David P Giedroc

List of Publications by Year
in descending order

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188 papers	10,732 citations	28242 55 h-index	48277 88 g-index
206 all docs	206 docs citations	206 times ranked	8170 citing authors

#	Article	IF	Citations
1	Bacterial hydrophilins promote pathogen desiccation tolerance. Cell Host and Microbe, 2022, 30, 975-987.e7.	5.1	13
2	Zn-regulated GTPase metalloprotein activator 1 modulates vertebrate zinc homeostasis. Cell, 2022, 185, 2148-2163.e27.	13.5	39
3	Protocol for using organic persulfides to measure the chemical reactivity of persulfide sensors. STAR Protocols, 2022, 3, 101424.	0.5	6
4	SifR is an Rrf2-family quinone sensor associated with catechol iron uptake in Streptococcus pneumoniae D39. Journal of Biological Chemistry, 2022, , 102046.	1.6	9
5	Structural basis for persulfide-sensing specificity in a transcriptional regulator. Nature Chemical Biology, 2021, 17, 65-70.	3.9	24
6	Molecular Evolution of Transition Metal Bioavailability at the Hostâ€“Pathogen Interface. Trends in Microbiology, 2021, 29, 441-457.	3.5	32
7	Proteomics Profiling of S-sulfurated Proteins in Acinetobacter baumannii. Bio-protocol, 2021, 11, e4000.	0.2	3
8	Metal Ion Homeostasis. , 2021, , 929-953.		1
9	COG0523 proteins: a functionally diverse family of transition metal-regulated G3E P-loop GTP hydrolases from bacteria to man. Metallomics, 2021, 13, .	1.0	15
10	Functional asymmetry and chemical reactivity of CsoR family persulfide sensors. Nucleic Acids Research, 2021, 49, 12556-12576.	6.5	13
11	Staphylococcus aureus Glucose-Induced Biofilm Accessory Protein A (GbaA) Is a Monothiol-Dependent Electrophile Sensor. Biochemistry, 2020, 59, 2882-2895.	1.2	11
12	H2S and reactive sulfur signaling at the host-bacterial pathogen interface. Journal of Biological Chemistry, 2020, 295, 13150-13168.	1.6	43
13	The Pneumococcal Iron Uptake Protein A (PiuA) Specifically Recognizes Tetradentate FeIIIbis- and Mono-Catechol Complexes. Journal of Molecular Biology, 2020, 432, 5390-5410.	2.0	13
14	1H, 13C, 15N backbone resonance assignments of the apo and holo forms of the ABC transporter solute binding protein PiuA from Streptococcus pneumoniae. Biomolecular NMR Assignments, 2020, 14, 233-238.	0.4	2
15	Clostridioides difficile Senses and Hijacks Host Heme for Incorporation into an Oxidative Stress Defense System. Cell Host and Microbe, 2020, 28, 411-421.e6.	5.1	36
16	Iron Acquisition by Bacterial Pathogens: Beyond Trisâ€Catecholate Complexes. ChemBioChem, 2020, 21, 1955-1967.	1.3	17
17	The Response of Acinetobacter baumannii to Hydrogen Sulfide Reveals Two Independent Persulfide-Sensing Systems and a Connection to Biofilm Regulation. MBio, 2020, 11, .	1.8	33
18	Cell-free biosensors for rapid detection of water contaminants. Nature Biotechnology, 2020, 38, 1451-1459.	9.4	221

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19	Multi-metal nutrient restriction and crosstalk in metallostasis systems in microbial pathogens. Current Opinion in Microbiology, 2020, 55, 17-25.	2.3	26
20	Hydrogen Sulfide Signaling and Enzymology. , 2020, , 430-473.		2
