Simon Silver

List of Publications by Year
in descending order

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116 papers	12,576 citations	41339 49 h-index	33889 99 g-index
118 all docs	118 docs citations	118 times ranked	9843 citing authors

#	Article	IF	Citations
1	BACTERIAL HEAVY METAL RESISTANCE: New Surprises. Annual Review of Microbiology, 1996, 50, 753-789.	7.3	1,129
2	Bacterial silver resistance: molecular biology and uses and misuses of silver compounds. FEMS Microbiology Reviews, 2003, 27, 341-353.	8.6	1,084
3	Silver as biocides in burn and wound dressings and bacterial resistance to silver compounds. Journal of Industrial Microbiology and Biotechnology, 2006, 33, 627-634.	3.0	622
4	Microbial arsenic: from geocycles to genes and enzymes. FEMS Microbiology Reviews, 2002, 26, 311-325.	8.6	578
5	Bacterial resistances to toxic metal ions - a review. Gene, 1996, 179, 9-19.	2.2	538
6	Genes and Enzymes Involved in Bacterial Oxidation and Reduction of Inorganic Arsenic. Applied and Environmental Microbiology, 2005, 71, 599-608.	3.1	530
7	Ion efflux systems involved in bacterial metal resistances. Journal of Industrial Microbiology, 1995, 14, 186-199.	0.9	462
8	Molecular basis for resistance to silver cations in Salmonella. Nature Medicine, 1999, 5, 183-188.	30.7	435
9	Antimicrobial silver: uses, toxicity and potential for resistance. BioMetals, 2013, 26, 609-621.	4.1	429
10	A bacterial view of the periodic table: genes and proteins for toxic inorganic ions. Journal of Industrial Microbiology and Biotechnology, 2005, 32, 587-605.	3.0	398
11	Cadmium resistance from Staphylococcus aureus plasmid pI258 cadA gene results from a cadmium-efflux ATPase.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 3544-3548.	7.1	344
12	Resistance to arsenic compounds in microorganisms. FEMS Microbiology Reviews, 1994, 15, 355-367.	8.6	286
13	Molecular Genetics: Silver as a biocide: Will resistance become a problem?. Nature Biotechnology, 1998, 16, 888-888.	17.5	245
14	Mercury Resistance in a Plasmid-Bearing Strain ofEscherichia coli. Journal of Bacteriology, 1972, 112, 1228-1236.	2.2	216
15	Mechanism of Action of Phenethyl Alcohol: Breakdown of the Cellular Permeability Barrier. Journal of Bacteriology, 1967, 93, 560-566.	2.2	216
16	Volatilisation of mercury and organomercurials determined by inducible R-factor systems in enteric bacteria. Nature, 1974, 251, 335-337.	27.8	210
17	Effects of Halides on Plasmid-Mediated Silver Resistance in Escherichia coli. Applied and Environmental Microbiology, 1998, 64, 5042-5045.	3.1	185
18	Bacterial resistance ATPases: primary pumps for exporting toxic cations and anions. Trends in Biochemical Sciences, 1989, 14, 76-80.	7.5	178

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19	Mining with Microbes. Bio/technology, 1995, 13, 773-778.	1.5	174
20	Molecular evolution of an arsenate detoxification pathway by DNA shuffling. Nature Biotechnology, 1997, 15, 436-438.	17.5	167
21	Bacterial resistance mechanisms for heavy metals of environmental concern. Journal of Industrial Microbiology, 1995, 14, 61-75.	0.9	158
22	The nucleotide sequence of the mercuric resistance operons of plasmid R100 and transposon Tn501: further evidence for mer genes which enhance the activity of the mercuric ion detoxification system. Molecular Genetics and Genomics, 1986, 202, 143-151.	2.4	156
23	Mercury and Organomercurial Resistances Determined by Plasmids in Staphylococcus aureus. Journal of Bacteriology, 1977, 132, 197-208.	2.2	153
24	Mercuric ion-resistance operons of plasmid R100 and transposon Tn501: the beginning of the operon including the regulatory region and the first two structural genes.. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 5975-5979.	7.1	152
25	Diversity of silver resistance genes in IncH incompatibility group plasmids. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	143
26	Arsenate Reductase of Staphylococcus aureus Plasmid pI258. Biochemistry, 1994, 33, 7294-7299.	2.5	141
27	Genes for all metals--a bacterial view of the Periodic Table. Journal of Industrial Microbiology and Biotechnology, 1998, 20, 1-12.	3.0	137
28	Arsenate Reduction: Thiol Cascade Chemistry with Convergent Evolution. Journal of Molecular Biology, 2006, 362, 1-17.	4.2	137
29	Mercury and Organomercurial Resistances Determined by Plasmids in Pseudomonas. Journal of Bacteriology, 1977, 132, 186-196.	2.2	132
30	Insights into the iron and sulfur energetic metabolism of Acidithiobacillus ferrooxidans by microarray transcriptome profiling. Hydrometallurgy, 2006, 83, 263-272.	4.3	112
31	Plasmid chromate resistance and chromate reduction. Plasmid, 1992, 27, 65-71.	1.4	111
32	Mercuric reductase structural genes from plasmid R100 and transposon Tn501: functional domains of the enzyme. Gene, 1985, 34, 253-262.	2.2	108
33	Cation Fluxes and Permeability Changes Accompanying Bacteriophage Infection of Escherichia coli. Journal of Virology, 1968, 2, 763-771.	3.4	107
34	Methylammonium uptake by Escherichia coli: Evidence for a bacterial NH4+ transport system. Biochemical and Biophysical Research Communications, 1977, 75, 1133-1139.	2.1	98
35	Unified Nomenclature for Genes Involved in Prokaryotic Aerobic Arsenite Oxidation. Journal of Bacteriology, 2012, 194, 207-208.	2.2	91
36	Linkage of Mercury, Cadmium, and Arsenate and Drug Resistance in Clinical Isolates of Pseudomonas aeruginosa. Applied and Environmental Microbiology, 1977, 33, 975-976.	3.1	89

