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	Protein-folding location can regulate manganese-binding versus copper- or zinc-binding. Nature, 2008, 455, 1138-1142.	27.8	281
2	Investigating the structure and function of cupredoxins. Coordination Chemistry Reviews, 2005, 249, 3025-3054.	18.8	146
3	Methanobactin and the Link between Copper and Bacterial Methane Oxidation. Microbiology and Molecular Biology Reviews, 2016, 80, 387-409.	6.6	118
4	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
5	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
6	Introduction of a CuAsite into the blue copper protein amicyanin fromThiobacillus versutus. FEBS Letters, 1995, 365, 92-94.	2.8	90
7	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
8	A four-helix bundle stores copper for methane oxidation. Nature, 2015, 525, 140-143.	27.8	83
9	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
10	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
11	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
12	Analysis of the Paramagnetic Copper(II) Site of Amicyanin by1H NMR Spectroscopyâ€. Biochemistry, 1996, 35, 3085-3092.	2.5	77
13	Copper-Binding Properties and Structures of Methanobactins from Methylosinus trichosporium OB3b. Inorganic Chemistry, 2011, 50, 1378-1391.	4.0	76
14	Electron Transfer in Ruthenium-Modified Plastocyanin. Journal of the American Chemical Society, 1998, 120, 7551-7556.	13.7	72
15	Can soaked-in scavengers protect metalloprotein active sites from reduction during data collection?. Journal of Synchrotron Radiation, 2009, 16, 191-204.	2.4	61
16	Active-Site Structure and Electron-Transfer Reactivity of Plastocyanins. Journal of the American Chemical Society, 2003, 125, 2101-2112.	13.7	60
17	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
18	FutA2 Is a Ferric Binding Protein from Synechocystis PCC 6803. Journal of Biological Chemistry, 2008, 283, 12520-12527.	3.4	56

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19	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
20	Bacterial cytosolic proteins with a high capacity for Cu(I) that protect against copper toxicity. Scientific Reports, 2016, 6, 39065.	3.3	52
21	Crystal Structures of Oxidized and Reduced Stellacyanin from Horseradish Rootsâ€. Journal of the American Chemical Society, 2005, 127, 158-166.	13.7	51
22	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
23	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
24	Bacterial copper storage proteins. Journal of Biological Chemistry, 2018, 293, 4616-4627.	3.4	48
25	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
26	A1H NMR Study of the Paramagnetic Active Site of the CuAVariant of Amicyaninâ€. Biochemistry, 1997, 36, 3262-3269.	2.5	47
27	The Met99Gln Mutant of Amicyanin fromParacoccusversutusâ€. Biochemistry, 2000, 39, 9551-9560.	2.5	46
28	A Periplasmic Iron-binding Protein Contributes toward Inward Copper Supply. Journal of Biological Chemistry, 2007, 282, 3837-3846.	3.4	46
29	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
30	NMR Structural Analysis of Cadmium Sensing by Winged Helix Repressor CmtR. Journal of Biological Chemistry, 2007, 282, 30181-30188.	3.4	41
31	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
32	Introduction of a Ï€âˆ'Ï€ Interaction at the Active Site of a Cupredoxin:Â Characterization of the Met16Phe Pseudoazurin Mutantâ€. Biochemistry, 2003, 42, 6853-6862.	2.5	36
33	Investigations of the Alkaline and Acid Transitions of Umecyanin, a Stellacyanin from Horseradish Roots. Biochemistry, 2001, 40, 3158-3166.	2.5	35
34	Loop-Contraction Mutagenesis of Type 1 Copper Sites. Journal of the American Chemical Society, 2004, 126, 15711-15719.	13.7	35
35	Ï€-Interaction Tuning of the Active Site Properties of Metalloproteins. Journal of the American Chemical Society, 2008, 130, 15420-15428.	13.7	35
36	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

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37	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
38	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
39	1H NMR studies of the paramagnetic CuAcenter of cytochrome oxidase. FEBS Letters, 1996, 394, 340-344.	2.8	33
40	Unusual Properties of Plastocyanin from the Fern Dryopteris crassirhizoma. Biochemistry, 2002, 41, 552-560.	2.5	33
41	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
42	Heterogeneity of the covalent structure of the blue copper protein umecyanin from horseradish roots. Protein Science, 1995, 4, 209-227.	7.6	30
43	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
44	Visualizing the Metal-Binding Versatility of Copper Trafficking Sites,. Biochemistry, 2010, 49, 7798-7810.	2.5	27
45	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
46	Ultrafast Pumpâˆ'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
47	Alkaline Transition of Pseudoazurin fromAchromobacter cycloclastesStudied by Paramagnetic NMR and Its Effect on Electron Transfer. Inorganic Chemistry, 1999, 38, 1491-1497.	4.0	24
48	Effect of pH on the Self-Exchange Reactivity of the Plant Plastocyanin from Parsley. Inorganic Chemistry, 2001, 40, 354-360.	4.0	24
49	The parsley plastocyanin-turnip cytochrome f complex: a structurally distorted but kinetically functional acidic patch. Biochemical Journal, 2004, 378, 45-51.	3.7	24
50	The role of ligand-containing loops at copper sites in proteins. Natural Product Reports, 2008, 25, 15-24.	10.3	24
51	The Active-Site Structure of Umecyanin, the Stellacyanin from Horseradish Roots. Journal of the American Chemical Society, 2004, 126, 2481-2489.	13.7	23
52	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
53	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
54	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

