Christopher Dennison

List of Publications by Year
in descending order

95 papers	3,442 citations	117625 34 h-index	161849 54 g-index
98 all docs	98 docs citations	98 times ranked	2755 citing authors

#	Article	IF	Citations
1	Cytosolic Copper Binding by a Bacterial Storage Protein and Interplay with Copper Efflux. International Journal of Molecular Sciences, 2019, 20, 4144.	4.1	8
2	The Coordination Chemistry of Copper Uptake and Storage for Methane Oxidation. Chemistry - A European Journal, 2019, 25, 74-86.	3.3	10
3	Bacterial copper storage proteins. Journal of Biological Chemistry, 2018, 293, 4616-4627.	3.4	48
4	Insight into Metal Removal from Peptides that Sequester Copper for Methane Oxidation. Chemistry - A European Journal, 2018, 24, 4515-4518.	3.3	16
5	Visualizing Biological Copper Storage: The Importance of Thiolateâ€Coordinated Tetranuclear Clusters. Angewandte Chemie - International Edition, 2017, 56, 8697-8700.	13.8	16
6	Visualizing Biological Copper Storage: The Importance of Thiolateâ€Coordinated Tetranuclear Clusters. Angewandte Chemie, 2017, 129, 8823-8826.	2.0	3
7	Bacterial cytosolic proteins with a high capacity for Cu(I) that protect against copper toxicity. Scientific Reports, 2016, 6, 39065.	3.3	52
8	Methanobactin and the Link between Copper and Bacterial Methane Oxidation. Microbiology and Molecular Biology Reviews, 2016, 80, 387-409.	6.6	118
9	A four-helix bundle stores copper for methane oxidation. Nature, 2015, 525, 140-143.	27.8	83
10	The importance of Zn(<scp>ii</scp>) binding by the human copper metallochaperone for Cu,Zn-superoxide dismutase. RSC Advances, 2014, 4, 22542-22544.	3.6	5
11	How the Dynamics of the Metal-Binding Loop Region Controls the Acid Transition in Cupredoxins. Biochemistry, 2013, 52, 7397-7404.	2.5	5
12	Investigating the Role of Zinc and Copper Binding Motifs of Trafficking Sites in the Cyanobacterium <i>Synechocystis</i> PCC 6803. Biochemistry, 2013, 52, 6816-6823.	2.5	5
13	Crosstalk between Cu(i) and Zn(ii) homeostasis via Atx1 and cognate domains. Chemical Communications, 2013, 49, 8000.	4.1	16
14	The influence of protein folding on the copper affinities of trafficking and target sites. Dalton Transactions, 2013, 42, 3233-3239.	3.3	9
15	Refined Distances Between Paramagnetic Centers of a Multiâ€Copper Nitrite Reductase Determined by Pulsed EPR (<i>i</i>DEER) Spectroscopy. Angewandte Chemie - International Edition, 2013, 52, 1990-1993.	13.8	27
16	Variations in methanobactin structure influences copper utilization by methane-oxidizing bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8400-8404.	7.1	81
17	The influence of active site loop mutations on the thermal stability of azurin from Pseudomonas aeruginosa. Archives of Biochemistry and Biophysics, 2012, 521, 18-23.	3.0	4
18	Cu(I) Affinities of the Domain 1 and 3 Sites in the Human Metallochaperone for Cu,Zn-Superoxide Dismutase. Biochemistry, 2012, 51, 1439-1448.	2.5	34

