

# David P Giedroc

## List of Publications by Citations

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190  
papers

8,613  
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53  
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83  
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206  
ext. papers

9,878  
ext. citations

7  
avg, IF

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L-index

#	Paper	IF	Citations
190	Coordination chemistry of bacterial metal transport and sensing. <i>Chemical Reviews</i> , <b>2009</b> , 109, 4644-81	68.1	450
189	The RNA molecule CsrB binds to the global regulatory protein CsrA and antagonizes its activity in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 17502-10	5.4	326
188	The SmtB/ArsR family of metalloregulatory transcriptional repressors: Structural insights into prokaryotic metal resistance. <i>FEMS Microbiology Reviews</i> , <b>2003</b> , 27, 131-43	15.1	293
187	CsoR is a novel <i>Mycobacterium tuberculosis</i> copper-sensing transcriptional regulator <b>2007</b> , 3, 60-8		250
186	Frameshifting RNA pseudoknots: structure and mechanism. <i>Virus Research</i> , <b>2009</b> , 139, 193-208	6.4	221
185	Structure, stability and function of RNA pseudoknots involved in stimulating ribosomal frameshifting. <i>Journal of Molecular Biology</i> , <b>2000</b> , 298, 167-85	6.5	189
184	Recombinant HIV-1 nucleocapsid protein accelerates HIV-1 reverse transcriptase catalyzed DNA strand transfer reactions and modulates RNase H activity. <i>Biochemistry</i> , <b>1994</b> , 33, 13817-23	3.2	167
183	Metal sensor proteins: nature's metalloregulated allosteric switches. <i>Dalton Transactions</i> , <b>2007</b> , 3107-204.3		165
182	Gene 32 protein, the single-stranded DNA binding protein from bacteriophage T4, is a zinc metalloprotein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1986</b> , 83, 8452-6	11.5	137
181	Metal response element (MRE)-binding transcription factor-1 (MTF-1): structure, function, and regulation. <i>Antioxidants and Redox Signaling</i> , <b>2001</b> , 3, 577-96	8.4	129
180	A nickel-cobalt-sensing ArsR-SmtB family repressor. Contributions of cytosol and effector binding sites to metal selectivity. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 38441-8	5.4	124
179	Metalloregulatory proteins: metal selectivity and allosteric switching. <i>Biophysical Chemistry</i> , <b>2011</b> , 156, 103-14	3.5	121
178	Structural determinants of metal selectivity in prokaryotic metal-responsive transcriptional regulators. <i>BioMetals</i> , <b>2005</b> , 18, 413-28	3.4	115
177	The zinc metalloregulatory protein <i>Synechococcus</i> PCC7942 SmtB binds a single zinc ion per monomer with high affinity in a tetrahedral coordination geometry. <i>Biochemistry</i> , <b>2000</b> , 39, 11818-29	3.2	109
176	A metal-ligand-mediated intersubunit allosteric switch in related SmtB/ArsR zinc sensor proteins. <i>Journal of Molecular Biology</i> , <b>2003</b> , 333, 683-95	6.5	107
175	Structural elements of metal selectivity in metal sensor proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 3713-8	11.5	105
174	Coronavirus N protein N-terminal domain (NTD) specifically binds the transcriptional regulatory sequence (TRS) and melts TRS-cTRS RNA duplexes. <i>Journal of Molecular Biology</i> , <b>2009</b> , 394, 544-57	6.5	99

