

Joan Selverstone Valentine

List of Publications by Year in descending order

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234
papers

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4370

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times ranked

17536
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#	ARTICLE	IF	CITATIONS
1	A pH Switch Controls Zinc Binding in Tomato Copper-Zinc Superoxide Dismutase. <i>Biochemistry</i> , 2021, 60, 1597-1608.	1.2	0
2	An ecophysiological explanation for manganese enrichment in rock varnish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	19
3	A Novel SOD1 Intermediate Oligomer, Role of Free Thiols and Disulfide Exchange. <i>Frontiers in Neuroscience</i> , 2020, 14, 619279.	1.4	4
4	How did life come to tolerate and thrive in an oxygenated world?. <i>Free Radical Biology and Medicine</i> , 2019, 140, 1-3.	1.3	3
5	How manganese empowered life with dioxygen (and vice versa). <i>Free Radical Biology and Medicine</i> , 2019, 140, 113-125.	1.3	33
6	Exposure of Solvent-Inaccessible Regions in the Amyloidogenic Protein Human SOD1 Determined by Hydroxyl Radical Footprinting. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 218-226.	1.2	8
7	Biological Chemistry of Copper-Zinc Superoxide Dismutase and Its Link to Amyotrophic Lateral Sclerosis. , 2018, , 125-177.		12
8	Distinct Reactivity of a Mononuclear Peroxocobalt(III) Species toward Activation of Nitriles. <i>Journal of the American Chemical Society</i> , 2017, 139, 10960-10963.	6.6	19
9	Relationship between mutant Cu/Zn superoxide dismutase 1 maturation and inclusion formation in cell models. <i>Journal of Neurochemistry</i> , 2017, 140, 140-150.	2.1	15
10	How did life survive Earth's great oxygenation?. <i>Current Opinion in Chemical Biology</i> , 2016, 31, 166-178.	2.8	92
11	Solving 21st Century Problems in Biological Inorganic Chemistry Using Synthetic Models. <i>Accounts of Chemical Research</i> , 2015, 48, 2659-2660.	7.6	6
12	The Disulfide Bond, but Not Zinc or Dimerization, Controls Initiation and Seeded Growth in Amyotrophic Lateral Sclerosis-linked Cu,Zn Superoxide Dismutase (SOD1) Fibrillation. <i>Journal of Biological Chemistry</i> , 2015, 290, 30624-30636.	1.6	50
13	Insights into the Role of the Unusual Disulfide Bond in Copper-Zinc Superoxide Dismutase. <i>Journal of Biological Chemistry</i> , 2015, 290, 2405-2418.	1.6	61
14	Differential localization and potency of manganese porphyrin superoxide dismutase-mimicking compounds in <i>Saccharomyces cerevisiae</i> . <i>Redox Biology</i> , 2014, 3, 1-6.	3.9	14
15	Insights into SOD1-linked amyotrophic lateral sclerosis from NMR studies of Ni ²⁺ - and other metal-ion-substituted wild-type copper-zinc superoxide dismutases. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 647-657.	1.1	9
16	Superoxide Dismutases and Superoxide Reductases. <i>Chemical Reviews</i> , 2014, 114, 3854-3918.	23.0	717
17	Yeast copper-zinc superoxide dismutase can be activated in the absence of its copper chaperone. <i>Journal of Biological Inorganic Chemistry</i> , 2013, 18, 985-992.	1.1	7
18	Calcium Ions Promote Superoxide Dismutase 1 (SOD1) Aggregation into Non-fibrillar Amyloid. <i>Journal of Biological Chemistry</i> , 2013, 288, 25219-25228.	1.6	52

