Marc Solioz

List of Publications by Year
in descending order

116 papers	7,177 citations	76196 40 h-index	58464 82 g-index
118 all docs	118 docs citations	118 times ranked	6929 citing authors

#	Article	IF	Citations
1	Metallic Copper as an Antimicrobial Surface. Applied and Environmental Microbiology, 2011, 77, 1541-1547.	1.4	1,205
2	CPx-type ATPases: a class of P-type ATPases that pump heavy metals. Trends in Biochemical Sciences, 1996, 21, 237-241.	3.7	445
3	Role of Copper Oxides in Contact Killing of Bacteria. Langmuir, 2013, 29, 16160-16166.	1.6	277
4	Copper and Human Health: Biochemistry, Genetics, and Strategies for Modeling Dose-response Relationships. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2007, 10, 157-222.	2.9	276
5	Copper homeostasis inEnterococcus hirae. FEMS Microbiology Reviews, 2003, 27, 183-195.	3.9	273
6	Copper and Silver Transport by CopB-ATPase in Membrane Vesicles of Enterococcus hirae. Journal of Biological Chemistry, 1995, 270, 9217-9221.	1.6	246
7	Intracellular copper routing: the role of copper chaperones. Trends in Biochemical Sciences, 2000, 25, 29-32.	3.7	234
8	Response of Gram-positive bacteria to copper stress. Journal of Biological Inorganic Chemistry, 2010, 15, 3-14.	1.1	183
9	A Role for Low Hepatic Copper Concentrations in Nonalcoholic Fatty Liver Disease. American Journal of Gastroenterology, 2010, 105, 1978-1985.	0.2	164
10	Two trans-Acting Metalloregulatory Proteins Controlling Expression of the Copper-ATPases of Enterococcus hirae*. Journal of Biological Chemistry, 1995, 270, 4349-4354.	1.6	163
11	TheEnterococcus hiraecopper chaperone CopZ delivers copper(I) to the CopY repressor. FEBS Letters, 1999, 445, 27-30.	1.3	145
12	Killing of Bacteria by Copper Surfaces Involves Dissolved Copper. Applied and Environmental Microbiology, 2010, 76, 4099-4101.	1.4	142
13	Contact Killing of Bacteria on Copper Is Suppressed if Bacterial-Metal Contact Is Prevented and Is Induced on Iron by Copper Ions. Applied and Environmental Microbiology, 2013, 79, 2605-2611.	1.4	142
14	NMR Structure and Metal Interactions of the CopZ Copper Chaperone. Journal of Biological Chemistry, 1999, 274, 22597-22603.	1.6	116
15	Copper Transfer from the Cu(I) Chaperone, CopZ, to the Repressor, Zn(II)CopY:Â Metal Coordination Environments and Protein Interactionsâ€. Biochemistry, 2002, 41, 5822-5829.	1.2	116
16	Induction of the Putative Copper ATPases, CopA and Copb, of Enterococcus hirae by Ag+ and Cu2+, and Ag+ Extrusion by CopB. Biochemical and Biophysical Research Communications, 1994, 202, 44-48.	1.0	105
17	The gene transfer agent of Rhodopseudomonas capsulata,. Archives of Biochemistry and Biophysics, 1977, 181, 300-307.	1.4	104
18	The Mitochondrial COB Region in Yeast Codes for Apocytochrome b and Is Mosaic. FEBS Journal, 1979, 94, 451-464.	0.2	103