21	Structure of the Large Extracellular Loop of FtsX and Its Interaction with the Essential Peptidoglycan Hydrolase PcsB in Streptococcus pneumoniae. MBio, 2019, 10, .	1.8	35
22	Mechanistic Insights into the Metal-Dependent Activation of Zn^{II}-Dependent Metallochaperones. Inorganic Chemistry, 2019, 58, 13661-13672.	1.9	26
23	A Mn-sensing riboswitch activates expression of a Mn2+/Ca2+ ATPase transporter in Streptococcus. Nucleic Acids Research, 2019, 47, 6885-6899.	6.5	40
24	Multi-metal Restriction by Calprotectin Impacts De Novo Flavin Biosynthesis in Acinetobacter baumannii. Cell Chemical Biology, 2019, 26, 745-755.e7.	2.5	61
25	An Acinetobacter baumannii, Zinc-Regulated Peptidase Maintains Cell Wall Integrity during Immune-Mediated Nutrient Sequestration. Cell Reports, 2019, 26, 2009-2018.e6.	2.9	61
26	Hydrogen Sulfide Sensing through Reactive Sulfur Species (RSS) and Nitroxyl (HNO) in Enterococcus faecalis. ACS Chemical Biology, 2018, 13, 1610-1620.	1.6	37
27	Metal-dependent allosteric activation and inhibition on the same molecular scaffold: theÂcopper sensor CopY from Streptococcus pneumoniae. Chemical Science, 2018, 9, 105-118.	3.7	27
28	Thioredoxin Profiling of Multiple Thioredoxin-Like Proteins in Staphylococcus aureus. Frontiers in Microbiology, 2018, 9, 2385.	1.5	20
29	Functional Role of Solvent Entropy and Conformational Entropy of Metal Binding in a Dynamically Driven Allosteric System. Journal of the American Chemical Society, 2018, 140, 9108-9119.	6.6	26
30	Tuning site-specific dynamics to drive allosteric activation in a pneumococcal zinc uptake regulator. ELife, 2018, 7, .	2.8	26
31	Perturbation of manganese metabolism disrupts cell division in Streptococcus pneumoniae. Molecular Microbiology, 2017, 104, 334-348.	1.2	58
32	The zinc efflux activator <scp>S</scp>cz<scp>A</scp> protects <scp>S</scp>treptococcus pneumoniae serotype 2 <scp>D</scp>39 from intracellular zinc toxicity. Molecular Microbiology, 2017, 104, 636-651.	1.2	40
33	Sulfide-responsive transcriptional repressor SqrR functions as a master regulator of sulfide-dependent photosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2355-2360.	3.3	68
34	Biological and Chemical Adaptation to Endogenous Hydrogen Peroxide Production in Streptococcus pneumoniae D39. MSphere, 2017, 2, .	1.3	58
35	A new player in bacterial sulfideâ€inducible transcriptional regulation. Molecular Microbiology, 2017, 105, 347-352.	1.2	17
36	Entropy redistribution controls allostery in a metalloregulatory protein. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4424-4429.	3.3	75

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37	Hydrogen Sulfide and Reactive Sulfur Species Impact Proteome S-Sulfhydration and Global Virulence Regulation in Staphylococcus aureus. ACS Infectious Diseases, 2017, 3, 744-755.	1.8	73
38	Sulfide Homeostasis and Nitroxyl Intersect via Formation of Reactive Sulfur Species in Staphylococcus aureus. MSphere, 2017, 2, .	1.3	71
39	Metallochaperones and metalloregulation in bacteria. Essays in Biochemistry, 2017, 61, 177-200.	2.1	103
40	Bacterial Strategies to Maintain Zinc Metallostasis at the Host-Pathogen Interface. Journal of Biological Chemistry, 2016, 291, 20858-20868.	1.6	131
41	Mammalian copper biology: hitting the pause button in celebration of three pioneers and four decades of discovery. Metallomics, 2016, 8, 810-812.	1.0	3
