

Nigel J Robinson

List of Publications by Year in descending order

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103
papers

10,063
citations

44042

48
h-index

34964

98
g-index

111
all docs

111
docs citations

111
times ranked

8507
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein metalation in biology. <i>Current Opinion in Chemical Biology</i> , 2022, 66, 102095.	2.8	41
2	The requirement for cobalt in vitamin B12: A paradigm for protein metalation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2021, 1868, 118896.	1.9	58
3	Calculating metalation in cells reveals CobW acquires Coll for vitamin B12 biosynthesis while related proteins prefer ZnII. <i>Nature Communications</i> , 2021, 12, 1195.	5.8	32
4	Metalation: nature's challenge in bioinorganic chemistry. <i>Journal of Biological Inorganic Chemistry</i> , 2020, 25, 543-545.	1.1	13
5	Bacterial sensors define intracellular free energies for correct enzyme metalation. <i>Nature Chemical Biology</i> , 2019, 15, 241-249.	3.9	112
6	A unique ferredoxin acts as a player in the low-iron response of photosynthetic organisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12111-E12120.	3.3	28
7	A tight tunable range for Ni(II) sensing and buffering in cells. <i>Nature Chemical Biology</i> , 2017, 13, 409-414.	3.9	37
8	Fine control of metal concentrations is necessary for cells to discern zinc from cobalt. <i>Nature Communications</i> , 2017, 8, 1884.	5.8	42
9	The Effectors and Sensory Sites of Formaldehyde-responsive Regulator FrmR and Metal-sensing Variant. <i>Journal of Biological Chemistry</i> , 2016, 291, 19502-19516.	1.6	25
10	Generating a Metal-responsive Transcriptional Regulator to Test What Confers Metal Sensing in Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 19806-19822.	1.6	23
11	Trans-oligomerization of duplicated aminoacyl-tRNA synthetases maintains genetic code fidelity under stress. <i>Nucleic Acids Research</i> , 2015, 43, gkv1020.	6.5	17
12	Metal Preferences and Metallation. <i>Journal of Biological Chemistry</i> , 2014, 289, 28095-28103.	1.6	305
13	A chemical potentiator of copper accumulation used to investigate the iron regulons of <i>Saccharomyces cerevisiae</i> . <i>Molecular Microbiology</i> , 2014, 93, 317-330.	1.2	23
14	Metal specificity of cyanobacterial nickel-responsive repressor <i>InrS</i> : cells maintain zinc and copper below the detection threshold for <i>InrS</i> . <i>Molecular Microbiology</i> , 2014, 92, 797-812.	1.2	28
15	Co(ii)-detection does not follow Kco(ii) gradient: channelling in Co(ii)-sensing. <i>Metallomics</i> , 2013, 5, 352.	1.0	13
16	Bioinorganic chemistry. <i>Dalton Transactions</i> , 2013, 42, 3027.	1.6	7
17	The copper supply pathway to a <i>Salmoneella</i> <i>Cu,Zn</i> -superoxide dismutase (<i>SodCII</i>) involves <i>P1B</i> -type <i>ATPase</i> copper efflux and periplasmic <i>CueP</i> . <i>Molecular Microbiology</i> , 2013, 87, 466-477.	1.2	96
18	Characterization of the Response to Zinc Deficiency in the Cyanobacterium <i>Anabaena</i> sp. Strain PCC 7120. <i>Journal of Bacteriology</i> , 2012, 194, 2426-2436.	1.0	77

