

Simon Silver

List of Publications by Year in descending order

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116
papers

12,576
citations

41344

49
h-index

33894

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 of <i>Escherichia coli</i> . 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 <i>Escherichia coli</i> . 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. <i>Bio/technology</i> , 1995, 13, 773-778.	1.5	174
20	Molecular evolution of an arsenate detoxification pathway by DNA shuffling. <i>Nature Biotechnology</i> , 1997, 15, 436-438.	17.5	167
21	Bacterial resistance mechanisms for heavy metals of environmental concern. <i>Journal of Industrial Microbiology</i> , 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. <i>Molecular Genetics and Genomics</i> , 1986, 202, 143-151.	2.4	156
23	Mercury and Organomercurial Resistances Determined by Plasmids in <i>Staphylococcus aureus</i> . <i>Journal of Bacteriology</i> , 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.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984, 81, 5975-5979.	7.1	152
25	Diversity of silver resistance genes in IncH incompatibility group plasmids. <i>Microbiology (United Kingdom)</i> 157 143-148	1.8	143
26	Arsenate Reductase of <i>Staphylococcus aureus</i> Plasmid pI258. <i>Biochemistry</i> , 1994, 33, 7294-7299.	2.5	141
27	Genes for all metals—a bacterial view of the Periodic Table. <i>Journal of Industrial Microbiology and Biotechnology</i> , 1998, 20, 1-12.	3.0	137
28	Arsenate Reduction: Thiol Cascade Chemistry with Convergent Evolution. <i>Journal of Molecular Biology</i> , 2006, 362, 1-17.	4.2	137
29	Mercury and Organomercurial Resistances Determined by Plasmids in <i>Pseudomonas</i> . <i>Journal of Bacteriology</i> , 1977, 132, 186-196.	2.2	132
30	Insights into the iron and sulfur energetic metabolism of <i>Acidithiobacillus ferrooxidans</i> by microarray transcriptome profiling. <i>Hydrometallurgy</i> , 2006, 83, 263-272.	4.3	112
31	Plasmid chromate resistance and chromate reduction. <i>Plasmid</i> , 1992, 27, 65-71.	1.4	111
32	Mercuric reductase structural genes from plasmid R100 and transposon Tn501: functional domains of the enzyme. <i>Gene</i> , 1985, 34, 253-262.	2.2	108
33	Cation Fluxes and Permeability Changes Accompanying Bacteriophage Infection of <i>Escherichia coli</i> . <i>Journal of Virology</i> , 1968, 2, 763-771.	3.4	107
34	Methylammonium uptake by <i>Escherichia coli</i> : Evidence for a bacterial NH ₄ ⁺ transport system. <i>Biochemical and Biophysical Research Communications</i> , 1977, 75, 1133-1139.	2.1	98
35	Unified Nomenclature for Genes Involved in Prokaryotic Aerobic Arsenite Oxidation. <i>Journal of Bacteriology</i> , 2012, 194, 207-208.	2.2	91
36	Linkage of Mercury, Cadmium, and Arsenate and Drug Resistance in Clinical Isolates of <i>Pseudomonas aeruginosa</i> . <i>Applied and Environmental Microbiology</i> , 1977, 33, 975-976.	3.1	89