173	Elucidation of primary (alpha(3)N) and vestigial (alpha(5)) heavy metal-binding sites in <i>Staphylococcus aureus</i> pI258 CadC: evolutionary implications for metal ion selectivity of ArsR/SmtB metal sensor proteins. <i>Journal of Molecular Biology</i> , <b>2002</b> , 319, 685-701	6.5	96
172	MRE-Binding transcription factor-1: weak zinc-binding finger domains 5 and 6 modulate the structure, affinity, and specificity of the metal-response element complex. <i>Biochemistry</i> , <b>1999</b> , 38, 12915-25	3.2	96
171	Molecular insights into the metal selectivity of the copper(I)-sensing repressor CsoR from <i>Bacillus subtilis</i> . <i>Biochemistry</i> , <b>2009</b> , 48, 3325-34	3.2	90
170	Bacterial Strategies to Maintain Zinc Metallostatics at the Host-Pathogen Interface. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 20858-20868	5.4	89
169	Recent developments in copper and zinc homeostasis in bacterial pathogens. <i>Current Opinion in Chemical Biology</i> , <b>2014</b> , 19, 59-66	9.7	88
168	Manganese acquisition and homeostasis at the host-pathogen interface. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2013</b> , 3, 91	5.9	86
167	Spectroscopic properties of the metalloregulatory Cd(II) and Pb(II) sites of <i>S. aureus</i> pI258 CadC. <i>Biochemistry</i> , <b>2001</b> , 40, 4426-36	3.2	83
166	Interplay between manganese and zinc homeostasis in the human pathogen <i>Streptococcus pneumoniae</i> . <i>Metallomics</i> , <b>2011</b> , 3, 38-41	4.5	81
165	The Response of <i>Acinetobacter baumannii</i> to Zinc Starvation. <i>Cell Host and Microbe</i> , <b>2016</b> , 19, 826-36	23.4	79
164	A loop 2 cytidine-stem 1 minor groove interaction as a positive determinant for pseudoknot-stimulated -1 ribosomal frameshifting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 12694-9	11.5	78
163	Energetics of a strongly pH dependent RNA tertiary structure in a frameshifting pseudoknot. <i>Journal of Molecular Biology</i> , <b>2000</b> , 296, 659-71	6.5	77
162	Retroviral nucleocapsid proteins possess potent nucleic acid strand renaturation activity. <i>Protein Science</i> , <b>1993</b> , 2, 231-43	6.3	77
161	Cell-free biosensors for rapid detection of water contaminants. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 1451-1459	11.5	75
160	Control of copper resistance and inorganic sulfur metabolism by paralogous regulators in <i>Staphylococcus aureus</i> . <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 13522-31	5.4	75
159	Solution structure of a luteoviral P1-P2 frameshifting mRNA pseudoknot. <i>Journal of Molecular Biology</i> , <b>2002</b> , 322, 621-33	6.5	73
158	A new structural paradigm in copper resistance in <i>Streptococcus pneumoniae</i> . <i>Nature Chemical Biology</i> , <b>2013</b> , 9, 177-83	11.7	72
157	Copper transport and trafficking at the host-bacterial pathogen interface. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 3605-13	24.3	71
156	The CsoR-like sulfurtransferase repressor (CstR) is a persulfide sensor in <i>Staphylococcus aureus</i> . <i>Molecular Microbiology</i> , <b>2014</b> , 94, 1343-60	4.1	71

155	The metalloregulatory zinc site in <i>Streptococcus pneumoniae</i> AdcR, a zinc-activated MarR family repressor. <i>Journal of Molecular Biology</i> , <b>2010</b> , 403, 197-216	6.5	71
154	Structural and functional heterogeneity among the zinc fingers of human MRE-binding transcription factor-1. <i>Biochemistry</i> , <b>1998</b> , 37, 11152-61	3.2	71
153	Structural lability in stem-loop 1 drives a 5SUTR-3SUTR interaction in coronavirus replication. <i>Journal of Molecular Biology</i> , <b>2008</b> , 377, 790-803	6.5	69
152	The CRR1 nutritional copper sensor in <i>Chlamydomonas</i> contains two distinct metal-responsive domains. <i>Plant Cell</i> , <b>2010</b> , 22, 4098-113	11.6	68
151	Crystal structure of <i>Clostridium difficile</i> toxin A. <i>Nature Microbiology</i> , <b>2016</b> , 1, 15002	26.6	62
150	Spectroscopic characterization of Co(II)-, Ni(II)-, and Cd(II)-substituted wild-type and non-native retroviral-type zinc finger peptides. <i>Journal of Biological Inorganic Chemistry</i> , <b>2000</b> , 5, 93-101	3.7	59
149	A U-turn motif-containing stem-loop in the coronavirus 5S untranslated region plays a functional role in replication. <i>Rna</i> , <b>2007</b> , 13, 763-80	5.8	56
148	Structure of the autoregulatory pseudoknot within the gene 32 messenger RNA of bacteriophages T2 and T6: a model for a possible family of structurally related RNA pseudoknots. <i>Biochemistry</i> , <b>1996</b> , 35, 4187-98	3.2	56
147	Entropy redistribution controls allostery in a metalloregulatory protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 4424-4429	11.5	55
146	Metal site occupancy and allosteric switching in bacterial metal sensor proteins. <i>Archives of Biochemistry and Biophysics</i> , <b>2012</b> , 519, 210-22	4.1	55
145	Solution structure of a paradigm ArsR family zinc sensor in the DNA-bound state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 18177-82	11.5	54
144	Allosteric negative regulation of smt O/P binding of the zinc sensor, SmtB, by metal ions: a coupled equilibrium analysis. <i>Biochemistry</i> , <b>2002</b> , 41, 9776-86	3.2	54
143	The function of zinc in gene 32 protein from T4. <i>Biochemistry</i> , <b>1987</b> , 26, 5251-9	3.2	54
142	Metallochaperones and metalloregulation in bacteria. <i>Essays in Biochemistry</i> , <b>2017</b> , 61, 177-200	7.6	53
141	Structural and functional characterization of <i>Mycobacterium tuberculosis</i> CmtR, a PblI/CdII-sensing SmtB/ArsR metalloregulatory repressor. <i>Biochemistry</i> , <b>2005</b> , 44, 8976-88	3.2	53
140	A zinc(II)/lead(II)/cadmium(II)-inducible operon from the <i>Cyanobacterium anabaena</i> is regulated by AztR, an alpha3N ArsR/SmtB metalloregulator. <i>Biochemistry</i> , <b>2005</b> , 44, 8673-83	3.2	53
139	Individual metal ligands play distinct functional roles in the zinc sensor <i>Staphylococcus aureus</i> CzrA. <i>Journal of Molecular Biology</i> , <b>2006</b> , 356, 1124-36	6.5	53
138	Structural characterization of distinct alpha3N and alpha5 metal sites in the cyanobacterial zinc sensor SmtB. <i>Biochemistry</i> , <b>2002</b> , 41, 9765-75	3.2	53