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19	Structural similarity of wild-type and ALS-mutant superoxide dismutase-1 fibrils using limited proteolysis and atomic force microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10934-10939.	3.3	47
20	SOD1 Aggregation and ALS: Role of Metallation States and Disulfide Status. <i>Current Topics in Medicinal Chemistry</i> , 2013, 12, 2560-2572.	1.0	89
21	Tetramerization Reinforces the Dimer Interface of MnSOD. <i>PLoS ONE</i> , 2013, 8, e62446.	1.1	15
22	SOD1 Aggregation and ALS: Role of Metallation States and Disulfide Status. <i>Current Topics in Medicinal Chemistry</i> , 2013, 999, 22-28.	1.0	1
23	Six-coordinate manganese(3+) in catalysis by yeast manganese superoxide dismutase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14314-14319.	3.3	30
24	Predictive studies of H-atom abstraction reactions by an iron(IV) oxo corrole cation radical oxidant. <i>Chemical Communications</i> , 2012, 48, 3491.	2.2	20
25	Biologically relevant mechanism for catalytic superoxide removal by simple manganese compounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6892-6897.	3.3	142
26	A novel variant of human superoxide dismutase 1 harboring amyotrophic lateral sclerosis-associated and experimental mutations in metal-binding residues and free cysteines lacks toxicity <i>in vivo</i> . <i>Journal of Neurochemistry</i> , 2012, 121, 475-485.	2.1	20
27	Comparison of Two Yeast MnSODs: Mitochondrial <i>Saccharomyces cerevisiae</i> versus Cytosolic <i>Candida albicans</i> . <i>Journal of the American Chemical Society</i> , 2011, 133, 20878-20889.	6.6	37
28	Comparative Characterization of Fungal Anthracenone and Naphthacenedione Biosynthetic Pathways Reveals an α -Hydroxylation-Dependent Claisen-like Cyclization Catalyzed by a Dimanganese Thioesterase. <i>Journal of the American Chemical Society</i> , 2011, 133, 15773-15785.	6.6	81
29	Structure and reactivity of a mononuclear non-haem iron(III) peroxo complex. <i>Nature</i> , 2011, 478, 502-505.	13.7	292
30	Conference Scene: ALS in California: a report from the First Annual California ALS Research Summit. <i>Neurodegenerative Disease Management</i> , 2011, 1, 281-284.	1.2	1
31	Metabolic alterations in yeast lacking copper-zinc superoxide dismutase. <i>Free Radical Biology and Medicine</i> , 2011, 50, 1591-1598.	1.3	29
32	Copper and Zinc Metallation Status of Copper-Zinc Superoxide Dismutase from Amyotrophic Lateral Sclerosis Transgenic Mice. <i>Journal of Biological Chemistry</i> , 2011, 286, 2795-2806.	1.6	112
33	Accumulation of Porphyrin-based SOD Mimics in Mitochondria is Proportional to Their Lipophilicity: <i>S. cerevisiae</i> Study of ortho Mn(III) N-alkylpyridylporphyrins. <i>Free Radical Biology and Medicine</i> , 2010, 49, S199.	1.3	18
34	A Biomimetic Ferric Hydroperoxo Porphyrin Intermediate. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2099-2101.	7.2	61
35	Probing <i>in vivo</i> Mn ²⁺ speciation and oxidative stress resistance in yeast cells with electron-nuclear double resonance spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15335-15339.	3.3	113
36	Climate Change and the Integrity of Science. <i>Science</i> , 2010, 328, 689-690.	6.0	143

