthesis and characterization of the electron-rich iron hydride HFe(CO)2(P(OPh)3)2- and its ligand-based redox substitution with thiolates. *Organometallics*, **1992**, 11, 3185-3190	3.8	7
60	Binuclear reductive elimination of water: new route to the (triphenylstannyl)pentacarbonyltungsten anion, Ph3SnW(CO)5-. *Inorganic Chemistry*, **1988**, 27, 2555-2558	5.1	7
59	Carbonyl Ligand Lability in the [H[Cr(CO)5]2]Anion. *Journal of Organometallic Chemistry*, **1976**, 117, C68-C74	2.3	7

58	Preparation of a stereospecifically carbon-13 monoxide-labeled [(.mu.-H)[Mo(CO)5]2]- species and analysis of its carbonyl stretching vibrational modes. *Inorganic Chemistry*, **1978**, 17, 2677-2680	5.1	7
57	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
56	Carbon Monoxide and Cyanide Ligands in a Classical Organometallic Complex Model for Fe-Only Hydrogenase **1999**, 38, 3178		7
55	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
54	Bis(Phosphine) Derivatives of Iron Pentacarbonyl and Tetracarbonyl (Tri-tert-Butylphosphine)Iron(O). *Inorganic Syntheses*, **2007**, 173-179		6
53	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
52	Bridging cyanides from cyanoiron metalloligands to redox-active dinitrosyl iron units. *Dalton Transactions*, **2018**, 47, 11812-11819	4.3	5
51	The ligand unwrapping/rewrapping pathway that exchanges metals in -acetylated, hexacoordinate NSO complexes. *Chemical Science*, **2015**, 6, 7079-7088	9.4	5
50	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
49	Zinc/nickel exchange and ligand cannibalism in N2S2O(1,2) donor ligand sets. *Dalton Transactions*, **2009**, 9496-502	4.3	5
48	Cyano[tri(cyclohexyl)phosphino]gold(I), [Au(CN){(C6H11)3P}]. *Acta Crystallographica Section C: Crystal Structure Communications*, **1997**, 53, 1553-1555		5
47	The acetyl CoA synthase paradigm for hybrid bio-organometallics: Quantitative measures for resin-bound NiBh complexes. *Journal of Organometallic Chemistry*, **2007**, 692, 1392-1397	2.3	5
46	Bis (Phosphine) Derivatives of Iron Pentacarbonyl and Tetracarbonyl (Tri-tert-Butylphosphine) Iron (0). *Inorganic Syntheses*, **2007**, 151-156		5
45	Tetracarbonyliron(0) Complexes Containing Group V Donor Ligands. *Inorganic Syntheses*, **2007**, 59-64		5
44	Dicarbonyl -cis-Dihydrido-trans-Bis(Phosphite)Iron(II) Complexes: One-Pot Syntheses from Pentacarbonyliron. *Inorganic Syntheses*,156-160		5
43	Synthetic Metallodithiolato Ligands as Pendant Bases in [FeFe], [Fe[Fe(NO)]], and [(H)FeFe] Complexes. *Inorganic Chemistry*, **2020**, 59, 3753-3763	5.1	4
42	The Bioorganometallic Chemistry of Hydrogenase **2014**, 239-272		4
41	Immobilization-Enabled Proton Reduction Catalysis by a Di-iron Hydrogenase Mimic. *Electrocatalysis*, **2014**, 5, 5-7	2.7	4