42	Staphylococcus aureus sqr Encodes a Type II Sulfide:Quinone Oxidoreductase and Impacts Reactive Sulfur Speciation in Cells. Biochemistry, 2016, 55, 6524-6534.	1.2	48
43	Crystal structure of Clostridium difficile toxin A. Nature Microbiology, 2016, 1, 15002.	5.9	79
44	The Response of Acinetobacter baumannii to Zinc Starvation. Cell Host and Microbe, 2016, 19, 826-836.	5.1	108
45	1H, 13C, 15N resonance assignments of the extracellular loop 1 domain (ECL1) of Streptococcus pneumoniae D39 FtsX, an essential cell division protein. Biomolecular NMR Assignments, 2016, 10, 89-92.	0.4	5
46	Functional Determinants of Metal Ion Transport and Selectivity in Paralogous Cation Diffusion Facilitator Transporters CzcD and MntE in Streptococcus pneumoniae. Journal of Bacteriology, 2016, 198, 1066-1076.	1.0	53
47	The scope of Metallomics. Metallomics, 2016, 8, 8-8.	1.0	1
48	The S2 Cu(<scp>i</scp>) site in CupA from Streptococcus pneumoniae is required for cellular copper resistance. Metallomics, 2016, 8, 61-70.	1.0	18
49	Resolution of Stepwise Cooperativities of Copper Binding by the Homotetrameric Copperâ€Sensitive Operon Repressor (CsoR): Impact on Structure and Stability. Angewandte Chemie - International Edition, 2015, 54, 12795-12799.	7.2	11
50	Staphylococcus aureus CstB Is a Novel Multidomain Persulfide Dioxygenase-Sulfurtransferase Involved in Hydrogen Sulfide Detoxification. Biochemistry, 2015, 54, 4542-4554.	1.2	63
51	Electrostatic Occlusion and Quaternary Structural Ion Pairing Are Key Determinants of Cu(I)-Mediated Allostery in the Copper-Sensing Operon Repressor (CsoR). Biochemistry, 2015, 54, 2463-2472.	1.2	15
52	Conformational Analysis and Chemical Reactivity of the Multidomain Sulfurtransferase, Staphylococcus aureus CstA. Biochemistry, 2015, 54, 2385-2398.	1.2	36
53	Cysteine Sulfur Chemistry in Transcriptional Regulators at the Hostâ€“Bacterial Pathogen Interface. Biochemistry, 2015, 54, 3235-3249.	1.2	21
54	SHAPE analysis of the RNA secondary structure of the Mouse Hepatitis Virus 5â€™ untranslated region and N-terminal nsp1 coding sequences. Virology, 2015, 475, 15-27.	1.1	30

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55	Cu(I)-mediated Allosteric Switching in a Copper-sensing Operon Repressor (CsoR). Journal of Biological Chemistry, 2014, 289, 19204-19217.	1.6	50
56	The <scp>CsoR</scp>â€like sulfurtransferase repressor (<scp>CstR</scp>) is a persulfide sensor in <scp>S</scp>taphylococcus aureus. Molecular Microbiology, 2014, 94, 1343-1360.	1.2	102
57	1H, 13C, 15N resonance assignments of murine hepatitis virus nonstructural protein 3a. Biomolecular NMR Assignments, 2014, 8, 15-17.	0.4	1
58	Recent developments in copper and zinc homeostasis in bacterial pathogens. Current Opinion in Chemical Biology, 2014, 19, 59-66.	2.8	111
59	Copper Transport and Trafficking at the Hostâ€“Bacterial Pathogen Interface. Accounts of Chemical Research, 2014, 47, 3605-3613.	7.6	106
60	Conversion of S-phenylsulfonylcysteine residues to mixed disulfides at pH 4.0: utility in protein thiol blocking and in protein-S-nitrosothiol detection. Organic and Biomolecular Chemistry, 2014, 12, 7942-7956.	1.5	13