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19	Cyanobacterial metallochaperone inhibits deleterious side reactions of copper. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 95-100.	3.3	91
20	Cellular Iron Distribution in Bacillus anthracis. Journal of Bacteriology, 2012, 194, 932-940.	1.0	31
21	Cytosolic Ni(II) Sensor in Cyanobacterium. Journal of Biological Chemistry, 2012, 287, 12142-12151.	1.6	48
22	A platform for copper pumps. Nature, 2011, 475, 41-42.	13.7	8
23	Promiscuity and preferences of metallothioneins: the cell rules. BMC Biology, 2011, 9, 25.	1.7	37
24	Interaction between cyanobacterial copper chaperone Atx1 and zinc homeostasis. Journal of Biological Inorganic Chemistry, 2010, 15, 77-85.	1.1	27
25	NMR structural analysis of the soluble domain of ZiaA-ATPase and the basis of selective interactions with copper metallochaperone Atx1. Journal of Biological Inorganic Chemistry, 2010, 15, 87-98.	1.1	19
26	Functional Complementation and Genetic Deletion Studies of KirBac Channels. Journal of Biological Chemistry, 2010, 285, 40754-40761.	1.6	22
27	Copper Homeostasis in Salmonella Is Atypical and Copper-CueP Is a Major Periplasmic Metal Complex. Journal of Biological Chemistry, 2010, 285, 25259-25268.	1.6	149
28	Structure and Metal Loading of a Soluble Periplasm Cuproprotein. Journal of Biological Chemistry, 2010, 285, 32504-32511.	1.6	31
29	Copper Metallochaperones. Annual Review of Biochemistry, 2010, 79, 537-562.	5.0	611
30	Metalloproteins and metal sensing. Nature, 2009, 460, 823-830.	13.7	1,031
31	How do bacterial cells ensure that metalloproteins get the correct metal?. Nature Reviews Microbiology, 2009, 7, 25-35.	13.6	693
32	Protein-folding location can regulate manganese-binding versus copper- or zinc-binding. Nature, 2008, 455, 1138-1142.	13.7	281
33	A bacterial copper metallothionein. Nature Chemical Biology, 2008, 4, 582-583.	3.9	30
34	FutA2 Is a Ferric Binding Protein from Synechocystis PCC 6803. Journal of Biological Chemistry, 2008, 283, 12520-12527.	1.6	56
35	NMR Structural Analysis of Cadmium Sensing by Winged Helix Repressor CmtR. Journal of Biological Chemistry, 2007, 282, 30181-30188.	1.6	41
36	Understanding How Cells Allocate Metals. , 2007, , 3-35.		14

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37	A Periplasmic Iron-binding Protein Contributes toward Inward Copper Supply. <i>Journal of Biological Chemistry</i> , 2007, 282, 3837-3846.	1.6	46
38	Mycobacterial Cells Have Dual Nickel-Cobalt Sensors. <i>Journal of Biological Chemistry</i> , 2007, 282, 32298-32310.	1.6	91
39	A more discerning zinc exporter. <i>Nature Chemical Biology</i> , 2007, 3, 692-693.	3.9	15
40	Predicting metals sensed by ArsR-SmtB repressors: allosteric interference by a non-effector metal. <i>Molecular Microbiology</i> , 2006, 59, 1341-1356.	1.2	40
41	Understanding How Cells Allocate Metals Using Metal Sensors and Metallochaperones. <i>ChemInform</i> , 2006, 37, no.	0.1	1
42	The delivery of copper for thylakoid import observed by NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8320-8325.	3.3	55
43	BACE1 Cytoplasmic Domain Interacts with the Copper Chaperone for Superoxide Dismutase-1 and Binds Copper*. <i>Journal of Biological Chemistry</i> , 2005, 280, 17930-17937.	1.6	111
44	Understanding How Cells Allocate Metals Using Metal Sensors and Metallochaperones. <i>Accounts of Chemical Research</i> , 2005, 38, 775-783.	7.6	161
45	Solution Structures of a Cyanobacterial Metallochaperone. <i>Journal of Biological Chemistry</i> , 2004, 279, 27502-27510.	1.6	50
46	Chimeras of P1-type ATPases and their transcriptional regulators: contributions of a cytosolic amino-terminal domain to metal specificity. <i>Molecular Microbiology</i> , 2004, 53, 217-227.	1.2	39
47	A novel copper site in a cyanobacterial metallochaperone. <i>Biochemical Journal</i> , 2004, 378, 293-297.	1.7	29
48	Zn, Cu and Co in cyanobacteria: selective control of metal availability. <i>FEMS Microbiology Reviews</i> , 2003, 27, 165-181.	3.9	181
49	Inert Site in a Protein Zinc Cluster: Isotope Exchange by High Resolution Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2003, 125, 3226-3227.	6.6	39
50	Characterization of the Cobaltochelate CbiXL. <i>Journal of Biological Chemistry</i> , 2003, 278, 41900-41907.	1.6	49
51	A Cadmium-Lead-sensing ArsR-SmtB Repressor with Novel Sensory Sites. <i>Journal of Biological Chemistry</i> , 2003, 278, 44560-44566.	1.6	74
52	A Copper Metallochaperone for Photosynthesis and Respiration Reveals Metal-specific Targets, Interaction with an Importer, and Alternative Sites for Copper Acquisition. <i>Journal of Biological Chemistry</i> , 2002, 277, 5490-5497.	1.6	91
53	Surplus Zinc Is Handled by Zym1 Metallothionein and Zhf Endoplasmic Reticulum Transporter in <i>Schizosaccharomyces pombe</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 30394-30400.	1.6	63
54	A Nickel-Cobalt-sensing ArsR-SmtB Family Repressor. <i>Journal of Biological Chemistry</i> , 2002, 277, 38441-38448.	1.6	134