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19	Copper pumping ATPases: Common concepts in bacteria and man. FEBS Letters, 1994, 346, 44-47.	1.3	103
20	Dicyclohexylcarbodiimide as a probe for proton translocating enzymes. Trends in Biochemical Sciences, 1984, 9, 309-312.	3.7	101
21	An ATPase Operon Involved in Copper Resistance by Enterococcus hirae. Annals of the New York Academy of Sciences, 1992, 671, 484-486.	1.8	98
22	CopY Is a Copper-inducible Repressor of the Enterococcus hirae Copper ATPases. Journal of Biological Chemistry, 1997, 272, 8932-8936.	1.6	96
23	Physicochemical properties of copper important for its antibacterial activity and development of a unified model. Biointerphases, 2016, 11, 018902.	0.6	92
24	How reliable and robust are current biomarkers for copper status?. British Journal of Nutrition, 2007, 98, 676-83.	1.2	91
25	Development and characterization of an animal model of carnitine deficiency. FEBS Journal, 2001, 268, 1876-1887.	0.2	82
26	Characterization of the CopR Regulon of <i>Lactococcus lactis</i> IL1403. Journal of Bacteriology, 2008, 190, 536-545.	1.0	71
27	Overexpression of Bax sensitizes human pancreatic cancer cells to apoptosis induced by chemotherapeutic agents. Cancer Chemotherapy and Pharmacology, 2002, 49, 504-510.	1.1	66
28	Measurement of cytoplasmic copper, silver, and gold with a lux biosensor shows copper and silver, but not gold, efflux by the CopA ATPase of Escherichia coli. FEBS Letters, 2003, 546, 391-394.	1.3	66
29	Interaction of the CopZ Copper Chaperone with the CopA Copper ATPase of Enterococcus hirae Assessed by Surface Plasmon Resonance. Biochemical and Biophysical Research Communications, 2001, 288, 172-177.	1.0	61
30	Bcl-xl antisense oligonucleotides induce apoptosis and increase sensitivity of pancreatic cancer cells to gemcitabine. International Journal of Cancer, 2001, 94, 268-274.	2.3	60
31	Structureâ€"function analysis of purified Enterococcus hirae CopB copper ATPase: effect of Menkes/Wilson disease mutation homologues. Biochemical Journal, 2001, 357, 217-223.	1.7	58
32	Na/H antiporter mRNA expression in single nephron segments of rat kidney cortex.. Journal of Clinical Investigation, 1991, 88, 783-788.	3.9	56
33	Copper Reduction and Contact Killing of Bacteria by Iron Surfaces. Applied and Environmental Microbiology, 2015, 81, 6399-6403.	1.4	54
34	The copper-inducible ComR (YcfQ) repressor regulates expression of ComC (YcfR), which affects copper permeability of the outer membrane of Escherichia coli. BioMetals, 2012, 25, 33-43.	1.8	53
35	CopY-like Copper Inducible Repressors are Putative â€˜Winged Helixâ€™ Proteins. BioMetals, 2006, 19, 61-70.	1.8	51
36	Characterization of a Cytochrome b558 Ferric/Cupric Reductase from Rabbit Duodenal Brush Border Membranes. Biochemical and Biophysical Research Communications, 2002, 291, 220-225.	1.0	49