61	Backbone and sterospecific methyl side chain resonance assignments of the homodimeric zinc sensor AdcR (32ÂkDa) in the apo- and Zn(II)-bound states. Biomolecular NMR Assignments, 2014, 8, 11-14.	0.4	3
62	Insights into Protein Allostery in the CsoR/RcnR Family of Transcriptional Repressors. Chemistry Letters, 2014, 43, 20-25.	0.7	44
63	Solution NMR refinement of a metal ion bound protein using metal ion inclusive restrained molecular dynamics methods. Journal of Biomolecular NMR, 2013, 56, 125-137.	1.6	22
64	1H, 13C, and 15N resonance assignments of NmtR, a Ni(II)/Co(II) metalloregulatory protein of Mycobacterium tuberculosis. Biomolecular NMR Assignments, 2013, 7, 145-148.	0.4	3
65	Metalâ€Regulated Gene Expression. , 2013, , 35-49.		0
66	Physical Characterization of the Manganese-Sensing Pneumococcal Surface Antigen Repressor from Streptococcus pneumoniae. Biochemistry, 2013, 52, 7689-7701.	1.2	41
67	Selenite and tellurite form mixed seleno- and tellurotrisulfides with CstR from Staphylococcus aureus. Metallomics, 2013, 5, 335.	1.0	21
68	Allosteric Inhibition of a Zinc-Sensing Transcriptional Repressor: Insights into the Arsenic Repressor (ArsR) Family. Journal of Molecular Biology, 2013, 425, 1143-1157.	2.0	35
69	A new structural paradigm in copper resistance in Streptococcus pneumoniae. Nature Chemical Biology, 2013, 9, 177-183.	3.9	85
70	Backbone resonance assignments of the homotetrameric (48ÂkD) copper sensor CsoR from Geobacillus thermodenitrificans in the apo- and Cu(I)-bound states: insights into copper-mediated allostery. Biomolecular NMR Assignments, 2013, 7, 279-283.	0.4	11
71	Energetics of Zinc-Mediated Interactions in the Allosteric Pathways of Metal Sensor Proteins. Journal of the American Chemical Society, 2013, 135, 30-33.	6.6	24
72	Solution Structure of Mouse Hepatitis Virus (MHV) nsp3a and Determinants of the Interaction with MHV Nucleocapsid (N) Protein. Journal of Virology, 2013, 87, 3502-3515.	1.5	33

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73	Coâ€ordinate synthesis and protein localization in a bacterial organelle by the action of a penicillinâ€bindingâ€protein. Molecular Microbiology, 2013, 90, 1162-1177.	1.2	27
74	Manganese acquisition and homeostasis at the host-pathogen interface. Frontiers in Cellular and Infection Microbiology, 2013, 3, 91.	1.8	111
75	Functional Transcriptional Regulatory Sequence (TRS) RNA Binding and Helix Destabilizing Determinants of Murine Hepatitis Virus (MHV) Nucleocapsid (N) Protein. Journal of Biological Chemistry, 2012, 287, 7063-7073.	1.6	40
76	Solution Structure of Mycobacterium tuberculosis NmtR in the Apo State: Insights into Ni(II)-Mediated Allostery. Biochemistry, 2012, 51, 2619-2629.	1.2	42
77	Metal site occupancy and allosteric switching in bacterial metal sensor proteins. Archives of Biochemistry and Biophysics, 2012, 519, 210-222.	1.4	66
78	Simulations of Allosteric Motions in the Zinc Sensor CzrA. Journal of the American Chemical Society, 2012, 134, 3367-3376.	6.6	42
79	Allosteric Coupling Between Transition Metal-Binding Sites in Homooligomeric Metal Sensor Proteins. Methods in Molecular Biology, 2012, 796, 31-51.	0.4	7