137	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. <i>Biochemistry</i> , <b>2001</b> , 40, 15164-75	3.2	51
136	Sulfide-responsive transcriptional repressor SqrR functions as a master regulator of sulfide-dependent photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 2355-2360	11.5	50
135	Unnatural amino acid substitution as a probe of the allosteric coupling pathway in a mycobacterial Cu(I) sensor. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 18044-5	16.4	50
134	Crystal structure of the zinc-dependent MarR family transcriptional regulator AdcR in the Zn(II)-bound state. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 19614-7	16.4	49
133	Simulating RNA folding kinetics on approximated energy landscapes. <i>Journal of Molecular Biology</i> , <b>2008</b> , 381, 1055-67	6.5	48
132	Non-nearest neighbor effects on the thermodynamics of unfolding of a model mRNA pseudoknot. <i>Journal of Molecular Biology</i> , <b>1998</b> , 279, 545-64	6.5	46
131	Hydrogen Sulfide and Reactive Sulfur Species Impact Proteome S-Sulphydration and Global Virulence Regulation in Staphylococcus aureus. <i>ACS Infectious Diseases</i> , <b>2017</b> , 3, 744-755	5.5	45
130	Sulfide Homeostasis and Nitroxyl Intersect via Formation of Reactive Sulfur Species in. <i>MSphere</i> , <b>2017</b> , 2,	5	45
129	A novel cysteine cluster in human metal-responsive transcription factor 1 is required for heavy metal-induced transcriptional activation in vivo. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 4515-22	5.4	44
128	Cu(I)-mediated allosteric switching in a copper-sensing operon repressor (CsoR). <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 19204-17	5.4	43
127	Base-pairings within the RNA pseudoknot associated with the simian retrovirus-1 gag-pro frameshift site. <i>Journal of Molecular Biology</i> , <b>1997</b> , 270, 464-70	6.5	43
126	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). <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 17810-8	5.4	43
125	Equilibrium unfolding (folding) pathway of a model H-type pseudoknotted RNA: the role of magnesium ions in stability. <i>Biochemistry</i> , <b>1998</b> , 37, 16116-29	3.2	42
124	A Cu(I)-sensing ArsR family metal sensor protein with a relaxed metal selectivity profile. <i>Biochemistry</i> , <b>2008</b> , 47, 10564-75	3.2	41
123	Staphylococcus aureus CstB Is a Novel Multidomain Persulfide Dioxygenase-Sulfurtransferase Involved in Hydrogen Sulfide Detoxification. <i>Biochemistry</i> , <b>2015</b> , 54, 4542-54	3.2	40
122	Spectroscopic studies of the AppA BLUF domain from Rhodobacter sphaeroides: addressing movement of tryptophan 104 in the signaling state. <i>Biochemistry</i> , <b>2009</b> , 48, 9969-79	3.2	40
121	Structural and functional differences between the two intrinsic zinc ions of Escherichia coli RNA polymerase. <i>Biochemistry</i> , <b>1986</b> , 25, 4969-78	3.2	38
120	Functional Determinants of Metal Ion Transport and Selectivity in Paralogous Cation Diffusion Facilitator Transporters CzcD and MntE in Streptococcus pneumoniae. <i>Journal of Bacteriology</i> , <b>2016</b> , 198, 1066-76	3.5	37

