

Jason Shearer

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72
papers

2,555
citations

33
h-index

48
g-index

75
ext. papers

2,777
ext. citations

8.9
avg, IF

5.06
L-index

#	Paper	IF	Citations
72	The amyloid-beta peptide of Alzheimer's disease binds Cu(I) in a linear bis-his coordination environment: insight into a possible neuroprotective mechanism for the amyloid-beta peptide. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17826-35	16.4	155
71	Alkylation of Nucleic Acids by a Model Quinone Methide. <i>Journal of the American Chemical Society</i> , 1999 , 121, 6773-6779	16.4	123
70	A nickel phosphine complex as a fast and efficient hydrogen production catalyst. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1109-15	16.4	116
69	Synthesis and reactivity of a mononuclear non-haem cobalt(IV)-oxo complex. <i>Nature Communications</i> , 2017 , 8, 14839	17.4	94
68	Substrate oxidation by copper-dioxygen adducts: mechanistic considerations. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5469-83	16.4	92
67	Tuning copper-dioxygen reactivity and exogenous substrate oxidations via alterations in ligand electronics. <i>Journal of the American Chemical Society</i> , 2003 , 125, 634-5	16.4	84
66	Synthetic models for the cysteinylated non-heme iron enzyme superoxide reductase: observation and structural characterization by XAS of an Fe(III)-OOH intermediate. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11709-17	16.4	78
65	A nickel superoxide dismutase maquette that reproduces the spectroscopic and functional properties of the metalloenzyme. <i>Inorganic Chemistry</i> , 2006 , 45, 2358-60	5.1	71
64	Distinguishing rate-limiting electron versus H-atom transfers in Cu ₂ O ₂ -mediated oxidative N-dealkylations: application of inter- versus intramolecular kinetic isotope effects. <i>Journal of the American Chemical Society</i> , 2003 , 125, 12670-1	16.4	62
63	Bisamidate and mixed amine/amidate NiN ₂ S ₂ complexes as models for nickel-containing acetyl coenzyme A synthase and superoxide dismutase: an experimental and computational study. <i>Inorganic Chemistry</i> , 2010 , 49, 5393-406	5.1	60
62	Isolation of a (dinitrogen)tricopper(I) complex. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13502-5	16.4	59
61	Why is there an "inert" metal center in the active site of nitrile hydratase? Reactivity and ligand dissociation from a five-coordinate Co(III) nitrile hydratase model. <i>Journal of the American Chemical Society</i> , 2001 , 123, 463-8	16.4	59
60	Probing variable axial ligation in nickel superoxide dismutase utilizing metalloprotein-based models: insight into the superoxide disproportionation mechanism. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14605-18	16.4	58
59	How Do Oxidized Thiolate Ligands Affect the Electronic and Reactivity Properties of a Nitrile Hydratase Model Compound?. <i>Journal of the American Chemical Society</i> , 2000 , 122, 8299-8300	16.4	56
58	[Me ₄ N](Ni(II)(BEAAM)): a synthetic model for nickel superoxide dismutase that contains Ni in a mixed amine/amide coordination environment. <i>Inorganic Chemistry</i> , 2006 , 45, 9637-9	5.1	54
57	Phenol nitration induced by an {Fe(NO) ₂ }(10) dinitrosyl iron complex. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1184-7	16.4	53
56	A Redox-Active, Compact Molecule for Cross-Linking Amyloidogenic Peptides into Nontoxic, Off-Pathway Aggregates: In Vitro and In Vivo Efficacy and Molecular Mechanisms. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14785-97	16.4	52