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37	Reversible O-O Bond Cleavage and Formation between Mn(IV)-Peroxo and Mn(V)-Oxo Corroles. <i>Journal of the American Chemical Society</i> , 2010, 132, 14030-14032.	6.6	81
38	Investigation of the Highly Active Manganese Superoxide Dismutase from <i>Saccharomyces cerevisiae</i> . <i>Journal of the American Chemical Society</i> , 2010, 132, 12525-12527.	6.6	24
39	Disrupted Zinc-Binding Sites in Structures of Pathogenic SOD1 Variants D124V and H80R. <i>Biochemistry</i> , 2010, 49, 5714-5725.	1.2	50
40	Metal Deficiency Increases Aberrant Hydrophobicity of Mutant Superoxide Dismutases That Cause Amyotrophic Lateral Sclerosis. <i>Journal of Biological Chemistry</i> , 2009, 284, 27746-27758.	1.6	60
41	Metal-free Superoxide Dismutase-1 and Three Different Amyotrophic Lateral Sclerosis Variants Share a Similar Partially Unfolded β^2 -Barrel at Physiological Temperature. <i>Journal of Biological Chemistry</i> , 2009, 284, 34382-34389.	1.6	39
42	Aggregation of Copper-Zinc Superoxide Dismutase in Familial and Sporadic ALS. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 1603-1614.	2.5	140
43	Radioprotective effects of manganese-containing superoxide dismutase mimics on ataxia-telangiectasia cells. <i>Free Radical Biology and Medicine</i> , 2009, 47, 250-260.	1.3	65
44	Loss of Metal Ions, Disulfide Reduction and Mutations Related to Familial ALS Promote Formation of Amyloid-Like Aggregates from Superoxide Dismutase. <i>PLoS ONE</i> , 2009, 4, e5004.	1.1	113
45	Manganous Phosphate Acts as a Superoxide Dismutase. <i>Journal of the American Chemical Society</i> , 2008, 130, 4604-4606.	6.6	171
46	Initiation and elongation in fibrillation of ALS-linked superoxide dismutase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18663-18668.	3.3	205
47	Introduction: Reactive Oxygen Species Special Feature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8178-8178.	3.3	19
48	Detergent-insoluble Aggregates Associated with Amyotrophic Lateral Sclerosis in Transgenic Mice Contain Primarily Full-length, Unmodified Superoxide Dismutase-1. <i>Journal of Biological Chemistry</i> , 2008, 283, 8340-8350.	1.6	79
49	Structures of the G85R Variant of SOD1 in Familial Amyotrophic Lateral Sclerosis. <i>Journal of Biological Chemistry</i> , 2008, 283, 16169-16177.	1.6	85
50	SOD1 and Amyotrophic Lateral Sclerosis: Mutations and Oligomerization. <i>PLoS ONE</i> , 2008, 3, e1677.	1.1	160
51	Metal-free superoxide dismutase forms soluble oligomers under physiological conditions: A possible general mechanism for familial ALS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11263-11267.	3.3	219
52	Metalation of the Amyotrophic Lateral Sclerosis Mutant Glycine 37 to Arginine Superoxide Dismutase (SOD1) Apoprotein Restores Its Structural and Dynamical Properties in Solution to Those of Metalated Wild-Type SOD1. <i>Biochemistry</i> , 2007, 46, 9953-9962.	1.2	25
53	Binding of a Single Zinc Ion to One Subunit of Copper-Zinc Superoxide Dismutase Apoprotein Substantially Influences the Structure and Stability of the Entire Homodimeric Protein. <i>Journal of the American Chemical Society</i> , 2007, 129, 4575-4583.	6.6	97
54	How do ALS-associated mutations in superoxide dismutase 1 promote aggregation of the protein?. <i>Trends in Biochemical Sciences</i> , 2007, 32, 78-85.	3.7	236