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19	Understanding the Mechanism of Short-Range Electron Transfer Using an Immobilized Cupredoxin. Journal of the American Chemical Society, 2012, 134, 11848-11851.	13.7	34
20	Copper-Binding Properties and Structures of Methanobactins from Methylosinus trichosporium OB3b. Inorganic Chemistry, 2011, 50, 1378-1391.	4.0	76
21	Metal-Binding Loop Length Is a Determinant of the p<i>K</i>_a of a Histidine Ligand at a Type 1 Copper Site. Inorganic Chemistry, 2011, 50, 482-488.	4.0	13
22	Copper Trafficking Mechanism of CXXC-Containing Domains: Insight from the pH-Dependence of Their Cu(I) Affinities. Journal of the American Chemical Society, 2011, 133, 2983-2988.	13.7	96
23	Fluorescence Lifetime Analysis of Nitrite Reductase from <i>Alcaligenesâ€…xylosoxidans</i> at the Singleâ€Molecule Level Reveals the Enzyme Mechanism. Chemistry - A European Journal, 2011, 17, 12015-12019.	3.3	22
24	Redox cycling and kinetic analysis of single molecules of solution-phase nitrite reductase. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17269-17274.	7.1	53
25	Thermodynamics of copper and zinc distribution in the cyanobacterium <i>Synechocystis</i> PCC 6803. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13007-13012.	7.1	51
26	Visualizing the Metal-Binding Versatility of Copper Trafficking Sites,. Biochemistry, 2010, 49, 7798-7810.	2.5	27
27	Factors Affecting the Electron Transfer Properties of an Immobilized Cupredoxin. Journal of Physical Chemistry C, 2010, 114, 22322-22329.	3.1	19
28	Can soaked-in scavengers protect metalloprotein active sites from reduction during data collection?. Journal of Synchrotron Radiation, 2009, 16, 191-204.	2.4	61
29	Active site loop dictates the thermodynamics of reduction and ligand protonation in cupredoxins. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 995-1000.	2.3	8
30	Metal-binding loop length and not sequence dictates structure. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5616-5621.	7.1	22
31	The Importance of the Long Typeâ€…1 Copperâ€Binding Loop of Nitrite Reductase for Structure and Function. Chemistry - A European Journal, 2008, 14, 5820-5828.	3.3	7
32	Thermal unfolding studies of a phytocyanin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 1997-2003.	2.3	9
33	Protein-folding location can regulate manganese-binding versus copper- or zinc-binding. Nature, 2008, 455, 1138-1142.	27.8	281
34	Ï€-Interaction Tuning of the Active Site Properties of Metalloproteins. Journal of the American Chemical Society, 2008, 130, 15420-15428.	13.7	35
35	The role of ligand-containing loops at copper sites in proteins. Natural Product Reports, 2008, 25, 15-24.	10.3	24
36	Regulation of Protein Function: Crystal Packing Interfaces and Conformational Dimerization. Biochemistry, 2008, 47, 6583-6589.	2.5	20

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37	FutA2 Is a Ferric Binding Protein from Synechocystis PCC 6803. Journal of Biological Chemistry, 2008, 283, 12520-12527.	3.4	56
38	NMR Structural Analysis of Cadmium Sensing by Winged Helix Repressor CmtR. Journal of Biological Chemistry, 2007, 282, 30181-30188.	3.4	41
39	A Periplasmic Iron-binding Protein Contributes toward Inward Copper Supply. Journal of Biological Chemistry, 2007, 282, 3837-3846.	3.4	46
40	Engineering Copper Sites in Proteins:Â Loops Confer Native Structures and Properties to Chimeric Cupredoxins. Journal of the American Chemical Society, 2007, 129, 709-718.	13.7	45
41	Influence of Loop Shortening on the Metal Binding Site of Cupredoxin Pseudoazurin[,]. Biochemistry, 2007, 46, 9981-9991.	2.5	18
42	Transient Protein Interactions between Cytochromef and the Phytocyanin Umecyanin. ChemBioChem, 2007, 8, 732-735.	2.6	2
43	Thermodynamics of the alkaline transition in phytocyanins. Journal of Biological Inorganic Chemistry, 2007, 12, 895-900.	2.6	7
44	The Role of Hydrogen Bonding at the Active Site of a Cupredoxin:â€‰ The Phe114Pro Azurin Variant,. Biochemistry, 2006, 45, 8812-8822.	2.5	78
45	Ultrafast Pumpâ˜'Probe Study of Excited-State Charge-Transfer Dynamics in Umecyanin from Horseradish Root. Journal of Physical Chemistry B, 2006, 110, 17252-17259.	2.6	26
46	Active Site Comparison of CoII Blue and Green Nitrite Reductases. Chemistry - A European Journal, 2006, 12, 6647-6659.	3.3	11
47	Basic requirements for a metal-binding site in a protein: The influence of loop shortening on the cupredoxin azurin. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7258-7263.	7.1	40
48	Investigating the structure and function of cupredoxins. Coordination Chemistry Reviews, 2005, 249, 3025-3054.	18.8	146
49	Transient Homodimer Interactions Studied Using the Electron Self-exchange Reaction. Journal of Biological Chemistry, 2005, 280, 19281-19288.	3.4	14
50	BACE1 Cytoplasmic Domain Interacts with the Copper Chaperone for Superoxide Dismutase-1 and Binds Copper. Journal of Biological Chemistry, 2005, 280, 17930-17937.	3.4	111
51	Optical Spectroscopic Investigation of the Alkaline Transition in Umecyanin from Horseradish Rootâ€. Biochemistry, 2005, 44, 16090-16097.	2.5	14
52	Investigating the Cause of the Alkaline Transition of Phytocyaninsâ€. Biochemistry, 2005, 44, 3056-3064.	2.5	14
53	Crystal Structures of Oxidized and Reduced Stellacyanin from Horseradish Rootsâ€. Journal of the American Chemical Society, 2005, 127, 158-166.	13.7	51
54	Ligand and loop variations at type 1 copper sites: influence on structure and reactivity. Dalton Transactions, 2005, , 3436.	3.3	21