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37	Manganese accumulation by Escherichia coli: Evidence for a specific transport system. Biochemical and Biophysical Research Communications, 1969, 34, 640-645.	2.1	87
38	Bacterial resistance and detoxification of heavy metals. Enzyme and Microbial Technology, 1984, 6, 530-537.	3.2	85
39	Manganese Active Transport in Escherichia coli. Journal of Bacteriology, 1970, 104, 1299-1306.	2.2	85
40	Manganese Transport in Bacillus subtilis W23 During Growth and Sporulation. Journal of Bacteriology, 1973, 113, 1363-1372.	2.2	78
41	Human Menkes X-chromosome disease and the staphylococcal cadmium-resistance ATPase: a remarkable similarity in protein sequences. Molecular Microbiology, 1993, 10, 7-12.	2.5	77
42	Cloning and expression of R-factor mediated arsenate resistance in Escherichia coli. Molecular Genetics and Genomics, 1983, 191, 421-426.	2.4	73
43	Orphan enzyme or patriarch of a new tribe: the arsenic resistance ATPase of bacterial plasmids. Molecular Microbiology, 1993, 8, 637-642.	2.5	73
44	Plasmid-determined metal resistance mechanisms: Range and overview. Plasmid, 1992, 27, 1-3.	1.4	69
45	Generation of Mercury-Hyperaccumulating Plants through Transgenic Expression of the Bacterial Mercury Membrane Transport Protein MerC. Transgenic Research, 2006, 15, 615-625.	2.4	66
46	Functional analysis of gapped microbial genomes: Amino acid metabolism of Thiobacillus ferrooxidans. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 3509-3514.	7.1	62
47	Magnesium Transport in Escherichia coli. Journal of Biological Chemistry, 1971, 246, 569-576.	3.4	59
48	Manganese-Resistant Mutants of Escherichia coli : Physiological and Genetic Studies. Journal of Bacteriology, 1972, 110, 186-195.	2.2	57
49	The arsenical resistance operon of IncN plasmid R46. FEMS Microbiology Letters, 1996, 139, 149-153.	1.8	55
50	Acridine sensitivity of bacteriophage T2: A virus gene affecting cell permeability. Journal of Molecular Biology, 1967, 29, 191-202.	4.2	52
51	Genetic locus determining resistance to phage BF23 and colicins E1, E2and E3inEscherichia coli. Genetical Research, 1972, 19, 305-312.	0.9	50
52	Diversity of mercury resistance determinants amongBacillusstrains isolated from sediment of Minamata Bay. FEMS Microbiology Letters, 2003, 223, 73-82.	1.8	50
53	Regulation of Manganese Accumulation and Exchange in Bacillus subtilis W23. Journal of Bacteriology, 1973, 113, 1373-1380.	2.2	49
54	Microarray and bioinformatic analyses suggest models for carbon metabolism in the autotroph Acidithiobacillus ferrooxidans. Hydrometallurgy, 2006, 83, 273-280.	4.3	48