119	Solution structure of Mycobacterium tuberculosis NmtR in the apo state: insights into Ni(II)-mediated allostery. <i>Biochemistry</i> , <b>2012</b> , 51, 2619-29	3.2	37
118	Copper sensing function of Drosophila metal-responsive transcription factor-1 is mediated by a tetranuclear Cu(I) cluster. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, 3128-38	20.1	37
117	Putative cis-acting stem-loops in the 5' untranslated region of the severe acute respiratory syndrome coronavirus can substitute for their mouse hepatitis virus counterparts. <i>Journal of Virology</i> , <b>2006</b> , 80, 10600-14	6.6	37
116	Detection of scalar couplings involving 2' hydroxyl protons across hydrogen bonds in a frameshifting mRNA pseudoknot. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 4676-7	16.4	37
115	Identification of beta-endorphin residues 14-25 as a region involved in the inhibition of calmodulin-stimulated phosphodiesterase activity. <i>Biochemistry</i> , <b>1983</b> , 22, 5584-91	3.2	37
114	Insights into Protein Allostery in the CsoR/RcnR Family of Transcriptional Repressors. <i>Chemistry Letters</i> , <b>2014</b> , 43, 20-25	1.7	36
113	Simulations of allosteric motions in the zinc sensor CzrA. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 3367-76	16.4	36
112	Functional transcriptional regulatory sequence (TRS) RNA binding and helix destabilizing determinants of murine hepatitis virus (MHV) nucleocapsid (N) protein. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 7063-73	5.4	36
111	Contribution of the intercalated adenosine at the helical junction to the stability of the gag-pro frameshifting pseudoknot from mouse mammary tumor virus. <i>Rna</i> , <b>2000</b> , 6, 409-21	5.8	36
110	An Acinetobacter baumannii, Zinc-Regulated Peptidase Maintains Cell Wall Integrity during Immune-Mediated Nutrient Sequestration. <i>Cell Reports</i> , <b>2019</b> , 26, 2009-2018.e6	10.6	36
109	Multi-metal Restriction by Calprotectin Impacts De Novo Flavin Biosynthesis in Acinetobacter baumannii. <i>Cell Chemical Biology</i> , <b>2019</b> , 26, 745-755.e7	8.2	35
108	Physical characterization of the manganese-sensing pneumococcal surface antigen repressor from Streptococcus pneumoniae. <i>Biochemistry</i> , <b>2013</b> , 52, 7689-701	3.2	35
107	Dual functions of single-stranded DNA-binding protein in helicase loading at the bacteriophage T4 DNA replication fork. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 19035-45	5.4	35
106	Thermodynamics of folding of the RNA pseudoknot of the T4 gene 32 autoregulatory messenger RNA. <i>Biochemistry</i> , <b>1996</b> , 35, 4176-86	3.2	35
105	Zinc site redesign in T4 gene 32 protein: structure and stability of cobalt(II) complexes formed by wild-type and metal ligand substitution mutants. <i>Biochemistry</i> , <b>1997</b> , 36, 730-42	3.2	34
104	NMR spectroscopy of <sup>113</sup> Cd(II)-substituted gene 32 protein. <i>Biochemistry</i> , <b>1989</b> , 28, 2410-8	3.2	34
103	Perturbation of manganese metabolism disrupts cell division in Streptococcus pneumoniae. <i>Molecular Microbiology</i> , <b>2017</b> , 104, 334-348	4.1	33
102	Thermodynamic analysis of conserved loop-stem interactions in P1-P2 frameshifting RNA pseudoknots from plant Luteoviridae. <i>Biochemistry</i> , <b>2002</b> , 41, 10665-74	3.2	33