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37	Manganese accumulation by <i>Escherichia coli</i> : Evidence for a specific transport system. <i>Biochemical and Biophysical Research Communications</i> , 1969, 34, 640-645.	2.1	87
38	Bacterial resistance and detoxification of heavy metals. <i>Enzyme and Microbial Technology</i> , 1984, 6, 530-537.	3.2	85
39	Manganese Active Transport in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1970, 104, 1299-1306.	2.2	85
40	Manganese Transport in <i>Bacillus subtilis</i> W23 During Growth and Sporulation. <i>Journal of Bacteriology</i> , 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. <i>Molecular Microbiology</i> , 1993, 10, 7-12.	2.5	77
42	Cloning and expression of R-factor mediated arsenate resistance in <i>Escherichia coli</i> . <i>Molecular Genetics and Genomics</i> , 1983, 191, 421-426.	2.4	73
43	Orphan enzyme or patriarch of a new tribe: the arsenic resistance ATPase of bacterial plasmids. <i>Molecular Microbiology</i> , 1993, 8, 637-642.	2.5	73
44	Plasmid-determined metal resistance mechanisms: Range and overview. <i>Plasmid</i> , 1992, 27, 1-3.	1.4	69
45	Generation of Mercury-Hyperaccumulating Plants through Transgenic Expression of the Bacterial Mercury Membrane Transport Protein MerC. <i>Transgenic Research</i> , 2006, 15, 615-625.	2.4	66
46	Functional analysis of gapped microbial genomes: Amino acid metabolism of <i>Thiobacillus ferrooxidans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 3509-3514.	7.1	62
47	Magnesium Transport in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1971, 246, 569-576.	3.4	59
48	Manganese-Resistant Mutants of <i>Escherichia coli</i> : Physiological and Genetic Studies. <i>Journal of Bacteriology</i> , 1972, 110, 186-195.	2.2	57
49	The arsenical resistance operon of IncN plasmid R46. <i>FEMS Microbiology Letters</i> , 1996, 139, 149-153.	1.8	55
50	Acridine sensitivity of bacteriophage T2: A virus gene affecting cell permeability. <i>Journal of Molecular Biology</i> , 1967, 29, 191-202.	4.2	52
51	Genetic locus determining resistance to phage BF23 and colicins E1, E2 and E3 in <i>Escherichia coli</i> . <i>Genetical Research</i> , 1972, 19, 305-312.	0.9	50
52	Diversity of mercury resistance determinants among <i>Bacillus</i> strains isolated from sediment of Minamata Bay. <i>FEMS Microbiology Letters</i> , 2003, 223, 73-82.	1.8	50
53	Regulation of Manganese Accumulation and Exchange in <i>Bacillus subtilis</i> W23. <i>Journal of Bacteriology</i> , 1973, 113, 1373-1380.	2.2	49
54	Microarray and bioinformatic analyses suggest models for carbon metabolism in the autotroph <i>Acidithiobacillus ferrooxidans</i> . <i>Hydrometallurgy</i> , 2006, 83, 273-280.	4.3	48