40	Heterobinuclear Nonacarbonyl Complexes and Hydride Complexes of Iron□Chromium, Iron□Molybdenum, and Iron□Tungsten. *Inorganic Syntheses*, **2007**, 335-341		4
39	Tetracarbonyliron(O) Complexes Containing Group V Donor Ligands. *Inorganic Syntheses*, **2007**, 168-173		4
38	Crystal structure of tetrakis[□-methoxo-2,4-pentanedionatomethanolnickel(II)],C28H56Ni4O16. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **1995**, 210,	1	4
37	Addition of acrylonitrile to anionic transition metal hydrides. An ionic model for homogeneous olefin processes. *Tetrahedron Letters*, **1989**, 30, 1781-1784	2	4
36	EPR spectrum of the ion pair [CR(CO)5]□2 in irradiated crystals of PPh4 + HCr(CO)5□*Magnetic Resonance in Chemistry*, **1988**, 26, 787-792	2.1	4
35	Mechanisms of group transfer in anionic transition metal hydrides and alkyls. *Pure and Applied Chemistry*, **1988**, 60, 131-136	2.1	4
34	Intramolecular ligand rearrangements in anionic group 6 metal pentacarbonyl hydride derivatives. *Inorganic Chemistry*, **1986**, 25, 880-882	5.1	4
33	Effects of Glutathione and Histidine on NO Release from a Dimeric Dinitrosyl Iron Complex (DNIC). *Inorganic Chemistry*, **2020**, 59, 16998-17008	5.1	4
32	Proton affinity studies of nickel NS complexes and control of aggregation. *Journal of Biological Inorganic Chemistry*, **2019**, 24, 909-917	3.7	3
31	N,N?-Bis(Mercaptoethyl)-1,4-Diazacycloheptane (H2BME-DACH) and its Nickel Complex: A Model for Bioinorganic Chemistry. *Inorganic Syntheses*, **2014**, 231-240		3
30	Tetracarbonyl{[2-(Diphenylphosphino)Phenyl]Hydroxymethyl-C, P}Manganese. *Inorganic Syntheses*, **2007**, 169-171		3
29	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
28	Das Einf□ren axialer Liganden in Diazacyclooctannickel- und -zinkkomplexe. *Angewandte Chemie*, **1993**, 105, 72-74	3.6	3
27	Direct synthesis of mixed metal sulfide catalysts and their hydrodenitrogenation activity. *Applied Catalysis*, **1991**, 68, 229-247		3
26	Chromium, molybdenum, and tungsten. *Journal of Organometallic Chemistry*, **1981**, 223, 49-116	2.3	3
25	Ligand Displacement Reaction Paths in a Diiron Hydrogenase Active Site Model Complex. *Chemistry - A European Journal*, **2016**, 22, 12752-60	4.8	3
24	Dinitrosyl iron complexes (DNICs) as inhibitors of the SARS-CoV-2 main protease. *Chemical Communications*, **2021**, 57, 8352-8355	5.8	3
23	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

22	Mononuclear pentacarbonyl hydrides of chromium, molybdenum, and tungsten. *Inorganic Syntheses* , **2007**, 181-184		2
21	X-ray structure of [Nb(□5-C5H5)2(SCH2CH2CH2S].. *Polyhedron*, **2002**, 21, 2227-2235	2.7	2
20	Organometallic Chemistry Control of Hydrogenases **2021**, 275-300		2
19	Mechanism of Dioxygen Addition to Nickel-Bound Thiolates **1993**, 209-223		2
18	The roles of chalcogenides in O protection of Hase active sites. *Chemical Science*, **2020**, 11, 9366-9377	9.4	2
17	Connecting Main-Group Metals (Al, Ga, In) and Tungsten(0) Carbonyls via the N2S2 Metallo-Ligand Strategy. *Inorganics*, **2019**, 7, 115	2.9	2
16	Zinc thiotropolone combinations as inhibitors of the SARS-CoV-2 main protease. *Dalton Transactions*, **2021**, 50, 12226-12233	4.3	2
15	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
14	Addendum to Immobilization-Enabled Proton-Reduction Catalysis by a Di-iron Hydrogenase Mimic. *Electrocatalysis*, **2014**, 5, 113-113	2.7	1
13	A Reduced 2Fe2S Cluster Probe of Sulfur□Hydrogen versus Sulfur□Gold Interactions. *Angewandte Chemie*, **2015**, 127, 11254-11258	3.6	1
12	Modularer Aufbau von Clustern als nat□liche Strategie zur Synthese des aktiven Zentrums der [FeFe]-Hydrogenase. *Angewandte Chemie*, **2010**, 122, 8747-8749	3.6	1
11	Chromium, molybdenum and tungsten: Annual survey covering the year 1973. *Journal of Organometallic Chemistry*, **1974**, 83, 309-425	2.3	1
10	Chromium, molybdenum and tungsten. *Journal of Organometallic Chemistry*, **1976**, 115, 221-325	2.3	1
9	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
8	SYNTHESIS OF SELECTED TRANSITION METAL AND MAIN GROUP COMPOUNDS WITH SYNTHETIC APPLICATIONS. *Inorganic Syntheses*, **2018**, 155-204		1
7	Linear and Bent Nitric Oxide Ligand Binding in an Asymmetric Butterfly Complex:. *Inorganic Chemistry*, **2021**, 60, 15975-15979	5.1	0
6	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
5	Simple Techniques Can Give Pleasurable Results. *Journal of Chemical Education*, **1996**, 73, A273	2.4	

4	□5-Cyclopentadienylchromium Complexes of Sulfur. *Inorganic Syntheses*,251-254	
3	□3-Allylhydridobis[Ethylenebis (Diphenylphosphine)]Molybdenum(II). *Inorganic Syntheses*,201-203	
2	Metal-Templated, Tight Loop Conformation of a Cys-X-Cys Biomimetic Assembles a Dimanganese Complex. *Angewandte Chemie*, **2020**, 132, 3674-3678	3.6
1	Self-Assembled Nickel-4 Supramolecular Squares and Assays for HER Electrocatalysts Derived Therefrom. *Inorganic Chemistry*, **2021**, 60, 7051-7061	5.1