101	Biological and Chemical Adaptation to Endogenous Hydrogen Peroxide Production in D39. <i>MSphere</i> , <b>2017</b> , 2,	5	32
100	Predicting loop-helix tertiary structural contacts in RNA pseudoknots. <i>Rna</i> , <b>2010</b> , 16, 538-52	5.8	32
99	Mycobacterium tuberculosis NmtR harbors a nickel sensing site with parallels to Escherichia coli RcnR. <i>Biochemistry</i> , <b>2011</b> , 50, 7941-52	3.2	32
98	Equilibrium unfolding pathway of an H-type RNA pseudoknot which promotes programmed -1 ribosomal frameshifting. <i>Journal of Molecular Biology</i> , <b>1999</b> , 289, 1283-99	6.5	32
97	Functional properties of covalent beta-endorphin peptide/calmodulin complexes. Chlorpromazine binding and phosphodiesterase activation. <i>Biochemistry</i> , <b>1985</b> , 24, 1203-11	3.2	32
96	Mouse hepatitis virus stem-loop 2 adopts a uYNMG(U)a-like tetraloop structure that is highly functionally tolerant of base substitutions. <i>Journal of Virology</i> , <b>2009</b> , 83, 12084-93	6.6	31
95	Ratiometric pulsed alkylation mass spectrometry as a probe of thiolate reactivity in different metalloderivatives of Staphylococcus aureus pl258 CadC. <i>Biochemistry</i> , <b>2004</b> , 43, 3824-34	3.2	31
94	Energetics of allosteric negative coupling in the zinc sensor S. aureus CzrA. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 17860-70	16.4	30
93	Thermal denaturation of T4 gene 32 protein: effects of zinc removal and substitution. <i>Biochemistry</i> , <b>1988</b> , 27, 5240-5	3.2	30
92	Allosteric inhibition of a zinc-sensing transcriptional repressor: insights into the arsenic repressor (ArsR) family. <i>Journal of Molecular Biology</i> , <b>2013</b> , 425, 1143-57	6.5	29
91	Solution structure and backbone dynamics of Mason-Pfizer monkey virus (MPMV) nucleocapsid protein. <i>Protein Science</i> , <b>1998</b> , 7, 2265-80	6.3	29
90	The global structures of a wild-type and poorly functional plant luteoviral mRNA pseudoknot are essentially identical. <i>Rna</i> , <b>2006</b> , 12, 1959-69	5.8	29
89	Characterization of a metalloregulatory bismuth(III) site in Staphylococcus aureus pl258 CadC repressor. <i>Journal of Biological Inorganic Chemistry</i> , <b>2002</b> , 7, 551-9	3.7	29
88	Conformational heterogeneity in the C-terminal zinc fingers of human MTF-1: an NMR and zinc-binding study. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 42322-32	5.4	29
87	Zn(II) coordination domain mutants of T4 gene 32 protein. <i>Biochemistry</i> , <b>1992</b> , 31, 765-74	3.2	29
86	Staphylococcus aureus sqr Encodes a Type II Sulfide:Quinone Oxidoreductase and Impacts Reactive Sulfur Speciation in Cells. <i>Biochemistry</i> , <b>2016</b> , 55, 6524-6534	3.2	28
85	Structure of Thermotoga maritima TM0439: implications for the mechanism of bacterial GntR transcription regulators with Zn <sup>2+</sup> -binding FCD domains. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2009</b> , 65, 356-65		28
84	Calcium effects on calmodulin lysine reactivities. <i>Archives of Biochemistry and Biophysics</i> , <b>1987</b> , 252, 136-44		27