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55	Reduction Potential Tuning at a Type 1 Copper Site Does Not Compromise Electron Transfer Reactivity. Journal of the American Chemical Society, 2005, 127, 16453-16459.	13.7	27
56	Loop-Contraction Mutagenesis of Type 1 Copper Sites. Journal of the American Chemical Society, 2004, 126, 15711-15719.	13.7	35
57	Characterization of Arabidopsis thaliana stellacyanin: A comparison with umecyanin. Proteins: Structure, Function and Bioinformatics, 2004, 55, 426-435.	2.6	11
58	An Axial Met Ligand at a Type 1 Copper Site is Preferable for Fast Electron Transfer. ChemBioChem, 2004, 5, 1579-1581.	2.6	15
59	Paramagnetic1H NMR Spectrum of the Cobalt(II) Derivative of Spinach Plastocyanin. Inorganic Chemistry, 2004, 43, 1502-1510.	4.0	13
60	The Active-Site Structure of Umecyanin, the Stellacyanin from Horseradish Roots. Journal of the American Chemical Society, 2004, 126, 2481-2489.	13.7	23
61	Pseudospecificity of the Acidic Patch of Plastocyanin for the Interaction with Cytochrome f. Journal of the American Chemical Society, 2004, 126, 3028-3029.	13.7	14
62	The parsley plastocyanin-turnip cytochrome f complex: a structurally distorted but kinetically functional acidic patch. Biochemical Journal, 2004, 378, 45-51.	3.7	24
63	Loop-Contraction Mutagenesis of a Type 1 Copper Site. Journal of the American Chemical Society, 2003, 125, 4974-4975.	13.7	20
64	Introduction of a Ï€â^'Ï€ Interaction at the Active Site of a Cupredoxin:Â Characterization of the Met16Phe Pseudoazurin Mutantâ€. Biochemistry, 2003, 42, 6853-6862.	2.5	36
65	Active-Site Structure and Electron-Transfer Reactivity of Plastocyanins. Journal of the American Chemical Society, 2003, 125, 2101-2112.	13.7	60
66	Alkaline transition of phytocyanins: a comparison of stellacyanin and umecyanin. Biochemical Journal, 2003, 371, 377-383.	3.7	19
67	Paramagnetic1H NMR Spectrum of Nickel(II) Pseudoazurin:Â Investigation of the Active Site Structure and the Acid and Alkaline Transitionsâ€. Inorganic Chemistry, 2002, 41, 6662-6672.	4.0	13
68	Effect of Histidine 6 Protonation on the Active Site Structure and Electron-Transfer Capabilities of Pseudoazurin fromAchromobacter cycloclastesâ€. Biochemistry, 2002, 41, 120-130.	2.5	31
69	Unusual Properties of Plastocyanin from the Fern Dryopteris crassirhizoma. Biochemistry, 2002, 41, 552-560.	2.5	33
70	UV resonance Raman and NMR spectroscopic studies on the pH dependent metal ion release from pseudoazurin. Inorganica Chimica Acta, 2002, 339, 383-392.	2.4	2
71	Effect of pH on the Self-Exchange Reactivity of the Plant Plastocyanin from Parsley. Inorganic Chemistry, 2001, 40, 354-360.	4.0	24
72	Investigations of the Alkaline and Acid Transitions of Umecyanin, a Stellacyanin from Horseradish Roots. Biochemistry, 2001, 40, 3158-3166.	2.5	35