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55	Ligand and loop variations at type 1 copper sites: influence on structure and reactivity. Dalton Transactions, 2005, , 3436.	3.3	21
56	Loop-Contraction Mutagenesis of a Type 1 Copper Site. Journal of the American Chemical Society, 2003, 125, 4974-4975.	13.7	20
57	Regulation of Protein Function: Crystal Packing Interfaces and Conformational Dimerization. Biochemistry, 2008, 47, 6583-6589.	2.5	20
58	Alkaline transition of phytocyanins: a comparison of stellacyanin and umecyanin. Biochemical Journal, 2003, 371, 377-383.	3.7	19
59	Factors Affecting the Electron Transfer Properties of an Immobilized Cupredoxin. Journal of Physical Chemistry C, 2010, 114, 22322-22329.	3.1	19
60	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
61	Influence of Loop Shortening on the Metal Binding Site of Cupredoxin Pseudoazurin[,]. Biochemistry, 2007, 46, 9981-9991.	2.5	18
62	Crosstalk between Cu(i) and Zn(ii) homeostasis via Atx1 and cognate domains. Chemical Communications, 2013, 49, 8000.	4.1	16
63	Visualizing Biological Copper Storage: The Importance of Thiolateâ€Coordinated Tetranuclear Clusters. Angewandte Chemie - International Edition, 2017, 56, 8697-8700.	13.8	16
64	Insight into Metal Removal from Peptides that Sequester Copper for Methane Oxidation. Chemistry - A European Journal, 2018, 24, 4515-4518.	3.3	16
65	An Axial Met Ligand at a Type 1 Copper Site is Preferable for Fast Electron Transfer. ChemBioChem, 2004, 5, 1579-1581.	2.6	15
66	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
67	Transient Homodimer Interactions Studied Using the Electron Self-exchange Reaction. Journal of Biological Chemistry, 2005, 280, 19281-19288.	3.4	14
68	Optical Spectroscopic Investigation of the Alkaline Transition in Umecyanin from Horseradish Rootâ€. Biochemistry, 2005, 44, 16090-16097.	2.5	14
69	Investigating the Cause of the Alkaline Transition of Phytocyaninsâ€. Biochemistry, 2005, 44, 3056-3064.	2.5	14
70	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
71	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
72	Paramagnetic1H NMR Spectrum of the Cobalt(II) Derivative of Spinach Plastocyanin. Inorganic Chemistry, 2004, 43, 1502-1510.	4.0	13

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73	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
74	Characterization of Arabidopsis thaliana stellacyanin: A comparison with umecyanin. Proteins: Structure, Function and Bioinformatics, 2004, 55, 426-435.	2.6	11
75	Active Site Comparison of CoII Blue and Green Nitrite Reductases. Chemistry - A European Journal, 2006, 12, 6647-6659.	3.3	11
76	The Cu_A site of cytochrome <i>c</i> oxidase. Recueil Des Travaux Chimiques Des Pays-Bas, 1996, 115, 345-351.	0.0	11
77	The Coordination Chemistry of Copper Uptake and Storage for Methane Oxidation. Chemistry - A European Journal, 2019, 25, 74-86.	3.3	10
78	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
79	Thermal unfolding studies of a phytocyanin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 1997-2003.	2.3	9
80	The influence of protein folding on the copper affinities of trafficking and target sites. Dalton Transactions, 2013, 42, 3233-3239.	3.3	9
81	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
82	Cytosolic Copper Binding by a Bacterial Storage Protein and Interplay with Copper Efflux. International Journal of Molecular Sciences, 2019, 20, 4144.	4.1	8
83	Reactions of five spinach plastocyanin PCu(I) mutants with [Fe(CN)6]3â€"and [Co(phen)3]3+(phen =) Tj ETQq1 1 0.784314 rgBT /Ov 2289-2296.	1.1	7
84	Thermodynamics of the alkaline transition in phytocyanins. Journal of Biological Inorganic Chemistry, 2007, 12, 895-900.	2.6	7
85	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
86	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
87	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
88	How the Dynamics of the Metal-Binding Loop Region Controls the Acid Transition in Cupredoxins. Biochemistry, 2013, 52, 7397-7404.	2.5	5
89	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
90	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

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91	Paramagnetic NMR studies of copper-containing nitrite reductases. Chemical Communications, 2000, , 751-752.	4.1	4
92	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
93	Visualizing Biological Copper Storage: The Importance of Thiolateâ€Coordinated Tetranuclear Clusters. Angewandte Chemie, 2017, 129, 8823-8826.	2.0	3
94	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
95	Transient Protein Interactions between Cytochromef and the Phytocyanin Umecyanin. ChemBioChem, 2007, 8, 732-735.	2.6	2