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55	Resistance to Ag(I) Cations in Bacteria: Environments, Genes and Proteins. Metal-Based Drugs, 1999, 6, 315-320.	3.8	46
56	Evolution of an Ion-Translocating ATPase. Annals of the New York Academy of Sciences, 1992, 671, 257-272.	3.8	43
57	Down regulation of the mercury resistance operon by the most promoter-distal gene merD. Molecular Genetics and Genomics, 1989, 220, 69-72.	2.4	42
58	Magnesium Transport in Bacillus subtilis W23 During Growth and Sporulation. Journal of Bacteriology, 1974, 117, 1224-1230.	2.2	38
59	Aspects of the predicted physiology of Acidithiobacillus ferrooxidans deduced from an analysis of its partial genome sequence. Hydrometallurgy, 2003, 71, 97-105.	4.3	34
60	Functional Dissection of a Mercuric Ion Transporter, MerC, fromAcidithiobacillus ferrooxidans. Bioscience, Biotechnology and Biochemistry, 2005, 69, 1394-1402.	1.3	34
61	Mercury Resistance in Bacillus cereus RC607: Transcriptional Organization and Two New Open Reading Frames. Journal of Bacteriology, 1999, 181, 7080-7086.	2.2	34
62	Acridine Binding by Escherichia coli : p H Dependency and Strain Differences. Journal of Bacteriology, 1968, 95, 333-339.	2.2	34
63	Transfer of Deoxyribonucleic Acid Accompanying the Transmission of Colicinogenic Properties by Cell Mating. Nature, 1962, 195, 873-874.	27.8	33
64	Effects of gold(I) antiarthritic drugs and related compounds on Pseudomonas putida. Journal of Inorganic Biochemistry, 1992, 46, 129-142.	3.5	31
65	Bacterial Transformations of and Resistances to Heavy Metals. , 1984, 28, 23-46.		30
66	Effects of Intracellular Glutathione on Sensitivity ofEscherichia colito Mercury and Arsenite. Biochemical and Biophysical Research Communications, 1998, 242, 67-70.	2.1	29
67	Mercury resistance transposons in Bacilli strains from different geographical regions. FEMS Microbiology Letters, 2016, 363, fnw013.	1.8	29
68	Bacterial Interactions with Mineral Cations and Anions: Good Ions and Bad. , 1983, , 439-457.		27
69	Mercuric Ion Uptake byEscherichia coliCells ProducingThiobacillus ferrooxidansMerC. Bioscience, Biotechnology and Biochemistry, 1996, 60, 1289-1292.	1.3	24
70	Draft Genome Sequence of Alcaligenes faecalis subsp.faecalisNCIB 8687 (CCUG 2071). Journal of Bacteriology, 2012, 194, 5153-5153.	2.2	24
71	Mercury Microbiology: Resistance Systems, Environmental Aspects, Methylation, and Human Health. , 2007, , 357-370.		21
72	Mechanisms of Plasmid-Determined Heavy Metal Resistances. , 1981, , 179-189.		21

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73	EFFECTS OF POLYAMINES ON MEMBRANE PERMEABILITY. Annals of the New York Academy of Sciences, 1970, 171, 838-862.	3.8	20
74	Exploiting heavy metal resistance systems in bioremediation. Research in Microbiology, 1994, 145, 61-67.	2.1	20
75	The mer operon of a mercury-resistant Pseudoalteromonas haloplanktis strain isolated from Minamata Bay, Japan. Applied Microbiology and Biotechnology, 2001, 56, 736-741.	3.6	20
76	Bacterial resistance to toxic metals determined by extrachromosomal R factors. International Biodeterioration and Biodegradation, 2001, 48, 263-281.	3.9	20
77	Bacterial Magnesium, Manganese, and Zinc Transport. , 1987, , 165-180.		19
78	Action of Steroidal Diamines on Active Transport and Permeability Properties of Escherichia coli. Journal of Bacteriology, 1968, 96, 338-345.	2.2	18
79	Characterization of two regulatory genes of the mercury resistance determinants from Tn MERI1 by luciferase-based examination. Gene, 2002, 301, 13-20.	2.2	17
80	Uptake of Mg2+ by KB cells. Biochimica Et Biophysica Acta - Biomembranes, 1971, 225, 71-76.	2.6	16
81	Promoters and transcription of the plasmid-mediated citrate-utilization system in Escherichia coli. Gene, 1988, 68, 181-192.	2.2	16
82	The First Cell. Advances in Microbial Physiology, 2005, 50, 227-259.	2.4	16
83	DNA sequence analysis of bacterial toxic heavy metal resistances. Biological Trace Element Research, 1989, 21, 145-163.	3.5	15
84	Draft Genome of Halomonas Species Strain GFAJ-1 (ATCC BAA-2256). Journal of Bacteriology, 2012, 194, 1835-1836.	2.2	15
85	Novel expansion of living chemistry or just a serious mistake?. FEMS Microbiology Letters, 2011, 315, 79-80.	1.8	14
86	Laboratory-acquired lethal infections by potential bioweapons pathogens including Ebola in 2014. FEMS Microbiology Letters, 2015, 362, 1-6.	1.8	14
87	Reversible alterations in membrane permeability of escherichiacoli induced by a steroidal diamine, irehdiamine A. Biochemical and Biophysical Research Communications, 1968, 31, 743-748.	2.1	12
88	Chapter 10. THE BACTERIAL VIEW OF THE PERIODIC TABLE: SPECIFIC FUNCTIONS FOR ALL ELEMENTS. , 1997, , 345-360.		10
89	Microbial arsenic: from geocycles to genes and enzymes. FEMS Microbiology Reviews, 2002, 26, 311-325.	8.6	10
90	Bacterial Heavy Metal Detoxification and Resistance Systems. , 1992, , 109-129.		9