80	Illuminating Allostery in Metal Sensing Transcriptional Regulators. Methods in Molecular Biology, 2012, 875, 165-192.	0.4	8
81	Interplay between manganese and zinc homeostasis in the human pathogen Streptococcus pneumoniae. Metallomics, 2011, 3, 38-41.	1.0	104
82	Mycobacterium tuberculosis NmtR Harbors a Nickel Sensing Site with Parallels to Escherichia coli RcnR. Biochemistry, 2011, 50, 7941-7952.	1.2	35
83	Ratiometric Pulseâ€“Chase Amidination Mass Spectrometry as a Probe of Biomolecular Complex Formation. Analytical Chemistry, 2011, 83, 9092-9099.	3.2	19
84	Crystal Structure of the Zinc-Dependent MarR Family Transcriptional Regulator AdcR in the Zn(II)-Bound State. Journal of the American Chemical Society, 2011, 133, 19614-19617.	6.6	59
85	The solution structure of coronaviral stem-loop 2 (SL2) reveals a canonical CUYG tetraloop fold. FEBS Letters, 2011, 585, 1049-1053.	1.3	36
86	Metalloregulatory proteins: Metal selectivity and allosteric switching. Biophysical Chemistry, 2011, 156, 103-114.	1.5	147
87	A conserved RNA pseudoknot in a putative molecular switch domain of the 3â€²-untranslated region of coronaviruses is only marginally stable. Rna, 2011, 17, 1747-1759.	1.6	33
88	The CRR1 Nutritional Copper Sensor in Chlamydomonas Contains Two Distinct Metal-Responsive Domains Â Â. Plant Cell, 2011, 22, 4098-4113.	3.1	93
89	Mouse Hepatitis Virus Stem-Loop 4 Functions as a Spacer Element Required To Drive Subgenomic RNA Synthesis. Journal of Virology, 2011, 85, 9199-9209.	1.5	40
90	Control of Copper Resistance and Inorganic Sulfur Metabolism by Paralogous Regulators in Staphylococcus aureus. Journal of Biological Chemistry, 2011, 286, 13522-13531.	1.6	91

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91	Predicting loopâ€“helix tertiary structural contacts in RNA pseudoknots. Rna, 2010, 16, 538-552.	1.6	38
92	On the Structure, Function and Metalloregulatory Properties of the Zinc-Activated Repressor Streptococcus Pneumoniae AdcR. Biophysical Journal, 2010, 98, 73a.	0.2	0
93	A Q63E Rhodobacter sphaeroides AppA BLUF Domain Mutant Is Locked in a Pseudo-Light-Excited Signaling State. Biochemistry, 2010, 49, 10682-10690.	1.2	17
94	The Metalloregulatory Zinc Site in Streptococcus pneumoniae AdcR, a Zinc-activated MarR Family Repressor. Journal of Molecular Biology, 2010, 403, 197-216.	2.0	81
95	Elucidation of the Functional Metal Binding Profile of a Cd^{II}/Pb^{II} Sensor CmtR^{Sc} from Streptomyces coelicolor. Biochemistry, 2010, 49, 6617-6626.	1.2	17
96	Mouse Hepatitis Virus Stem-Loop 2 Adopts a uYNMG(U)a-Like Tetraloop Structure That Is Highly Functionally Tolerant of Base Substitutions. Journal of Virology, 2009, 83, 12084-12093.	1.5	40
97	Solution structure of a paradigm ArsR family zinc sensor in the DNA-bound state. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18177-18182.	3.3	62
98	Structure ofThermotoga maritimaTM0439: implications for the mechanism of bacterial GntR transcription regulators with Zn²⁺-binding FCD domains. Acta Crystallographica Section D: Biological Crystallography, 2009, 65, 356-365.	2.5	31
99	Hydrogen peroxide sensing in Bacillus subtilis: it is all about the (metallo)regulator. Molecular Microbiology, 2009, 73, 1-4.	1.2	19