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37	Laser cladding of stainless steel with a copperâ€“silver alloy to generate surfaces of high antimicrobial activity. Applied Surface Science, 2014, 320, 195-199.	3.1	48
38	Killing of bacteria by copper, cadmium, and silver surfaces reveals relevant physicochemical parameters. Biointerphases, 2017, 12, 020301.	0.6	46
39	Purification and Functional Analysis of the Copper ATPase CopA of Enterococcus hirae. Biochemical and Biophysical Research Communications, 2001, 280, 713-719.	1.0	44
40	Interaction kinetics of the copper-responsive CopY repressor with the cop promoter of Enterococcus hirae. Journal of Biological Inorganic Chemistry, 2004, 9, 396-402.	1.1	41
41	How Bacteria Handle Copper. , 2007, , 259-285.		41
42	Non-enzymic copper reduction by menaquinone enhances copper toxicity in Lactococcus lactis IL1403. Microbiology (United Kingdom), 2013, 159, 1190-1197.	0.7	41
43	Structureâ€'function analysis of purified Enterococcus hirae CopB copper ATPase: effect of Menkes/Wilson disease mutation homologues. Biochemical Journal, 2001, 357, 217.	1.7	39
44	Copper Chaperone Cycling and Degradation in the Regulation of theCop Operon of Enterococcus Hirae. BioMetals, 2005, 18, 407-412.	1.8	39
45	Dicyclohexylcarbodiimide Does not Inhibit Proton Pumping by Cytochrome c Oxidase of Paracoccus denitrificans. FEBS Journal, 1983, 134, 33-37.	0.2	38
46	The Enterococcus hirae paradigm of copper homeostasis: copper chaperone turnover, interactions, and transactions. BioMetals, 2003, 16, 137-143.	1.8	38
47	Copper Induction of Lactate Oxidase of Lactococcus lactis : a Novel Metal Stress Response. Journal of Bacteriology, 2007, 189, 5947-5954.	1.0	38
48	Copper-induced Proteolysis of the CopZ Copper Chaperone ofEnterococcus hirae. Journal of Biological Chemistry, 2001, 276, 47822-47827.	1.6	37
49	Tetrathiomolybdate inhibition of theEnterococcus hiraeCopB copper ATPase. FEBS Letters, 2001, 507, 367-370.	1.3	34
50	ATP-driven copper transport across the intestinal brush border membrane. Biochemical and Biophysical Research Communications, 2005, 330, 645-652.	1.0	34
51	Copper and Bacteria. Springer Briefs in Molecular Science, 2018, , .	0.1	34
52	A protein of unusual composition fromEnterococcus faecium. Nucleic Acids Research, 1989, 17, 6724-6724.	6.5	33
53	Genome Sequence of Desulfosporosinus sp. OT, an Acidophilic Sulfate-Reducing Bacterium from Copper Mining Waste in Norilsk, Northern Siberia. Journal of Bacteriology, 2011, 193, 6104-6105.	1.0	33
54	Topical application of synthetic pyrethroids to cattle as a source of persistent environmental contamination. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 1997, 32, 729-739.	0.7	32

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55	Copper Homeostasis in Enterococcus hirae. Advances in Experimental Medicine and Biology, 1999, 448, 255-264.	0.8	32
56	Surface structure influences contact killing of bacteria by copper. MicrobiologyOpen, 2014, 3, 327-332.	1.2	31
57	Structure and Function of CinD (YtjD) of <i>Lactococcus lactis</i> , a Copper-Induced Nitroreductase Involved in Defense against Oxidative Stress. Journal of Bacteriology, 2010, 192, 4172-4180.	1.0	30
58	Efficient electrotransformation of Enterococcus hirae with a new Enterococcus-Escherichia coli shuttle vector. Biochimie, 1990, 72, 279-283.	1.3	29
59	<i>Lactococcus lactis</i> HemW (HemN) is a haem-binding protein with a putative role in haem trafficking. Biochemical Journal, 2012, 442, 335-343.	1.7	27
60	Acylphosphate formation by the Menkes copper ATPase. FEBS Letters, 1997, 412, 165-168.	1.3	25
61	Structural model of the CopA copper ATPase of Enterococcus hirae based on chemical cross-linking. BioMetals, 2009, 22, 363-375.	1.8	25
62	Effects of Promoter Mutations on the in Vivo Regulation of the cop Operon of Enterococcus hirae by Copper(I) and Copper(II). Biochemical and Biophysical Research Communications, 1999, 259, 443-449.	1.0	24
63	Efficient transformation ofLactococcus lactis IL1403 and generation of knock-out mutants by homologous recombination. Journal of Basic Microbiology, 2007, 47, 281-286.	1.8	24
64	Bacterial copper transport. Advances in Protein Chemistry, 2002, 60, 93-121.	4.4	22
65	The copper-responsive repressor CopR of Lactococcus lactis is a â€˜winged helixâ€™ protein. Biochemical Journal, 2009, 417, 493-499.	1.7	21
66	Assessment of uncoupling by amiloride analogs. Biochemistry, 1992, 31, 8055-8058.	1.2	20
67	Bacterial genetics by electric shock. Trends in Biochemical Sciences, 1990, 15, 175-177.	3.7	19
68	Phosphoenzyme formation by purified, reconstituted copper ATPase ofEnterococcus hirae. FEBS Letters, 1996, 399, 143-146.	1.3	19
69	Betaine homocysteine methyltransferase: gene cloning and expression analysis in rat liver cirrhosis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2003, 1638, 29-34.	1.8	19
70	Improved protocol for chromatofocusing on the ProteomeLab PF2D. Proteomics, 2006, 6, 5096-5098.	1.3	19
71	How cells handle copper: A view from microbes. Journal of Trace Elements in Experimental Medicine, 1999, 12, 347-360.	0.8	16
72	Letter to the Editor and Reply: Toxicity of Copper in Drinking Water. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2010, 13, 449-459.	2.9	16

