Deborah B Zamble

List of Publications by Year
in descending order

67 papers	4,041 citations	117453 34 h-index	118652 62 g-index
77 all docs	77 docs citations	77 times ranked	3158 citing authors

#	Article	IF	Citations
1	Allosteric regulation of the nickel-responsive NikR transcription factor from Helicobacter pylori. Journal of Biological Chemistry, 2021, 296, 100069.	1.6	7
2	A novel mode of control of nickel uptake by a multifunctional metallochaperone. PLoS Pathogens, 2021, 17, e1009193.	2.1	13
3	Allosteric control of metal-responsive transcriptional regulators in bacteria. Journal of Biological Chemistry, 2020, 295, 1673-1684.	1.6	26
4	The impact of a His-tag on DNA binding by RNA polymerase alpha-C-terminal domain from Helicobacter pylori. Protein Expression and Purification, 2020, 167, 105541.	0.6	13
5	Bimodal Nickel-Binding Site on <i>Escherichia coli</i> [NiFe]-Hydrogenase Metallochaperone HypA. Inorganic Chemistry, 2019, 58, 13604-13618.	1.9	8
6	A whole-cell, high-throughput hydrogenase assay to identify factors that modulate [NiFe]-hydrogenase activity. Journal of Biological Chemistry, 2019, 294, 15373-15385.	1.6	11
7	Complex formation between the Escherichia coli [NiFe]-hydrogenase nickel maturation factors. BioMetals, 2019, 32, 521-532.	1.8	8
8	Acid-responsive activity of the <i>Helicobacter pylori</i> metalloregulator NikR. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8966-8971.	3.3	34
9	Microbial nickel: cellular uptake and delivery to enzyme centers. Current Opinion in Chemical Biology, 2017, 37, 80-88.	2.8	43
10	High-affinity metal binding by the Escherichia coli [NiFe]-hydrogenase accessory protein HypB is selectively modulated by SlyD. Metallomics, 2017, 9, 482-493.	1.0	13
11	[NiFe]-Hydrogenase Maturation. Biochemistry, 2016, 55, 1689-1701.	1.2	101
12	Mechanism of Selective Nickel Transfer from HypB to HypA, <i>Escherichia coli</i> [NiFe]-Hydrogenase Accessory Proteins. Biochemistry, 2016, 55, 6821-6831.	1.2	42
13	Nickel-responsive regulation of two novelHelicobacter pyloriNikR-targeted genes. Metallomics, 2015, 7, 662-673.	1.0	22
14	It costs more than a nickel. Science, 2015, 349, 35-36.	6.0	5
15	Nickel in Biology. Metallomics, 2015, 7, 588-589.	1.0	10
16	Relationship between Ni(II) and Zn(II) Coordination and Nucleotide Binding by the Helicobacter pylori [NiFe]-Hydrogenase and Urease Maturation Factor HypB. Journal of Biological Chemistry, 2014, 289, 3828-3841.	1.6	51
17	Nickel Metallomics: General Themes Guiding Nickel Homeostasis. Metal Ions in Life Sciences, 2013, 12, 375-416.	2.8	37
18	Metal Binding Properties of <i>Escherichia coli</i> YjiA, a Member of the Metal Homeostasis-Associated COG0523 Family of GTPases. Biochemistry, 2013, 52, 1788-1801.	1.2	43