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55	Only one of a wide assortment of manganese-containing SOD mimicking compounds rescues the slow aerobic growth phenotypes of both <i>Escherichia coli</i> and <i>Saccharomyces cerevisiae</i> strains lacking superoxide dismutase enzymes. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1875-1882.	1.5	50
56	Variable Metallation of Human Superoxide Dismutase: Atomic Resolution Crystal Structures of Cu ²⁺ Zn, Zn ²⁺ Zn and As-isolated Wild-type Enzymes. <i>Journal of Molecular Biology</i> , 2006, 356, 1152-1162.	2.0	156
57	Superoxide dismutase 1 modulates expression of transferrin receptor. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 489-498.	1.1	41
58	Local Unfolding in a Destabilized, Pathogenic Variant of Superoxide Dismutase 1 Observed with H/D Exchange and Mass Spectrometry. <i>Journal of Biological Chemistry</i> , 2006, 281, 18167-18176.	1.6	58
59	Familial ALS-superoxide dismutases associate with mitochondria and shift their redox potentials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13860-13865.	3.3	231
60	Exogenous manganous ion at millimolar levels rescues all known dioxygen-sensitive phenotypes of yeast lacking CuZnSOD. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 913-923.	1.1	53
61	Metal-Deficient Copper-Zinc Superoxide Dismutase and Familial Amyotrophic Lateral Sclerosis. <i>ACS Symposium Series</i> , 2005, , 348-365.	0.5	1
62	Destabilization of apoprotein is insufficient to explain Cu,Zn-superoxide dismutase-linked ALS pathogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10516-10521.	3.3	148
63	Fully Metallated S134N Cu,Zn-Superoxide Dismutase Displays Abnormal Mobility and Intermolecular Contacts in Solution. <i>Journal of Biological Chemistry</i> , 2005, 280, 35815-35821.	1.6	56
64	Induction of Phenotypes Resembling CuZn-Superoxide Dismutase Deletion in Wild-Type Yeast Cells: An In Vivo Assay for the Role of Superoxide in the Toxicity of Redox-Cycling Compounds. <i>Chemical Research in Toxicology</i> , 2005, 18, 1279-1286.	1.7	34
65	Structural consequences of the familial amyotrophic lateral sclerosis SOD1 mutant His46Arg. <i>Protein Science</i> , 2005, 14, 1201-1213.	3.1	75
66	COPPER-ZINC SUPEROXIDE DISMUTASE AND AMYOTROPHIC LATERAL SCLEROSIS. <i>Annual Review of Biochemistry</i> , 2005, 74, 563-593.	5.0	679
67	Superoxide Inhibits 4Fe-4S Cluster Enzymes Involved in Amino Acid Biosynthesis. <i>Journal of Biological Chemistry</i> , 2004, 279, 32055-32062.	1.6	110
68	Mechanisms for activating Cu- and Zn-containing superoxide dismutase in the absence of the CCS Cu chaperone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5964-5969.	3.3	163
69	Mutations in <i>Saccharomyces cerevisiae</i> Iron-Sulfur Cluster Assembly Genes and Oxidative Stress Relevant to Cu,Zn Superoxide Dismutase. <i>Journal of Biological Chemistry</i> , 2004, 279, 29938-29943.	1.6	28
70	Dimer destabilization in superoxide dismutase may result in disease-causing properties: Structures of motor neuron disease mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5976-5981.	3.3	198
71	Dissociation of Human Copper-Zinc Superoxide Dismutase Dimers Using Chaotrope and Reductant. <i>Journal of Biological Chemistry</i> , 2004, 279, 54558-54566.	1.6	149
72	Local Nanomechanical Motion of the Cell Wall of <i>Saccharomyces cerevisiae</i> . <i>Science</i> , 2004, 305, 1147-1150.	6.0	328