100	Unnatural Amino Acid Substitution as a Probe of the Allosteric Coupling Pathway in a Mycobacterial Cu(I) Sensor. Journal of the American Chemical Society, 2009, 131, 18044-18045.	6.6	54
101	Energetics of Allosteric Negative Coupling in the Zinc Sensor S. aureus CzrA. Journal of the American Chemical Society, 2009, 131, 17860-17870.	6.6	38
102	Spectroscopic Studies of the AppA BLUF Domain from Rhodobacter sphaeroides: Addressing Movement of Tryptophan 104 in the Signaling State. Biochemistry, 2009, 48, 9969-9979.	1.2	42
103	Frameshifting RNA pseudoknots: Structure and mechanism. Virus Research, 2009, 139, 193-208.	1.1	262
104	Coronavirus N Protein N-Terminal Domain (NTD) Specifically Binds the Transcriptional Regulatory Sequence (TRS) and Melts TRS-cTRS RNA Duplexes. Journal of Molecular Biology, 2009, 394, 544-557.	2.0	130
105	Coordination Chemistry of Bacterial Metal Transport and Sensing. Chemical Reviews, 2009, 109, 4644-4681.	23.0	540
106	Molecular Insights into the Metal Selectivity of the Copper(I)-Sensing Repressor CsoR from Bacillus subtilis. Biochemistry, 2009, 48, 3325-3334.	1.2	100
107	Structural Lability in Stemâ€“Loop 1 Drives a 5â€² UTRâ€“3â€² UTR Interaction in Coronavirus Replication. Journal of Molecular Biology, 2008, 377, 790-803.	2.0	91
108	Simulating RNA Folding Kinetics on Approximated Energy Landscapes. Journal of Molecular Biology, 2008, 381, 1055-1067.	2.0	53

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109	A Cu^I-Sensing ArsR Family Metal Sensor Protein with a Relaxed Metal Selectivity Profile. Biochemistry, 2008, 47, 10564-10575.	1.2	47
110	Copper sensing function of Drosophila metal-responsive transcription factor-1 is mediated by a tetranuclear Cu(I) cluster. Nucleic Acids Research, 2008, 36, 3128-3138.	6.5	40
111	A U-turn motif-containing stem-loop in the coronavirus 5' untranslated region plays a functional role in replication. Rna, 2007, 13, 763-780.	1.6	80
112	Metal sensor proteins: nature's metalloregulated allosteric switches. Dalton Transactions, 2007, , 3107.	1.6	178
113	Multiple Metal Binding Domains Enhance the Zn(II) Selectivity of the Divalent Metal Ion Transporter AztA. Biochemistry, 2007, 46, 11057-11068.	1.2	20
114	CsoR is a novel Mycobacterium tuberculosis copper-sensing transcriptional regulator. , 2007, 3, 60-68.		291
115	Resonance assignments of the metal sensor CzrA in the apo-, Zn2- and DNA-bound (42ÂkDa) states. Biomolecular NMR Assignments, 2007, 1, 99-101.	0.4	14
116	Structural Insights into Homo- and Heterotropic Allosteric Coupling in the Zinc SensorS. aureusCzrA from Covalently Fused Dimers. Journal of the American Chemical Society, 2006, 128, 1937-1947.	6.6	18
117	Pairwise Coupling Analysis of Helical Junction Hydrogen Bonding Interactions in Luteoviral RNA Pseudoknotsâ€. Biochemistry, 2006, 45, 11162-11171.	1.2	11
118	Individual Metal Ligands Play Distinct Functional Roles in the Zinc Sensor Staphylococcus aureus CzrA. Journal of Molecular Biology, 2006, 356, 1124-1136.	2.0	57
119	Kinetics of metal binding by the toxic metal-sensing transcriptional repressor Staphylococcus aureus pI258 CadC. Journal of Inorganic Biochemistry, 2006, 100, 1024-1034.	1.5	18