83	Solution structure of mouse hepatitis virus (MHV) nsp3a and determinants of the interaction with MHV nucleocapsid (N) protein. <i>Journal of Virology</i> , <b>2013</b> , 87, 3502-15	6.6	26
82	A conserved RNA pseudoknot in a putative molecular switch domain of the 3'Suntranslated region of coronaviruses is only marginally stable. <i>Rna</i> , <b>2011</b> , 17, 1747-59	5.8	26
81	Mouse hepatitis virus stem-loop 4 functions as a spacer element required to drive subgenomic RNA synthesis. <i>Journal of Virology</i> , <b>2011</b> , 85, 9199-209	6.6	26
80	<i>Clostridioides difficile</i> Senses and Hijacks Host Heme for Incorporation into an Oxidative Stress Defense System. <i>Cell Host and Microbe</i> , <b>2020</b> , 28, 411-421.e6	23.4	23
79	The solution structure of coronaviral stem-loop 2 (SL2) reveals a canonical CUYG tetraloop fold. <i>FEBS Letters</i> , <b>2011</b> , 585, 1049-53	3.8	23
78	Conformational analysis and chemical reactivity of the multidomain sulfurtransferase, <i>Staphylococcus aureus</i> CstA. <i>Biochemistry</i> , <b>2015</b> , 54, 2385-98	3.2	22
77	SHAPE analysis of the RNA secondary structure of the Mouse Hepatitis Virus 5'Suntranslated region and N-terminal nsp1 coding sequences. <i>Virology</i> , <b>2015</b> , 475, 15-27	3.6	22
76	Mutational analysis of domain II beta of bacteriophage Mu transposase: domains II alpha and II beta belong to different catalytic complementation groups. <i>Journal of Molecular Biology</i> , <b>1998</b> , 275, 221-32	6.5	22
75	Energetics of arginine-4 substitution mutants in the N-terminal cooperativity domain of T4 gene 32 protein. <i>Biochemistry</i> , <b>1993</b> , 32, 11235-46	3.2	22
74	Mechanism-based inhibitors of dopamine beta-hydroxylase: inhibition by 2-bromo-3-(p-hydroxyphenyl)-1-propene. <i>Biochemistry</i> , <b>1984</b> , 23, 3590-8	3.2	21
73	Structure of the Large Extracellular Loop of FtsX and Its Interaction with the Essential Peptidoglycan Hydrolase PcsB in <i>Streptococcus pneumoniae</i> . <i>MBio</i> , <b>2019</b> , 10,	7.8	20
72	Mechanistic Insights into the Metal-Dependent Activation of Zn-Dependent Metallochaperones. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 13661-13672	5.1	20
71	<sup>1</sup> H NMR studies of T4 gene 32 protein: effects of zinc removal and reconstitution. <i>Biochemistry</i> , <b>1989</b> , 28, 8828-32	3.2	20
70	Zinc metalloproteins involved in replication and transcription. <i>Journal of Inorganic Biochemistry</i> , <b>1986</b> , 28, 155-69	4.2	20
69	The zinc efflux activator SczA protects <i>Streptococcus pneumoniae</i> serotype 2 D39 from intracellular zinc toxicity. <i>Molecular Microbiology</i> , <b>2017</b> , 104, 636-651	4.1	19
68	Hydrogen Sulfide Sensing through Reactive Sulfur Species (RSS) and Nitroxyl (HNO) in <i>Enterococcus faecalis</i> . <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 1610-1620	4.9	19
67	Solution NMR refinement of a metal ion bound protein using metal ion inclusive restrained molecular dynamics methods. <i>Journal of Biomolecular NMR</i> , <b>2013</b> , 56, 125-37	3	19
66	Co-ordinate synthesis and protein localization in a bacterial organelle by the action of a penicillin-binding-protein. <i>Molecular Microbiology</i> , <b>2013</b> , 90, 1162-77	4.1	19



65	Hydrogen peroxide sensing in <i>Bacillus subtilis</i> : it is all about the (metallo)regulator. <i>Molecular Microbiology</i> , <b>2009</b> , 73, 1-4	4.1	19
64	Metal-dependent allosteric activation and inhibition on the same molecular scaffold: the copper sensor CopY from. <i>Chemical Science</i> , <b>2018</b> , 9, 105-118	9.4	19
63	Energetics of zinc-mediated interactions in the allosteric pathways of metal sensor proteins. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 30-3	16.4	18
62	Ratiometric pulse-chase amidination mass spectrometry as a probe of biomolecular complex formation. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 9092-9	7.8	18
61	Multiple metal binding domains enhance the Zn(II) selectivity of the divalent metal ion transporter AztA. <i>Biochemistry</i> , <b>2007</b> , 46, 11057-68	3.2	18
60	Kinetics of metal binding by the toxic metal-sensing transcriptional repressor <i>Staphylococcus aureus</i> pI258 CadC. <i>Journal of Inorganic Biochemistry</i> , <b>2006</b> , 100, 1024-34	4.2	18
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58	Tuning site-specific dynamics to drive allosteric activation in a pneumococcal zinc uptake regulator. <i>ELife</i> , <b>2018</b> , 7,	8.9	18
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