55	Manganese complexes of 1,3,5-triaza-7-phosphaadamantane (PTA): the first nitrogen-bound transition-metal complex of PTA. <i>Inorganic Chemistry</i> , 2006 , 45, 3481-3	5.1	49
54	The first example of a nitrile hydratase model complex that reversibly binds nitriles. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11417-28	16.4	49
53	Metallopeptide based mimics with substituted histidines approximate a key hydrogen bonding network in the metalloenzyme nickel superoxide dismutase. <i>Inorganic Chemistry</i> , 2009 , 48, 10560-71	5.1	47
52	The influence of amine/amide versus bisamide coordination in nickel superoxide dismutase. <i>Inorganic Chemistry</i> , 2006 , 45, 10552-66	5.1	47
51	Insight into the structure and mechanism of nickel-containing superoxide dismutase derived from peptide-based mimics. <i>Accounts of Chemical Research</i> , 2014 , 47, 2332-41	24.3	46
50	The copper(II) adduct of the unstructured region of the amyloidogenic fragment derived from the human prion protein is redox-active at physiological pH. <i>Inorganic Chemistry</i> , 2007 , 46, 710-9	5.1	46
49	Subtle Modulation of Cu ₄ X ₄ L ₂ Phosphine Cluster Cores Leads to Changes in Luminescence. <i>Inorganic Chemistry</i> , 2015 , 54, 6245-56	5.1	43
48	Probing variable amine/amide ligation in Ni(II)N ₂ S ₂ complexes using sulfur K-edge and nickel L-edge X-ray absorption spectroscopies: implications for the active site of nickel superoxide dismutase. <i>Inorganic Chemistry</i> , 2008 , 47, 2649-60	5.1	41
47	Steric and electronic control over the reactivity of a thiolate-ligated Fe(II) complex with dioxygen and superoxide: reversible mu-oxo dimer formation. <i>Inorganic Chemistry</i> , 2004 , 43, 7682-90	5.1	38
46	Periodic trends within a series of five-coordinate thiolate-ligated [MII(SMe ₂ N ₄ (tren))] ⁺ (M = Mn, Fe, Co, Ni, Cu, Zn) complexes, including a rare example of a stable CuII-thiolate. <i>Inorganic Chemistry</i> , 2007 , 46, 9267-77	5.1	38
45	Modulation of luminescence by subtle anion-cation and anion-π interactions in a trigonal Au(I)⋯Cu(I) complex. <i>Inorganic Chemistry</i> , 2012 , 51, 1207-9	5.1	37
44	Cu K-edge X-ray absorption spectroscopy reveals differential copper coordination within amyloid-β oligomers compared to amyloid-β monomers. <i>Chemical Communications</i> , 2010 , 46, 9137-9	5.8	37
43	Luminescent copper(I) halide butterfly dimers coordinated to [Au(CH ₃ imCH ₂ py) ₂]BF ₄ and [Au(CH ₃ imCH ₂ quin) ₂]BF ₄ . <i>Inorganic Chemistry</i> , 2009 , 48, 11362-75	5.1	37
42	Heme/Cu/O ₂ reactivity: change in FeIII-(O ₂ ²⁻)-CuII unit peroxo binding geometry effected by tridentate copper chelation. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12716-7	16.4	34
41	Model Peptide Studies Reveal a Mixed Histidine-Methionine Cu(I) Binding Site at the N-Terminus of Human Copper Transporter 1. <i>Inorganic Chemistry</i> , 2015 , 54, 8544-51	5.1	33
40	Characterization and dioxygen reactivity of a new series of coordinatively unsaturated thiolate-ligated manganese(II) complexes. <i>Inorganic Chemistry</i> , 2012 , 51, 6633-44	5.1	33
39	How does cyanide inhibit superoxide reductase? Insight from synthetic FeIII-N ₄ S model complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 3671-6	11.5	33
38	Modeling the reactivity of superoxide reducing metalloenzymes with a nitrogen and sulfur coordinated iron complex. <i>Inorganic Chemistry</i> , 2001 , 40, 5483-4	5.1	33