120	Dissecting non-canonical interactions in frameshift-stimulating mRNA pseudoknots. Journal of Biomolecular NMR, 2006, 35, 209-223.	1.6	15
121	Putative cis -Acting Stem-Loops in the 5â€² Untranslated Region of the Severe Acute Respiratory Syndrome Coronavirus Can Substitute for Their Mouse Hepatitis Virus Counterparts. Journal of Virology, 2006, 80, 10600-10614.	1.5	44
122	The global structures of a wild-type and poorly functional plant luteoviral mRNA pseudoknot are essentially identical. Rna, 2006, 12, 1959-1969.	1.6	32
123	Stem-Loop 1 in the 5â€™ UTR of the Sars Coronavirus can Substitute for its Counterpart in Mouse Hepatitis Virus. Advances in Experimental Medicine and Biology, 2006, 581, 105-108.	0.8	10
124	A Previously Unrecognized Unr Stem-Loop Structure in the Coronavirus 5â€™ Untranslated Region Plays a Functional role in Replication. Advances in Experimental Medicine and Biology, 2006, 581, 25-30.	0.8	5
125	Structural Determinants of Metal Selectivity in Prokaryotic Metal-responsive Transcriptional Regulators. BioMetals, 2005, 18, 413-428.	1.8	122
126	A loop 2 cytidine-stem 1 minor groove interaction as a positive determinant for pseudoknot-stimulated -1 ribosomal frameshifting. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12694-12699.	3.3	86

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127	Structural and Functional Characterization of Mycobacterium tuberculosis CmtR, a PbII/CdII-Sensing SmtB/ArsR Metalloregulatory Repressor. Biochemistry, 2005, 44, 8976-8988.	1.2	59
128	A Zinc(II)/Lead(II)/Cadmium(II)-Inducible Operon from the CyanobacteriumAnabaenals Regulated by AztR, an Î±3N ArsR/SmtB Metalloregulatorâ€. Biochemistry, 2005, 44, 8673-8683.	1.2	59
129	A Novel Cysteine Cluster in Human Metal-responsive Transcription Factor 1 Is Required for Heavy Metal-induced Transcriptional Activation in Vivo. Journal of Biological Chemistry, 2004, 279, 4515-4522.	1.6	48
130	Dual Functions of Single-stranded DNA-binding Protein in Helicase Loading at the Bacteriophage T4 DNA Replication Fork. Journal of Biological Chemistry, 2004, 279, 19035-19045.	1.6	38
131	A Novel Cyanobacterial SmtB/ArsR Family Repressor Regulates the Expression of a CPx-ATPase and a Metallothionein in Response to Both Cu(I)/Ag(I) and Zn(II)/Cd(II). Journal of Biological Chemistry, 2004, 279, 17810-17818.	1.6	54
132	Ratiometric Pulsed Alkylation Mass Spectrometry as a Probe of Thiolate Reactivity in Different Metalloderivatives ofStaphylococcus aureuspI258 CadCâ€‚â€¡. Biochemistry, 2004, 43, 3824-3834.	1.2	34
133	The SmtB/ArsR family of metalloregulatory transcriptional repressors: structural insights into prokaryotic metal resistance. FEMS Microbiology Reviews, 2003, 27, 131-143.	3.9	350
134	Detection of Scalar Couplings Involving 2â€˜-Hydroxyl Protons Across Hydrogen Bonds in a Frameshifting mRNA Pseudoknot. Journal of the American Chemical Society, 2003, 125, 4676-4677.	6.6	37
135	A Metalâ€“Ligand-mediated Intersubunit Allosteric Switch in Related SmtB/ArsR Zinc Sensor Proteins. Journal of Molecular Biology, 2003, 333, 683-695.	2.0	121
136	Structural elements of metal selectivity in metal sensor proteins. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3713-3718.	3.3	114