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55	Multiple bacteria encode metallothioneins and SmtA-like zinc fingers. <i>Molecular Microbiology</i> , 2002, 45, 1421-1432.	1.2	162
56	Microbial metallothioneins. <i>Advances in Microbial Physiology</i> , 2001, 44, 183-213.	1.0	87
57	Two Menkes-type ATPases Supply Copper for Photosynthesis in <i>Synechocystis</i> PCC 6803. <i>Journal of Biological Chemistry</i> , 2001, 276, 19999-20004.	1.6	139
58	A metallothionein containing a zinc finger within a four-metal cluster protects a bacterium from zinc toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 9593-9598.	3.3	172
59	Metal Metabolism and Toxicity: Repetitive DNA. , 2000, , 443-463.		3
60	Cobalt-dependent Transcriptional Switching by a Dual-effector MerR-like Protein Regulates a Cobalt-exporting Variant CPx-type ATPase. <i>Journal of Biological Chemistry</i> , 1999, 274, 25827-25832.	1.6	113
61	A ferric-chelate reductase for iron uptake from soils. <i>Nature</i> , 1999, 397, 694-697.	13.7	1,161
62	Metallothionein-like Genes and Phytochelatin in Higher Plants. , 1998, , 398-430.		7
63	A Carboxyl-terminal Cys2/His2-type Zinc-finger Motif in DNA Primase Influences DNA Content in <i>Synechococcus</i> PCC 7942. <i>Journal of Biological Chemistry</i> , 1998, 273, 21246-21252.	1.6	18
64	Coordination of Zn ²⁺ (and Cd ²⁺) by Prokaryotic Metallothionein. <i>Journal of Biological Chemistry</i> , 1998, 273, 22957-22961.	1.6	67
65	An SmtB-like repressor from <i>Synechocystis</i> PCC 6803 regulates a zinc exporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 10728-10733.	3.3	171
66	Metallothionein Gene Regulation in Cyanobacteria. , 1998, , 372-397.		4
67	GUS expression in <i>Arabidopsis</i> directed by 5' regions of the pea metallothionein-like gene PsMTA. <i>Plant Molecular Biology</i> , 1997, 34, 659-668.	2.0	38
68	The froh gene family from <i>Arabidopsis thaliana</i> : Putative iron-chelate reductases. <i>Plant and Soil</i> , 1997, 196, 245-248.	1.8	37
69	Accumulation of metallothionein transcripts in response to iron, copper and zinc: Metallothionein and metal-chelate reductase. <i>Acta Physiologiae Plantarum</i> , 1997, 19, 451-457.	1.0	7
70	HIP1 propagates in cyanobacterial DNA via nucleotide substitutions but promotes excision at similar frequencies in <i>Escherichia coli</i> and <i>Synechococcus</i> PCC 7942. <i>Molecular Microbiology</i> , 1997, 24, 181-189.	1.2	27
71	Metal-gene-interactions in roots: metallothionein-like genes and iron reductases. , 1997, , 117-130.		6
72	The froh gene family from <i>Arabidopsis thaliana</i> : Putative iron-chelate reductases. , 1997, , 191-194.		7