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55	Resistance to Ag(I) Cations in Bacteria: Environments, Genes and Proteins. <i>Metal-Based Drugs</i> , 1999, 6, 315-320.	3.8	46
56	Evolution of an Ion-Translocating ATPase. <i>Annals of the New York Academy of Sciences</i> , 1992, 671, 257-272.	3.8	43
57	Down regulation of the mercury resistance operon by the most promoter-distal gene merD. <i>Molecular Genetics and Genomics</i> , 1989, 220, 69-72.	2.4	42
58	Magnesium Transport in <i>Bacillus subtilis</i> W23 During Growth and Sporulation. <i>Journal of Bacteriology</i> , 1974, 117, 1224-1230.	2.2	38
59	Aspects of the predicted physiology of <i>Acidithiobacillus ferrooxidans</i> deduced from an analysis of its partial genome sequence. <i>Hydrometallurgy</i> , 2003, 71, 97-105.	4.3	34
60	Functional Dissection of a Mercuric Ion Transporter, MerC, from <i>Acidithiobacillus ferrooxidans</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2005, 69, 1394-1402.	1.3	34
61	Mercury Resistance in <i>Bacillus cereus</i> RC607: Transcriptional Organization and Two New Open Reading Frames. <i>Journal of Bacteriology</i> , 1999, 181, 7080-7086.	2.2	34
62	Acridine Binding by <i>Escherichia coli</i> : H Dependency and Strain Differences. <i>Journal of Bacteriology</i> , 1968, 95, 333-339.	2.2	34
63	Transfer of Deoxyribonucleic Acid Accompanying the Transmission of Colicinogenic Properties by Cell Mating. <i>Nature</i> , 1962, 195, 873-874.	27.8	33
64	Effects of gold(I) antiarthritic drugs and related compounds on <i>Pseudomonas putida</i> . <i>Journal of Inorganic Biochemistry</i> , 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 of <i>Escherichia coli</i> to Mercury and Arsenite. <i>Biochemical and Biophysical Research Communications</i> , 1998, 242, 67-70.	2.1	29
67	Mercury resistance transposons in <i>Bacilli</i> strains from different geographical regions. <i>FEMS Microbiology Letters</i> , 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 by <i>Escherichia coli</i> Cells Producing <i>Thiobacillus ferrooxidans</i> MerC. <i>Bioscience, Biotechnology and Biochemistry</i> , 1996, 60, 1289-1292.	1.3	24
70	Draft Genome Sequence of <i>Alcaligenes faecalis</i> subsp. <i>faecalis</i> NCIB 8687 (CCUG 2071). <i>Journal of Bacteriology</i> , 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. <i>Annals of the New York Academy of Sciences</i> , 1970, 171, 838-862.	3.8	20
74	Exploiting heavy metal resistance systems in bioremediation. <i>Research in Microbiology</i> , 1994, 145, 61-67.	2.1	20
75	The mer operon of a mercury-resistant <i>Pseudoalteromonas haloplanktis</i> strain isolated from Minamata Bay, Japan. <i>Applied Microbiology and Biotechnology</i> , 2001, 56, 736-741.	3.6	20
76	Bacterial resistance to toxic metals determined by extrachromosomal R factors. <i>International Biodeterioration and Biodegradation</i> , 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 <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1968, 96, 338-345.	2.2	18
79	Characterization of two regulatory genes of the mercury resistance determinants from Tn MER11 by luciferase-based examination. <i>Gene</i> , 2002, 301, 13-20.	2.2	17
80	Uptake of Mg ²⁺ by KB cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1971, 225, 71-76.	2.6	16
81	Promoters and transcription of the plasmid-mediated citrate-utilization system in <i>Escherichia coli</i> . <i>Gene</i> , 1988, 68, 181-192.	2.2	16
82	The First Cell. <i>Advances in Microbial Physiology</i> , 2005, 50, 227-259.	2.4	16
83	DNA sequence analysis of bacterial toxic heavy metal resistances. <i>Biological Trace Element Research</i> , 1989, 21, 145-163.	3.5	15
84	Draft Genome of <i>Halomonas</i> Species Strain GFAJ-1 (ATCC BAA-2256). <i>Journal of Bacteriology</i> , 2012, 194, 1835-1836.	2.2	15
85	Novel expansion of living chemistry or just a serious mistake?. <i>FEMS Microbiology Letters</i> , 2011, 315, 79-80.	1.8	14
86	Laboratory-acquired lethal infections by potential bioweapons pathogens including Ebola in 2014. <i>FEMS Microbiology Letters</i> , 2015, 362, 1-6.	1.8	14
87	Reversible alterations in membrane permeability of <i>Escherichia coli</i> induced by a steroidal diamine, irehdiamine A. <i>Biochemical and Biophysical Research Communications</i> , 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. <i>FEMS Microbiology Reviews</i> , 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 <i>Achromobacter piechaudii</i> Strain HLE. <i>Journal of Bacteriology</i> , 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. <i>Environmental Health Perspectives</i> , 1994, 102, 107.	6.0	8
94	BioMetals: a historical and personal perspective. <i>BioMetals</i> , 2011, 24, 379-390.	4.1	8
95	Death of scientific journals after 350 years. <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	8
96	Resistance to arsenic compounds in microorganisms. <i>FEMS Microbiology Reviews</i> , 1994, 15, 355-367.	8.6	7
97	Molecular genetics of bacteria and bacteriophages. <i>Progress in Biophysics and Molecular Biology</i> , 1966, 16, 191-240.	2.9	6
98	The Bacterial View of the Periodic Table: Specific Functions for All Elements.. <i>Microbes and Environments</i> , 1998, 13, 177-192.	1.6	6
99	Draft Genome Sequence of <i>Agrobacterium albertimagni</i> Strain AOL15. <i>Journal of Bacteriology</i> , 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. <i>Methods in Enzymology</i> , 1974, 32, 881-893.	1.0	5
102	Patenting a living microbial cell: 40th anniversary of US Supreme Court decision <i>Diamond versus Chakrabarty</i> . <i>FEMS Microbiology Letters</i> , 2020, 367, .	1.8	4
103	Interactions between Two MerR Regulators and Three Operator/Promoter Regions in the Mercury Resistance Module of <i>Bacillus megaterium</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 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. <i>FEMS Microbiology Letters</i> , 2014, 350, 2-8.	1.8	2
106	Tracer Studies with $^{13}\text{NH}_4^+$, $^{42}\text{K}^+$, and $^{28}\text{Mg}^{2+}$. <i>Advances in Chemistry Series</i> , 1982, , 453-468.	0.6	1
107	Knowledge about ATPases ignored. <i>Trends in Biochemical Sciences</i> , 1989, 14, 361-362.	7.5	1
108	The End of the Journal, as we know it: Commentary. <i>Antonie Van Leeuwenhoek</i> , 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	“Antonie van Leeuwenhoek for the era of online academic publishing”. Antonie Van Leeuwenhoek, 2007, 91, 97-98.	1.7	0
112	Joseph J. Cooney: 1934–2008. 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 Hayes’s™ MRC Unit. , 2017, , 47-48.		0