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91	Draft Genome Sequence of Achromobacter piechaudii Strain HLE. Journal of Bacteriology, 2012, 194, 6355-6355.	2.2	9
92	Bacterial Heavy Metal Resistance Systems and Possibility of Bioremediation. , 1991, , 265-287.		9
93	Newer Systems for Bacterial Resistances to Toxic Heavy Metals. Environmental Health Perspectives, 1994, 102, 107.	6.0	8
94	BioMetals: a historical and personal perspective. BioMetals, 2011, 24, 379-390.	4.1	8
95	Death of scientific journals after 350 years. FEMS Microbiology Letters, 2018, 365, .	1.8	8
96	Resistance to arsenic compounds in microorganisms. FEMS Microbiology Reviews, 1994, 15, 355-367.	8.6	7
97	Molecular genetics of bacteria and bacteriophages. Progress in Biophysics and Molecular Biology, 1966, 16, 191-240.	2.9	6
98	The Bacterial View of the Periodic Table: Specific Functions for All Elements.. Microbes and Environments, 1998, 13, 177-192.	1.6	6
99	Draft Genome Sequence of Agrobacterium albertimagni Strain AOL15. Journal of Bacteriology, 2012, 194, 6986-6987.	2.2	6
100	Heavy Metal Resistance Plasmids and Use in Bioremediation. , 1995, , 47-62.		6
101	[87] Cations, antibiotics, and membranes. Methods in Enzymology, 1974, 32, 881-893.	1.0	5
102	Patenting a living microbial cell: 40th anniversary of US Supreme Court decision Diamond versus Chakrabarty. FEMS Microbiology Letters, 2020, 367, .	1.8	4
103	Interactions between Two MerR Regulators and Three Operator/Promoter Regions in the Mercury Resistance Module ofBacillus megaterium. Bioscience, Biotechnology and Biochemistry, 2008, 72, 2403-2410.	1.3	3
104	Irehdiamine and Malouetine. , 1975, , 614-622.		3
105	Beyond the fringe: when science moves from innovative to nonsense. FEMS Microbiology Letters, 2014, 350, 2-8.	1.8	2
106	Tracer Studies with ¹³NH₄⁺, ⁴²K⁺, and ²⁸Mg²⁺. Advances in Chemistry Series, 1982, , 453-468.	0.6	1
107	Knowledge about ATPases ignored. Trends in Biochemical Sciences, 1989, 14, 361-362.	7.5	1
108	The End of the Journal, as we know it: Commentary. Antonie Van Leeuwenhoek, 2008, 94, 487-491.	1.7	1

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109	Bioextraction and Biodeterioration of Metals. International Biodeterioration and Biodegradation, 1996, 37, 110.	3.9	0
110	Turning poison eaters inside out. Nature Biotechnology, 1997, 15, 953-953.	17.5	0
111	â€œAntonie van Leeuwenhoek for the era of online academic publishingâ€. Antonie Van Leeuwenhoek, 2007, 91, 97-98.	1.7	0
112	Joseph J. Cooney: 1934â€“2008. Journal of Industrial Microbiology and Biotechnology, 2008, 35, 211-212.	3.0	0
113	Bacterial metabolism and genes for toxic environmental metal ions. Journal of Bioscience and Bioengineering, 2009, 108, S75.	2.2	0
114	Introduction to a special Festschrift issue celebrating the microbiology of Cupriavidus metallidurans strain CH34. Antonie Van Leeuwenhoek, 2009, 96, 113-114.	1.7	0
115	Overview of Cellular Inorganic Metabolism and the Need for Gene Regulation. , 1998, , 1-8.		0
116	The Real Geneticist, Already at Bill Hayesâ€™ MRC Unit. , 2017, , 47-48.		0