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73	The perplexing role of copper-zinc superoxide dismutase in amyotrophic lateral sclerosis (Lou) Tj ETQq1 1 0.784314 1.5 BT /Overlock 10 T	1.5	54
74	Amyloid-like filaments and water-filled nanotubes formed by SOD1 mutant proteins linked to familial ALS. Nature Structural and Molecular Biology, 2003, 10, 461-467.	3.6	311
75	Dynamic Properties of the G93A Mutant of Copper-Zinc Superoxide Dismutase As Detected by NMR Spectroscopy: Implications for the Pathology of Familial Amyotrophic Lateral Sclerosis. Biochemistry, 2003, 42, 1890-1899.	1.2	60
76	The Structure of Holo and Metal-deficient Wild-type Human Cu, Zn Superoxide Dismutase and its Relevance to Familial Amyotrophic Lateral Sclerosis. Journal of Molecular Biology, 2003, 328, 877-891.	2.0	222
77	Spectroscopic Investigation of Stellacyanin Mutants: Axial Ligand Interactions at the Blue Copper Site. Journal of the American Chemical Society, 2003, 125, 11314-11328.	6.6	85
78	Misfolded CuZnSOD and amyotrophic lateral sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3617-3622.	3.3	510
79	An Alternative Mechanism of Bicarbonate-mediated Peroxidation by Copper-Zinc Superoxide Dismutase. Journal of Biological Chemistry, 2003, 278, 21032-21039.	1.6	77
80	SOD2 Functions Downstream of Sch9 to Extend Longevity in Yeast. Genetics, 2003, 163, 35-46.	1.2	312
81	Familial Amyotrophic Lateral Sclerosis-associated Mutations Decrease the Thermal Stability of Distinctly Metallated Species of Human Copper/Zinc Superoxide Dismutase. Journal of Biological Chemistry, 2002, 277, 15932-15937.	1.6	206
82	Decreased Metallation and Activity in Subsets of Mutant Superoxide Dismutases Associated with Familial Amyotrophic Lateral Sclerosis. Journal of Biological Chemistry, 2002, 277, 15923-15931.	1.6	324
83	In vivo peroxidative activity of FALS-mutant human CuZnSODs expressed in yeast. Free Radical Biology and Medicine, 2002, 32, 169-174.	1.3	33
84	Do oxidatively modified proteins cause ALS?. Free Radical Biology and Medicine, 2002, 33, 1314-1320.	1.3	63
85	Crowding and hydration effects on protein conformation: a study with sol-gel encapsulated proteins 1 Edited by P. E. Wright. Journal of Molecular Biology, 2001, 314, 911-922.	2.0	236
86	Molecular confinement influences protein structure and enhances thermal protein stability. Protein Science, 2001, 10, 250-261.	3.1	378
87	Evidence for a Novel Role of Copper-Zinc Superoxide Dismutase in Zinc Metabolism. Journal of Biological Chemistry, 2001, 276, 44798-44803.	1.6	54
88	Yeast Lacking Cu-Zn Superoxide Dismutase Show Altered Iron Homeostasis. Journal of Biological Chemistry, 2000, 275, 11645-11649.	1.6	82
89	Models of Superoxide Dismutases. , 2000, , 461-508.		21
90	Loss of in Vitro Metal Ion Binding Specificity in Mutant Copper-Zinc Superoxide Dismutases Associated with Familial Amyotrophic Lateral Sclerosis. Journal of Biological Chemistry, 2000, 275, 1007-1014.	1.6	149

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91	Yeast Lacking Superoxide Dismutase(s) Show Elevated Levels of "Free Iron" as Measured by Whole Cell Electron Paramagnetic Resonance. <i>Journal of Biological Chemistry</i> , 2000, 275, 29187-29192.	1.6	118
92	Effects of Nitric Oxide on the Copper-Responsive Transcription Factor Ace1 in <i>Saccharomyces cerevisiae</i> : Cytotoxic and Cytoprotective Actions of Nitric Oxide. <i>Archives of Biochemistry and Biophysics</i> , 2000, 377, 296-303.	1.4	32
93	Copper(2+) Binding to the Surface Residue Cysteine 111 of His46Arg Human Copper~Zinc Superoxide Dismutase, a Familial Amyotrophic Lateral Sclerosis Mutant. <i>Biochemistry</i> , 2000, 39, 8125-8132.	1.2	89
94	Cobalt(2+) Binding to Human and Tomato Copper Chaperone for Superoxide Dismutase: Implications for the Metal Ion Transfer Mechanism. <i>Biochemistry</i> , 2000, 39, 5413-5421.	1.2	58
95	X-ray Absorption Edge and EXAFS Studies of the Blue Copper Site in Steller Cyanin: Effects of Axial Amide Coordination. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10814-10819.	1.2	50
96	Structural Information through NMR Hyperfine Shifts in Blue Copper Proteins. <i>Journal of the American Chemical Society</i> , 2000, 122, 3701-3707.	6.6	95
97	X-ray Crystallographic and Analytical Ultracentrifugation Analyses of Truncated and Full-Length Yeast Copper Chaperones for SOD (LYS7): A Dimer~Dimer Model of LYS7~SOD Association and Copper Delivery. <i>Biochemistry</i> , 2000, 39, 3611-3623.	1.2	50
98	Nucleophilicity of Iron-Peroxo Porphyrin Complexes. <i>Structure and Bonding</i> , 2000, , 37-60.	1.0	88
99	Bio-inorganic chemistry: what is it, and what's so exciting?. <i>Current Opinion in Chemical Biology</i> , 1999, 3, 129-130.	2.8	6
100	A Structure-Based Mechanism for Copper~Zinc Superoxide Dismutase. <i>Biochemistry</i> , 1999, 38, 2167-2178.	1.2	254
101	Synthesis of sol-gel encapsulated heme proteins with chemical sensing properties. <i>Journal of Materials Chemistry</i> , 1999, 9, 45-53.	6.7	134
102	Mitochondrial Superoxide Decreases Yeast Survival in Stationary Phase. <i>Archives of Biochemistry and Biophysics</i> , 1999, 365, 131-142.	1.4	205
103	Reactions of Copper-Zinc Superoxide Dismutases with Hydrogen Peroxide. , 1999, , 221-228.		1
104	Copper-Zinc Superoxide Dismutase and ALS. <i>Advances in Experimental Medicine and Biology</i> , 1999, 448, 193-203.	0.8	11
105	Metal ion reconstitution studies of yeast copper-zinc superoxide dismutase: the "phantom" subunit and the possible role of Lys7p. <i>Journal of Biological Inorganic Chemistry</i> , 1998, 3, 650-662.	1.1	46
106	Strategies for encapsulating biomolecules in sol-gel matrices. Paper presented at Sympos. Synergistic Synthesis of Inorganic Materials, March 1996, Schloß Ringberg, Germany. <i>Acta Materialia</i> , 1998, 46, 737-741.	3.8	102
107	The dark side of dioxygen biochemistry. <i>Current Opinion in Chemical Biology</i> , 1998, 2, 253-262.	2.8	189
108	Subunit asymmetry in the three-dimensional structure of a human CuZnSOD mutant found in familial amyotrophic lateral sclerosis. <i>Protein Science</i> , 1998, 7, 545-555.	3.1	101