- 37 Tripyrrindione as a Redox-Active Ligand: Palladium(II) Coordination in Three Redox States. *Angewandte Chemie - International Edition*, **2015**, 54, 14894-7 16.4 31
- 36 An Air- and Water-Tolerant Zinc Hydride Cluster That Reacts Selectively With CO₂. *Angewandte Chemie - International Edition*, **2015**, 54, 7047-50 16.4 29
- 35 Novel alkoxide cluster topologies featuring rare seesaw geometry at transition metal centers. *Chemistry - A European Journal*, **2013**, 19, 12225-8 4.8 27
- 34 Both Met(109) and Met(112) are utilized for Cu(II) coordination by the amyloidogenic fragment of the human prion protein at physiological pH. *Journal of Inorganic Biochemistry*, **2008**, 102, 2103-13 4.2 27
- 33 Sequence proximity between Cu(II) and Cu(I) binding sites of human copper transporter 1 model peptides defines reactivity with ascorbate and O₂. *Journal of Inorganic Biochemistry*, **2016**, 158, 70-76 4.2 25
- 32 Properties of square-pyramidal alkyl-thiolate Fe(III) complexes, including an analogue of the unmodified form of nitrile hydratase. *Inorganic Chemistry*, **2008**, 47, 11228-36 5.1 25
- 31 Enhancing reactivity via structural distortion. *Inorganic Chemistry*, **2002**, 41, 3128-36 5.1 25
- 30 Reduction of CO by a masked two-coordinate cobalt(i) complex and characterization of a proposed oxodicobalt(ii) intermediate. *Chemical Science*, **2019**, 10, 918-929 9.4 23
- 29 A [3Fe-3S](3+) cluster with exclusively π -sulfide donors. *Chemical Communications*, **2016**, 52, 1174-7 5.8 23
- 28 Influence of sequential thiolate oxidation on a nitrile hydratase mimic probed by multiedge X-ray absorption spectroscopy. *Inorganic Chemistry*, **2012**, 51, 6032-45 5.1 23
- 27 A Ni(Salen)-Biotin Conjugate for Rapid Isolation of Accessible DNA. *Journal of the American Chemical Society*, **2000**, 122, 9046-9047 16.4 22
- 26 Transformation of a mononitrosyl iron complex to a [2Fe-2S] cluster by a cysteine analogue. *Journal of the American Chemical Society*, **2014**, 136, 7229-32 16.4 21
- 25 Use of a metalloprotein-based mimic provides evidence for a proton-coupled electron-transfer mechanism for superoxide reduction by nickel-containing superoxide dismutase. *Angewandte Chemie - International Edition*, **2013**, 52, 2569-72 16.4 21
- 24 Use of metalloprotein based mimics demonstrates that the metalloprotein nitrile hydratase requires two oxidized cysteinates for catalytic activity. *Inorganic Chemistry*, **2010**, 49, 9064-77 5.1 19
- 23 Crystallographic and computational studies of luminescent, binuclear gold(I) complexes, Au(I)₂(Ph₂P(CH₂)_nPPh₂)₂I₂ (n = 3-6). *Inorganic Chemistry*, **2013**, 52, 823-31 5.1 17
- 22 Interactions of Metal-Based and Ligand-Based Electronic Spins in Neutral Tripyrrindione μ -Dimers. *Inorganic Chemistry*, **2017**, 56, 6755-6762 5.1 16
- 21 Cysteinate protonation and water hydrogen bonding at the active-site of a nickel superoxide dismutase metalloprotein-based mimic: implications for the mechanism of superoxide reduction. *Journal of the American Chemical Society*, **2014**, 136, 16009-22 16.4 16
- 20 Synthesis, characterization, and crystal structure of a quadruply bonded dimolybdenum(II) complex containing the water-soluble phosphine 1,3,5-triaza-7-phosphaadamantane (PTA). *Inorganica Chimica Acta*, **2006**, 359, 283-288 2.7 16