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19	Metal Transfer within the <i>Escherichia coli</i> HypBâ€"HypA Complex of Hydrogenase Accessory Proteins. Biochemistry, 2013, 52, 6030-6039.	1.2	39
20	The metal selectivity of a short peptide maquette imitating the high-affinity metal-binding site of E. coli HypB. Dalton Transactions, 2012, 41, 7876.	1.6	19
21	Nonspecific Interactions Between <i>Escherichia coli</i> NikR and DNA Are Critical for Nickel-Activated DNA Binding. Biochemistry, 2012, 51, 7873-7879.	1.2	10
22	Nickel Binding and [NiFe]-Hydrogenase Maturation by the Metallochaperone SlyD with a Single Metal-Binding Site in Escherichia coli. Journal of Molecular Biology, 2012, 417, 28-35.	2.0	27
23	YeiR: a metal-binding GTPase from Escherichia coli involved in metal homeostasis. Metallomics, 2012, 4, 488.	1.0	49
24	<i>Escherichia coli</i> SlyD, More Than a Ni(II) Reservoir. Biochemistry, 2011, 50, 10761-10763.	1.2	43
25	Metal Selectivity of the <i>Escherichia coli</i> Nickel Metallochaperone, SlyD. Biochemistry, 2011, 50, 10666-10677.	1.2	18
26	The<i>Escherichia coli</i>metal-binding chaperone SlyD interacts with the large subunit of [NiFe]-hydrogenase 3. FEBS Letters, 2011, 585, 291-294.	1.3	29
27	Relationship between the GTPase, metal-binding, and dimerization activities of E. coli HypB. Journal of Biological Inorganic Chemistry, 2011, 16, 857-868.	1.1	29
28	Effects of Metal on the Biochemical Properties of <i>Helicobacter pylori</i> HypB, a Maturation Factor of [NiFe]-Hydrogenase and Urease. Journal of Bacteriology, 2011, 193, 1359-1368.	1.0	33
29	Protein Interactions and Localization of the Escherichia coli Accessory Protein HypA during Nickel Insertion to [NiFe] Hydrogenase. Journal of Biological Chemistry, 2011, 286, 43081-43090.	1.6	39
30	The Response of <i>Escherichia coli</i> NikR to Nickel: A Second Nickel-Binding Site. Biochemistry, 2010, 49, 6635-6645.	1.2	11
31	Potassium Is Critical for the Ni(II)-Responsive DNA-Binding Activity of Escherichia coli NikR. Journal of the American Chemical Society, 2010, 132, 1506-1507.	6.6	14
32	Microbial nickel proteins. Natural Product Reports, 2010, 27, 681.	5.2	91
33	Nickel Homeostasis and Nickel Regulation: An Overview. Chemical Reviews, 2009, 109, 4617-4643.	23.0	187
34	pH-Responsive DNA-Binding Activity of Helicobacter pylori NikR. Biochemistry, 2009, 48, 2486-2496.	1.2	32
35	The Ni(II)-Binding Properties of the Metallochaperone SlyD. Journal of the American Chemical Society, 2009, 131, 18489-18500.	6.6	39
36	The â€œmetallo-specificâ€•response of proteins: A perspective based on the Escherichia coli transcriptional regulator NikR. Dalton Transactions, 2009, , 2459.	1.6	26