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73	A copperâ€induced quinone degradation pathway provides protection against combined copper/quinone stress in <scp><i>L</i></scp><i>actococcus lactis</i>â€…<scp>IL</scp>1403. Molecular Microbiology, 2015, 95, 645-659.	1.2	16
74	Fixed versus titrated interferon-Î±2B in chronic hepatitis C. A randomized controlled multicenter trial. Journal of Hepatology, 1996, 25, 275-282.	1.8	15
75	Whole animal copper flux assessed by positron emission tomography in the Long â€“ Evans cinnamon rat â€“ a feasibility study. BioMetals, 2005, 18, 83-88.	1.8	15
76	Mechanism of Attenuation of Uranyl Toxicity by Glutathione in Lactococcus lactis. Applied and Environmental Microbiology, 2016, 82, 3563-3571.	1.4	15
77	Dipolar Relaxation Dynamics at the Active Site of an ATPase Regulated by Membrane Lateral Pressure. Angewandte Chemie - International Edition, 2017, 56, 1269-1272.	7.2	15
78	Hepatic mitochondrial proliferation in rats with secondary biliary cirrhosis: Time course and mechanisms. Hepatology, 1997, 26, 386-391.	3.6	14
79	Genome Sequence of Desulfovibrio sp. A2, a Highly Copper Resistant, Sulfate-Reducing Bacterium Isolated from Effluents of a Zinc Smelter at the Urals. Journal of Bacteriology, 2011, 193, 6793-6794.	1.0	14
80	Genome Sequence of Enterococcus hirae (Streptococcus faecalis) ATCC 9790, a Model Organism for the Study of Ion Transport, Bioenergetics, and Copper Homeostasis. Journal of Bacteriology, 2012, 194, 5126-5127.	1.0	14
81	Epidermal growth factor is decreased in liver of rats with biliary cirrhosis but does not act as paracrine growth factor immediately after hepatectomy. Journal of Hepatology, 2000, 33, 275-281.	1.8	13
82	Responses of Lactic Acid Bacteria to Heavy Metal Stress. , 2011, , 163-195.		13
83	THE ATP-DEPENDENT Ca2+-PUMPING SYSTEM OF Streptococcus faecium. Annals of the New York Academy of Sciences, 1982, 402, 422-432.	1.8	12
84	Electrogenic transport by the Enterococcus hirae ATPase. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1017, 221-228.	0.5	11
85	Purification and functional reconstitution of the human Wilson copper ATPase, ATP7B. FEBS Letters, 2005, 579, 3589-3595.	1.3	11
86	The stress response protein Gls24 is induced by copper and interacts with the CopZ copper chaperone ofEnterococcus hirae. FEMS Microbiology Letters, 2010, 302, 69-75.	0.7	10
87	Application of mRNA Differential Display to Liver Cirrhosis: Reduced Fetuin Expression in Biliary Cirrhosis in the Rat. Biochemical and Biophysical Research Communications, 1996, 225, 377-383.	1.0	8
88	Copper Oxidation State and Mycobacterial Infection. Mycobacterial Diseases: Tuberculosis & Leprosy, 2016, 6, .	0.1	8
89	Treatment by serum up-conversion nanoparticles in the fluoride matrix changes the mechanism of cell death and the elasticity of the membrane. Micron, 2016, 90, 23-32.	1.1	8
90	Copper Homeostasis in Gram-Negative Bacteria. Springer Briefs in Molecular Science, 2018, , 49-80.	0.1	8