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109	Uclacyanins, stellacyanins, and plantacyanins are distinct subfamilies of phycocyanins: Plant-specific mononuclear blue copper proteins. <i>Protein Science</i> , 1998, 7, 1915-1929.	3.1	167
110	Protein Folding Special Issue. <i>Accounts of Chemical Research</i> , 1998, 31, 697-697.	7.6	22
111	Mimicking Cytochrome P-450 2B4 and Aromatase: Aromatization of a Substrate Analogue by a Peroxo Fe(III) Porphyrin Complex. <i>Journal of the American Chemical Society</i> , 1998, 120, 5331-5332.	6.6	72
112	Spectroscopic and Geometric Variations in Perturbed Blue Copper Centers: Electronic Structures of Stellacyanin and Cucumber Basic Protein. <i>Journal of the American Chemical Society</i> , 1998, 120, 9621-9631.	6.6	140
113	Switching on the Nucleophilic Reactivity of a Ferric Porphyrin Peroxo Complex. <i>Journal of the American Chemical Society</i> , 1998, 120, 2652-2653.	6.6	83
114	Reactions of Hydrogen Peroxide with Familial Amyotrophic Lateral Sclerosis Mutant Human Copper-Zinc Superoxide Dismutases Studied by Pulse Radiolysis. <i>Journal of Biological Chemistry</i> , 1998, 273, 30104-30109.	1.6	59
115	Human Bcl-2 Reverses Survival Defects in Yeast Lacking Superoxide Dismutase and Delays Death of Wild-Type Yeast. <i>Journal of Cell Biology</i> , 1997, 137, 1581-1588.	2.3	203
116	Design for a New Year. <i>Accounts of Chemical Research</i> , 1997, 30, 1-1.	7.6	5
117	Metalloporphyrin Peroxo Complexes of Iron(III), Manganese(III), and Titanium(IV). Comparative Studies Demonstrating That the Iron(III) Complex Is Extremely Nucleophilic. <i>Inorganic Chemistry</i> , 1997, 36, 979-984.	1.9	78
118	BIOCHEMISTRY: Enhanced: Delivering Copper Inside Yeast and Human Cells. <i>Science</i> , 1997, 278, 817-818.	6.0	233
119	Engineering metal-binding sites in proteins. <i>Current Opinion in Structural Biology</i> , 1997, 7, 495-500.	2.6	117
120	Dioxygen activation by iron complexes. The search for reactive intermediates. <i>Journal of Molecular Catalysis A</i> , 1997, 117, 71-82.	4.8	18
121	Do posttranslational modifications of CuZnSOD lead to sporadic amyotrophic lateral sclerosis?. <i>Annals of Neurology</i> , 1997, 42, 135-137.	2.8	32
122	Nickel Complexes as Antioxidants. Inhibition of Aldehyde Autoxidation by Nickel(II) Tetraazamacrocycles. <i>Inorganic Chemistry</i> , 1996, 35, 6632-6633.	1.9	49
123	New Type 2 Copper-Cysteinate Proteins. Copper Site Histidine-to-Cysteine Mutants of Yeast Copper-Zinc Superoxide Dismutase. <i>Inorganic Chemistry</i> , 1996, 35, 1692-1700.	1.9	51
124	The Diverse Reactivity of Peroxy Ferric Porphyrin Complexes of Electron-Rich and Electron-Poor Porphyrins. <i>Journal of the American Chemical Society</i> , 1996, 118, 2008-2012.	6.6	80
125	Nanoconfined Proteins and Enzymes: Sol-Gel-Based Biomolecular Materials. <i>ACS Symposium Series</i> , 1996, , 351-365.	0.5	18
126	Unusual Trigonal-Planar Copper Configuration Revealed in the Atomic Structure of Yeast Copper-Zinc Superoxide Dismutase. <i>Biochemistry</i> , 1996, 35, 2316-2321.	1.2	116