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73	Phenylalanyl-tRNA synthetase gene, pheT, from <i>Synechococcus</i> PCC 7942. <i>Journal of Applied Phycology</i> , 1996, 8, 81-82.	1.5	1
74	rbohA, a rice homologue of the mammalian gp91phox respiratory burst oxidase gene. <i>Plant Journal</i> , 1996, 10, 515-522.	2.8	294
75	Expression of the type 2 metallothionein-like gene MT2 from <i>Arabidopsis thaliana</i> in Zn ²⁺ -metallothionein-deficient <i>Synechococcus</i> PCC 7942: putative role for MT2 in Zn ²⁺ metabolism. <i>Plant Molecular Biology</i> , 1996, 30, 1169-1179.	2.0	60
76	Zn ²⁺ -sensing by the cyanobacterial metallothionein repressor SmtB: different motifs mediate metal-induced protein-DNA dissociation. <i>Nucleic Acids Research</i> , 1996, 24, 3714-3721.	6.5	85
77	Characterization of two cDNAs and identification of two proteins that accumulate in response to cadmium in cadmium-tolerant <i>Datura innoxia</i> (Mill.) cells. <i>Journal of Experimental Botany</i> , 1996, 47, 1019-1024.	2.4	6
78	Cyanobacterial metallothioneins: Biochemistry and molecular genetics. <i>Journal of Industrial Microbiology</i> , 1995, 14, 119-125.	0.9	94
79	Construction of Zn ²⁺ /Cd ²⁺ -tolerant cyanobacteria with a modified metallothionein divergon: Further analysis of the function and regulation of smt. <i>Journal of Industrial Microbiology</i> , 1995, 14, 259-264.	0.9	24
80	Tabulation of thirty-one putative new genes from cyanobacteria. <i>Plant Molecular Biology</i> , 1995, 29, 617-620.	2.0	2
81	Singular over-representation of an octameric palindrome, HIP1, in DNA from many cyanobacteria. <i>Nucleic Acids Research</i> , 1995, 23, 729-735.	6.5	78
82	Isolation of a prokaryotic metallothionein locus and analysis of transcriptional control by trace metal ions. <i>Molecular Microbiology</i> , 1993, 7, 177-187.	1.2	216
83	Deletion within the metallothionein locus of cadmium-tolerant <i>Synechococcus</i> PCC 6301 involving a highly iterated palindrome (HIP1). <i>Molecular Microbiology</i> , 1993, 7, 189-195.	1.2	77
84	SmtB is a metal-dependent repressor of the cyanobacterial metallothionein gene smtA: identification of a Zn inhibited DNA-protein complex. <i>Nucleic Acids Research</i> , 1993, 21, 921-925.	6.5	165
85	Amplification and rearrangement of a prokaryotic metallothionein locus smt in <i>Synechococcus</i> PCC 6301 selected for tolerance to cadmium. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1992, 248, 273-281.	1.2	47
86	Cyanobacterial metallothionein gene expressed in <i>Escherichia coli</i> Metal-binding properties of the expressed protein. <i>FEBS Letters</i> , 1992, 303, 159-163.	1.3	63
87	Genes with similarity to metallothionein genes and copper, zinc ligands in <i>Pisum sativum</i> L.. <i>Plant and Soil</i> , 1992, 146, 291-298.	1.8	21
88	Expression of the pea metallothionein-like gene PsMT A in <i>Escherichia coli</i> and <i>Arabidopsis thaliana</i> and analysis of trace metal ion accumulation: Implications for PsMT A function. <i>Plant Molecular Biology</i> , 1992, 20, 1019-1028.	2.0	190
89	Expression of the pea gene PsMT A in <i>E. coli</i> Metal-binding properties of the expressed protein. <i>FEBS Letters</i> , 1991, 292, 48-52.	1.3	116
90	Low molecular weight metal complexes in the freshwater moss <i>Rhynchostegium riparioides</i> exposed to elevated concentrations of Zn, Cu, Cd and Pb in the laboratory and field. <i>Environmental and Experimental Botany</i> , 1991, 31, 359-366.	2.0	32

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91	Prokaryotic metallothionein gene characterization and expression: chromosome crawling by ligation-mediated PCR. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1990, 242, 241-247.	1.2	79
92	A gene from pea (<i>Pisum sativum</i> L.) with homology to metallothionein genes. <i>FEBS Letters</i> , 1990, 262, 29-32.	1.3	114
93	Mechanisms of Trace Metal Tolerance in Plants. , 1990, , 231-255.		30
94	Poly(¹³ C-glutamylcysteinyl)glycine Synthesis in <i>Datura innoxia</i> and Binding with Cadmium. <i>Plant Physiology</i> , 1989, 89, 700-706.	2.3	116
95	Inhibition of NaCl-Induced Proline Biosynthesis by Exogenous Proline in Halophilic <i>Distichlis spicata</i> Suspension Cultures. <i>Journal of Experimental Botany</i> , 1989, 40, 225-232.	2.4	16
96	Effects of cadmium on gene expression in cadmium-tolerant and cadmium-sensitive <i>Datura innoxia</i> cells. <i>Plant Molecular Biology</i> , 1989, 12, 487-497.	2.0	27
97	Algal metallothioneins: secondary metabolites and proteins. <i>Journal of Applied Phycology</i> , 1989, 1, 5-18.	1.5	91
98	Biosynthesis of poly(¹³ C-glutamylcysteinyl)glycines in cadmium-tolerant <i>Datura innoxia</i> (Mill.) cells. <i>Plant Science</i> , 1988, 56, 197-204.	1.7	51
99	Poly(γ -glutamylcysteinyl)glycine: its role in cadmium resistance in plant cells.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987, 84, 6619-6623.	3.3	112
100	Characterization of Metal Binding Peptides from Cadmium Resistant Plant Cells. <i>Exs</i> , 1987, 52, 323-327.	1.4	8
101	Involvement of a metallothionein-like copper complex in the mechanism of copper tolerance in <i>Mimulus guttatus</i> . <i>Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character</i> , 1986, 227, 493-501.	1.8	29
102	Isolation of a copper complex and its rate of appearance in roots of <i>Mimulus guttatus</i> . <i>Planta</i> , 1986, 169, 192-197.	1.6	20
103	"Metallothionein-like" metal complexes in angiosperms; their structure and function. <i>Physiologia Plantarum</i> , 1986, 67, 499-506.	2.6	92