137	A Nickel-Cobalt-sensing ArsR-SmtB Family Repressor. Journal of Biological Chemistry, 2002, 277, 38441-38448.	1.6	134
138	Structural Characterization of Distinct Î±3N and Î±5 Metal Sites in the Cyanobacterial Zinc Sensor SmtBâ€. Biochemistry, 2002, 41, 9765-9775.	1.2	55
139	Allosteric Negative Regulation ofsmtO/P Binding of the Zinc Sensor, SmtB, by Metal Ions:Â A Coupled Equilibrium Analysisâ€. Biochemistry, 2002, 41, 9776-9786.	1.2	57
140	Thermodynamic Analysis of Conserved Loopâ€“Stem Interactions in P1â€“P2 Frameshifting RNA Pseudoknots from Plant Luteoviridae. Biochemistry, 2002, 41, 10665-10674.	1.2	37
141	Elucidation of Primary (Î±3N) and Vestigial (Î±5) Heavy Metal-binding Sites in Staphylococcus aureus pI258 CadC: Evolutionary Implications for Metal Ion Selectivity of ArsR/SmtB Metal Sensor Proteins. Journal of Molecular Biology, 2002, 319, 685-701.	2.0	105
142	Solution Structure of a Luteoviral P1â€“P2 Frameshifting mRNA Pseudoknot. Journal of Molecular Biology, 2002, 322, 621-633.	2.0	83
143	Characterization of a metalloregulatory bismuth(III) site in Staphylococcus aureus pI258 CadC repressor. Journal of Biological Inorganic Chemistry, 2002, 7, 551-559.	1.1	32
144	Metal Response Element (MRE)-Binding Transcription Factor-1 (MTF-1): Structure, Function, and Regulation. Antioxidants and Redox Signaling, 2001, 3, 577-596.	2.5	148

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145	Spectroscopic Properties of the Metalloregulatory Cd(II) and Pb(II) Sites ofS. aureuspI258 CadCâ€. Biochemistry, 2001, 40, 4426-4436.	1.2	91
146	Ratiometric Pulsed Alkylation/Mass Spectrometry of the Cysteine Pairs in Individual Zinc Fingers of MRE-Binding Transcription Factor-1 (MTF-1) as a Probe of Zinc Chelate Stability. Biochemistry, 2001, 40, 15164-15175.	1.2	60
147	Conformational Heterogeneity in the C-terminal Zinc Fingers of Human MTF-1. Journal of Biological Chemistry, 2001, 276, 42322-42332.	1.6	32
148	Spectroscopic characterization of Co(II)-, Ni(II)-, and Cd(II)-substituted wild-type and non-native retroviral-type zinc finger peptides. Journal of Biological Inorganic Chemistry, 2000, 5, 93-101.	1.1	63
149	Contribution of the intercalated adenosine at the helical junction to the stability of the gag-pro frameshifting pseudoknot from mouse mammary tumor virus. Rna, 2000, 6, 409-421.	1.6	39
150	Mutations in the N-terminal Cooperativity Domain of Gene 32 Protein Alter Properties of the T4 DNA Replication and Recombination Systems. Journal of Biological Chemistry, 2000, 275, 31496-31504.	1.6	10
151	Energetics of a strongly pH dependent RNA tertiary structure in a frameshifting pseudoknot 1 1Edited by I. Tinoco. Journal of Molecular Biology, 2000, 296, 659-671.	2.0	87
152	Structure, stability and function of RNA pseudoknots involved in stimulating ribosomal frameshifting. Journal of Molecular Biology, 2000, 298, 167-185.	2.0	220
153	The Zinc Metalloregulatory ProteinSynechococcusPCC7942 SmtB Binds a Single Zinc Ion per Monomer with High Affinity in a Tetrahedral Coordination Geometryâ€. Biochemistry, 2000, 39, 11818-11829.	1.2	117
154	Thermodynamics of stabilization of RNA pseudoknots by cobalt(III) hexaammine. , 1999, 50, 443-458.		18
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