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127	Copper~Zinc Superoxide Dismutase:~ Why Not pH-Dependent?. Journal of the American Chemical Society, 1996, 118, 6556-6561.	6.6	178
128	Altered Reactivity of Superoxide Dismutase in Familial Amyotrophic Lateral Sclerosis. Science, 1996, 271, 515-518.	6.0	715
129	Autoxidation of Ubiquinol-6 Is Independent of Superoxide Dismutase~. Biochemistry, 1996, 35, 6595-6603.	1.2	23
130	Mutations in copper-zinc superoxide dismutase that cause amyotrophic lateral sclerosis alter the zinc binding site and the redox behavior of the protein.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 12240-12244.	3.3	176
131	Metal Complex-Catalyzed Epoxidation of Olefins by Dioxygen with Co-Oxidation of Aldehydes. A Mechanistic Study. Inorganic Chemistry, 1996, 35, 1045-1049.	1.9	197
132	Short and Snappy. Accounts of Chemical Research, 1996, 29, 1-1.	7.6	6
133	Epoxidierung von elektronenarmen Olefinen mit einem nucleophilen Peroxo(porphyrinato)~Fe^{III}~Komplex, dem Peroxo(tetramesitylporphyrinato)ferrat(1~). Angewandte Chemie, 1996, 108, 195-196.	1.6	7
134	Epoxidation of Electron-Deficient Olefins by a Nucleophilic Iron(III) Peroxo Porphyrinato Complex, Peroxo(tetramesitylporphyrinato)ferrate(1~). Angewandte Chemie International Edition in English, 1996, 35, 206-208.	4.4	40
135	Encapsulation of the ferritin protein in sol-gel derived silica glasses. Journal of Sol-Gel Science and Technology, 1996, 7, 109-116.	1.1	20
136	Enzymatic activity of oxalate oxidase and kinetic measurements by optical methods in transparent sol-gel monoliths. Journal of Sol-Gel Science and Technology, 1996, 7, 117-121.	1.1	21
137	A missing link in cupredoxins: Crystal structure of cucumber stellacyanin at 1.6 Å... resolution. Protein Science, 1996, 5, 2175-2183.	3.1	181
138	Cloning, expression, and spectroscopic characterization of <i>Cucumis sativus</i> stellacyanin in its nonglycosylated form. Protein Science, 1996, 5, 2184-2192.	3.1	44
139	Superoxide Dismutase Activity Is Essential for Stationary Phase Survival in <i>Saccharomyces cerevisiae</i> . Journal of Biological Chemistry, 1996, 271, 12275-12280.	1.6	469
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