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91	Xenon-inhibition of the MscL mechano-sensitive channel and the CopB copper ATPase under different conditions suggests direct effects on these proteins. PLoS ONE, 2018, 13, e0198110.	1.1	8
92	Expression of the Human Menkes ATPase in Xenopus laevis Oocytes. Biological Chemistry, 2001, 382, 711-4.	1.2	7
93	Increased mycelial biomass production by Lentinula edodes intermittently illuminated by green light emitting diodes. Biotechnology Letters, 2014, 36, 2283-2289.	1.1	7
94	Evaluation of chocolate as a source of dietary copper. European Food Research and Technology, 2014, 238, 1063-1066.	1.6	6
95	The copper rush of the nineties. Metallomics, 2016, 8, 824-830.	1.0	6
96	Copper resistance and its regulation in the sulfate-reducing bacterium Desulfosporosinus sp. OT. Microbiology (United Kingdom), 2016, 162, 684-693.	0.7	6
97	Desulfovibrio DA2_CueO is a novel multicopper oxidase with cuprous, ferrous and phenol oxidase activity. Microbiology (United Kingdom), 2017, 163, 1229-1236.	0.7	6
98	NapA Na+/H+Antiporter as a Sodium Extrusion System Supplementary to the Vacuolar Na+-ATPase inEnterococcus hirae. Bioscience, Biotechnology and Biochemistry, 1998, 62, 2371-2374.	0.6	5
99	Regulation and structure of YahD, a copper-inducible Î±/Î² serine hydrolase of Lactococcus lactis IL1403. FEMS Microbiology Letters, 2011, 314, 57-66.	0.7	5
100	Low copper-2 intake in Switzerland does not result in lower incidence of Alzheimerâ€™s disease and contradicts the Copper-2 Hypothesis. Experimental Biology and Medicine, 2020, 245, 177-179.	1.1	5
101	[53] Purification of the ATPase of Streptococcus faecalis. Methods in Enzymology, 1988, 157, 680-689.	0.4	4
102	Copper Homeostasis by Cpx-Type ATPases. Advances in Molecular and Cell Biology, 1997, , 167-203.	0.1	4
103	Copper Toxicity. Springer Briefs in Molecular Science, 2018, , 11-19.	0.1	4
104	Copper Disposition in Bacteria. , 2019, , 101-113.		4
105	Arginine modification with butanedione inhibits the potassium ATPase of Streptococcusfaecalis. Biochemical and Biophysical Research Communications, 1987, 142, 107-112.	1.0	3
106	Bacterial Copper Transport. , 0, , 361-376.		3
107	Dipolar Relaxation Dynamics at the Active Site of an ATPase Regulated by Membrane Lateral Pressure. Angewandte Chemie, 2017, 129, 1289-1292.	1.6	3
108	Disorders of Copper, Zinc and Iron Metabolism. , 2003, , 631-658.		3

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109	Interaction of Copper-Binding Proteins from Enterococcus hirae. , 0, , 177-186.		3
110	How reliable and robust are current biomarkers for copper status? â€“ reply by Danzeisen et al.. British Journal of Nutrition, 2008, 100, 1343-1344.	1.2	2
111	Molecular Hardware of Copper Homeostasis in Enterococcus hirae. , 0, , 527-542.		2
112	Effect of Tree Species on Enzyme Secretion by the Shiitake Medicinal Mushroom, Lentinus edodes (Agaricomycetes). International Journal of Medicinal Mushrooms, 2016, 18, 637-644.	0.9	2
113	Copper Homeostasis in Gram-Positive Bacteria. Springer Briefs in Molecular Science, 2018, , 21-48.	0.1	1
114	Copper and silver homeostasis by Escherichia coli assessed with a biosensor. Journal of Inorganic Biochemistry, 2003, 96, 235.	1.5	0
115	Copperâ€"A Modern Bioelement. Springer Briefs in Molecular Science, 2018, , 1-9.	0.1	0
116	Development and characterization of an animal model of carnitine deficiency. FEBS Journal, 2001, 268, 1876-1887.	0.2	0