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37	Structural Basis of the Metal Specificity for Nickel Regulatory Protein NikR,. Biochemistry, 2008, 47, 1938-1946.	1.2	54
38	A High-Affinity Metal-Binding Peptide from <i>Escherichia coli</i> HypB. Journal of the American Chemical Society, 2008, 130, 14056-14057.	6.6	37
39	Structural and Biological Analysis of the Metal Sites of <i>Escherichia coli</i> Hydrogenase Accessory Protein HypB. Biochemistry, 2008, 47, 11981-11991.	1.2	45
40	High Throughput Methods for Analyzing Transition Metals in Proteins on a Microgram ScaleHigh Throughput Methods for Analyzing Transition Metals in Proteins on a Microgram Scale. Methods in Molecular Biology, 2008, 426, 319-330.	0.4	4
41	The Peptidyl-Prolyl Isomerase Activity of SlyD Is Not Required for Maturation of Escherichia coli Hydrogenase. Journal of Bacteriology, 2007, 189, 7942-7944.	1.0	27
42	The Role of Complex Formation between the Escherichia coli Hydrogenase Accessory Factors HypB and SlyD. Journal of Biological Chemistry, 2007, 282, 16177-16186.	1.6	71
43	Microbial Physiology of Nickel and Cobalt. , 2007, , 287-320.		13
44	Metallocenter assembly of the hydrogenase enzymes. Current Opinion in Chemical Biology, 2007, 11, 159-165.	2.8	94
45	Interactions of theEscherichia colihydrogenase biosynthetic proteins: HybG complex formation. FEBS Letters, 2006, 580, 677-681.	1.3	30
46	The Response of Cellular Proteins to Cisplatin-Damaged DNA. , 2006, , 71-110.		9
47	The metal- and DNA-binding activities of Helicobacter pylori NikR. Journal of Inorganic Biochemistry, 2006, 100, 1005-1014.	1.5	59
48	Fluorescence analysis of sulfonamide binding to carbonic anhydrase. Biochemistry and Molecular Biology Education, 2006, 34, 364-368.	0.5	13
49	NikR-operator complex structure and the mechanism of repressor activation by metal ions. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13676-13681.	3.3	117
50	Protease digestion analysis of Escherichia coli NikR: evidence for conformational stabilization with Ni(II). Journal of Biological Inorganic Chemistry, 2005, 10, 605-612.	1.1	24
51	A Role for SlyD in the Escherichia coli Hydrogenase Biosynthetic Pathway. Journal of Biological Chemistry, 2005, 280, 4360-4366.	1.6	116
52	Escherichia coli HypA Is a Zinc Metalloprotein with a Weak Affinity for Nickel. Journal of Bacteriology, 2005, 187, 4689-4697.	1.0	71
53	A High Throughput Method for the Detection of Metalloproteins on a Microgram Scale. Molecular and Cellular Proteomics, 2005, 4, 827-834.	2.5	33
54	Analyzing the 3D Structure of Human Carbonic Anhydrase II and Its Mutants Using Deep View and the Protein Data Bank. Journal of Chemical Education, 2005, 82, 1805.	1.1	12

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55	Metal Binding Activity of the Escherichia coli Hydrogenase Maturation Factor HypB. Biochemistry, 2005, 44, 12229-12238.	1.2	75
56	A high-performance liquid chromatography method for determining transition metal content in proteins. Analytical Biochemistry, 2004, 335, 103-111.	1.1	34
57	Selectivity of Metal Binding and Metal-Induced Stability ofEscherichia coliNikRâ€. Biochemistry, 2004, 43, 10018-10028.	1.2	88
58	Metal-Selective DNA-Binding Response ofEscherichia coliNikRâ€. Biochemistry, 2004, 43, 10029-10038.	1.2	77
59	Testis-specific HMG-domain protein alters the responses of cells to cisplatin. Journal of Inorganic Biochemistry, 2002, 91, 451-462.	1.5	79
60	The antibiotic microcin B17 is a DNA gyrase poison: characterisation of the mode of inhibition11Edited by J. Karn. Journal of Molecular Biology, 2001, 307, 1223-1234.	2.0	135
61	The McbB Component of Microcin B17 Synthetase Is a Zinc Metalloproteinâ€. Biochemistry, 2000, 39, 16190-16199.	1.2	27
62	Human Testis-Determining Factor SRY Binds to the Major DNA Adduct of Cisplatin and a Putative Target Sequence with Comparable Affinitiesâ€. Biochemistry, 1998, 37, 352-362.	1.2	89
63	p53-dependent and -independent responses to cisplatin in mouse testicular teratocarcinoma cells. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 6163-6168.	3.3	134
64	Repair of Cisplatinâ^'DNA Adducts by the Mammalian Excision Nucleaseâ€. Biochemistry, 1996, 35, 10004-10013.	1.2	316
65	Cisplatin and DNA repair in cancer chemotherapy. Trends in Biochemical Sciences, 1995, 20, 435-439.	3.7	458
66	HMG-domain proteins specifically inhibit the repair of the major DNA adduct of the anticancer drug cisplatin by human excision nuclease.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 10394-10398.	3.3	325
67	The polymerization behavior of [1]- and [2]ferrocenophanes containing silicon atoms in the bridge: comparison of the molecular structure of the strained, polymerizable cyclic ferrocenylsilane Fe(.eta.-C5H4)2(SiMe2) with that of the cyclic ferrocenyldisilane Fe(.eta.-C5H4)2(SiMe2)2. Organometallics, 1993, 12, 823-829.	1.1	153