19	A Co(III) complex in a mixed sulfur/nitrogen ligand environment: modeling the substrate- and product-bound forms of the metalloenzyme thiocyanate hydrolase. <i>Inorganic Chemistry</i> , 2000 , 39, 4998-9 ^{5.1}	14
18	Structure and Unprecedented Reactivity of a Mononuclear Nonheme Cobalt(III) Iodosylbenzene Complex. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13581-13585	16.4 12
17	Tripyrrindione as a Redox-Active Ligand: Palladium(II) Coordination in Three Redox States. <i>Angewandte Chemie</i> , 2015 , 127, 15107-15110	3.6 12
16	A Biochemical Nickel(I) State Supports Nucleophilic Alkyl Addition: A Roadmap for Methyl Reactivity in Acetyl Coenzyme A Synthase. <i>Inorganic Chemistry</i> , 2019 , 58, 8969-8982	5.1 11
15	Dioxygen and superoxide stability of metalloprotein based mimics of nickel containing superoxide dismutase: the influence of amine/amidate vs. bis-amidate ligation. <i>Journal of Inorganic Biochemistry</i> , 2013 , 129, 145-9	4.2 10
14	One octarepeat expansion to the human prion protein alters both the Zn ²⁺ and Cu ²⁺ coordination environments within the octarepeat domain. <i>Inorganic Chemistry</i> , 2011 , 50, 1173-5	5.1 10
13	Ni K-edge XAS suggests that coordination of Ni(II) to the unstructured amyloidogenic region of the human prion protein produces a Ni(2) bis-μ-hydroxo dimer. <i>Journal of Inorganic Biochemistry</i> , 2007 , 101, 370-3	4.2 9
12	Chalcogen Impact on Covalency within Molecular [Cu(E)] Clusters (E = O, S, Se): A Synthetic, Spectroscopic, and Computational Study. <i>Inorganic Chemistry</i> , 2018 , 57, 11382-11392	5.1 7
11	Dinitrogen Insertion and Cleavage by a Metal-Metal Bonded Tricobalt(I) Cluster. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5649-5653	16.4 6
10	Adiabaticity of the proton-coupled electron-transfer step in the reduction of superoxide effected by nickel-containing superoxide dismutase metalloprotein-based mimics. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 5453-61	3.4 4
9	Use of a Metalloprotein-Based Mimic Provides Evidence for a Proton-Coupled Electron-Transfer Mechanism for Superoxide Reduction by Nickel-Containing Superoxide Dismutase. <i>Angewandte Chemie</i> , 2013 , 125, 2629-2632	3.6 4
8	Influence of sequential guanidinium methylation on the energetics of the guanidinium...guanine dimer and guanidinium...guanine...cytosine trimer: implications for the control of protein...DNA interactions by arginine methyltransferases. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 16995-7002	3.4 2
7	Preparation and properties of [NiII(BEES)(Cl)](BPh ₄): a NiII complex in a mixed nitrogen/thioether coordination environment. <i>Inorganica Chimica Acta</i> , 2002 , 336, 61-64	2.7 1
6	pH Dependent Reversible Formation of a Binuclear Ni ₂ Metal-Center within a Peptide Scaffold. <i>Inorganics</i> , 2019 , 7, 90	2.9 0
5	The Oxo-Wall Remains Intact: A Tetrahedrally Distorted Co(IV)-Oxo Complex. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16943-16959	16.4 0
4	Access to Metal Centers and Fluxional Hydride Coordination Integral for CO Insertion into [Fe(H)] Clusters. <i>Inorganic Chemistry</i> , 2021 , 60, 7228-7239	5.1 0
3	Scaffold-based [Fe]-hydrogenase model: H activation initiates Fe(0)-hydride extrusion and non-biomimetic hydride transfer. <i>Chemical Science</i> , 2021 , 12, 12838-12846	9.4 0
2	Structure and Unprecedented Reactivity of a Mononuclear Nonheme Cobalt(III) Iodosylbenzene Complex. <i>Angewandte Chemie</i> , 2020 , 132, 13683-13687	3.6

- 1 Controlled Protonation of [2Fe-2S] Leading to MitoNEET Analogues and Concurrent Cluster Modification. *Inorganic Chemistry*, **2021**, 60, 16074-16078

5.1