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73	Paramagnetic NMR studies of copper-containing nitrite reductases. Chemical Communications, 2000, , 751-752.	4.1	4
74	Loop-Directed Mutagenesis of the Blue Copper Protein Amicyanin fromParacoccus versutusand Its Effect on the Structure and the Activity of the Type-1 Copper Site. Journal of the American Chemical Society, 2000, 122, 204-211.	13.7	83
75	The Met99Gln Mutant of Amicyanin fromParacoccusversutusâ€. Biochemistry, 2000, 39, 9551-9560.	2.5	46
76	Alkaline Transition of Pseudoazurin fromAchromobacter cycloclastesStudied by Paramagnetic NMR and Its Effect on Electron Transfer. Inorganic Chemistry, 1999, 38, 1491-1497.	4.0	24
77	Electron Transfer in Ruthenium-Modified Plastocyanin. Journal of the American Chemical Society, 1998, 120, 7551-7556.	13.7	72
78	A1H NMR Study of the Paramagnetic Active Site of the CuAVariant of Amicyaninâ€. Biochemistry, 1997, 36, 3262-3269.	2.5	47
79	1H NMR studies of the paramagnetic CuAcenter of cytochrome oxidase. FEBS Letters, 1996, 394, 340-344.	2.8	33
80	Analysis of the Paramagnetic Copper(II) Site of Amicyanin by1H NMR Spectroscopyâ€. Biochemistry, 1996, 35, 3085-3092.	2.5	77
81	Loop-Directed Mutagenesis Converts Amicyanin fromThiobacillus versutusinto a Novel Blue Copper Protein. Journal of the American Chemical Society, 1996, 118, 7406-7407.	13.7	57
82	Electronâ€Transfer Properties and Activeâ€Site Structure of the Type 1 (Blue) Copper Protein Umecyanin. Chemistry - A European Journal, 1996, 2, 104-109.	3.3	22
83	The Cu_A site of cytochrome <i>c</i> oxidase. Recueil Des Travaux Chimiques Des Pays-Bas, 1996, 115, 345-351.	0.0	11
84	Spectroscopic and Electrochemical Studies on Active-site Transitions of the Type 1 Copper Protein Pseudoazurin from Achromobacter cycloclastes. Journal of Biological Chemistry, 1995, 270, 25733-25738.	3.4	79
85	Engineered Cupredoxins and Bacterial Cytochrome c Oxidases Have Similar CuA Sites: Evidence from Resonance Raman Spectroscopy. Journal of the American Chemical Society, 1995, 117, 10759-10760.	13.7	34
86	Determination of the Self-Exchange Rate Constant for Rusticyanin from Thiobacillus ferrooxidans and a Comparison with Values for Other Type 1 Blue Copper Proteins. Inorganic Chemistry, 1995, 34, 5370-5374.	4.0	47
87	Introduction of a CuAsite into the blue copper protein amicyanin fromThiobacillus versutus. FEBS Letters, 1995, 365, 92-94.	2.8	90
88	Type 1 blue copper protein amicyanin from Thiobacillus versutus: line-broadening effects of chromium(III) complexes and related studies. Journal of the Chemical Society Dalton Transactions, 1995, , 3395.	1.1	5
89	Heterogeneity of the covalent structure of the blue copper protein umecyanin from horseradish roots. Protein Science, 1995, 4, 209-227.	7.6	30
90	Reversible active site protonation and electron-transfer properties of Achromobacter cycloclastes pseudoazurin: comparisons with other type 1 copper proteins. Journal of the Chemical Society Chemical Communications, 1994, , 581.	2.0	18

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91	Redox reactivity of the type 1 (blue) copper protein amicyanin from Thiobacillus versutus with inorganic complexes. Journal of the Chemical Society Dalton Transactions, 1994, , 3017.	1.1	6
92	Proton nuclear magnetic resonance assignments and the electron self-exchange rate constant for pseudoazurin from Achromobacter cycloclastes. Journal of the Chemical Society Dalton Transactions, 1994, , 437.	1.1	9
93	Reactivity of Pseudoazurin from Achromobacter cycloclastes with Inorganic Redox Partners and Related NMR and Electrochemical Studies. Inorganic Chemistry, 1994, 33, 3299-3305.	4.0	50
94	Reactions of five spinach plastocyanin PCu(I) mutants with [Fe(CN)6]3â€"and [Co(phen)3]3+(phen =) Tj ETQq0 0 0 rgBT /Overlock 10 T 2289-2296.	1.1	7
95	Determination of the self-exchange rate constant for plastocyanin from Anabaena variabilis by nuclear magnetic resonance line broadening. Journal of the Chemical Society Dalton Transactions, 1993, , 1959.	1.1	13