Simon Silver

List of Publications by Year
in descending order

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	Patenting a living microbial cell: 40th anniversary of US Supreme Court decision Diamond versus Chakrabarty. FEMS Microbiology Letters, 2020, 367, .	1.8	4
2	Death of scientific journals after 350 years. FEMS Microbiology Letters, 2018, 365, .	1.8	8
3	The Real Geneticist, Already at Bill Hayesâ€™ MRC Unit. , 2017, , 47-48.		0
4	Mercury resistance transposons in Bacilli strains from different geographical regions. FEMS Microbiology Letters, 2016, 363, fnw013.	1.8	29
5	Laboratory-acquired lethal infections by potential bioweapons pathogens including Ebola in 2014. FEMS Microbiology Letters, 2015, 362, 1-6.	1.8	14
6	Beyond the fringe: when science moves from innovative to nonsense. FEMS Microbiology Letters, 2014, 350, 2-8.	1.8	2
7	Antimicrobial silver: uses, toxicity and potential for resistance. BioMetals, 2013, 26, 609-621.	4.1	429
8	Unified Nomenclature for Genes Involved in Prokaryotic Aerobic Arsenite Oxidation. Journal of Bacteriology, 2012, 194, 207-208.	2.2	91
9	Draft Genome Sequence of Agrobacterium albertimagni Strain AOL15. Journal of Bacteriology, 2012, 194, 6986-6987.	2.2	6
10	Draft Genome Sequence of Achromobacter piechaudii Strain HLE. Journal of Bacteriology, 2012, 194, 6355-6355.	2.2	9
11	Draft Genome of Halomonas Species Strain GFAJ-1 (ATCC BAA-2256). Journal of Bacteriology, 2012, 194, 1835-1836.	2.2	15
12	Draft Genome Sequence of Alcaligenes faecalis subsp.<i>faecalis</i>NCIB 8687 (CCUG 2071). Journal of Bacteriology, 2012, 194, 5153-5153.	2.2	24
13	Novel expansion of living chemistry or just a serious mistake?. FEMS Microbiology Letters, 2011, 315, 79-80.	1.8	14
14	BioMetals: a historical and personal perspective. BioMetals, 2011, 24, 379-390.	4.1	8
15	Bacterial metabolism and genes for toxic environmental metal ions. Journal of Bioscience and Bioengineering, 2009, 108, S75.	2.2	0
16	Introduction to a special Festschrift issue celebrating the microbiology of Cupriavidus metallidurans strain CH34. Antonie Van Leeuwenhoek, 2009, 96, 113-114.	1.7	0
17	Joseph J. Cooney: 1934â€"2008. Journal of Industrial Microbiology and Biotechnology, 2008, 35, 211-212.	3.0	0
18	The End of the Journal, as we know it: Commentary. Antonie Van Leeuwenhoek, 2008, 94, 487-491.	1.7	1

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19	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
20	Mercury Microbiology: Resistance Systems, Environmental Aspects, Methylation, and Human Health. , 2007, , 357-370.		21
21	â€œAntonie van Leeuwenhoek for the era of online academic publishingâ€• Antonie Van Leeuwenhoek, 2007, 91, 97-98.	1.7	0
22	Arsenate Reduction: Thiol Cascade Chemistry with Convergent Evolution. Journal of Molecular Biology, 2006, 362, 1-17.	4.2	137
23	Microarray and bioinformatic analyses suggest models for carbon metabolism in the autotroph Acidithiobacillus ferrooxidans. Hydrometallurgy, 2006, 83, 273-280.	4.3	48
24	Insights into the iron and sulfur energetic metabolism of Acidithiobacillus ferrooxidans by microarray transcriptome profiling. Hydrometallurgy, 2006, 83, 263-272.	4.3	112
25	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
26	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
27	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
28	Functional Dissection of a Mercuric Ion Transporter, MerC, fromAcidithiobacillus ferrooxidans. Bioscience, Biotechnology and Biochemistry, 2005, 69, 1394-1402.	1.3	34
29	Genes and Enzymes Involved in Bacterial Oxidation and Reduction of Inorganic Arsenic. Applied and Environmental Microbiology, 2005, 71, 599-608.	3.1	530
30	The First Cell. Advances in Microbial Physiology, 2005, 50, 227-259.	2.4	16
31	Bacterial silver resistance: molecular biology and uses and misuses of silver compounds. FEMS Microbiology Reviews, 2003, 27, 341-353.	8.6	1,084
32	Diversity of mercury resistance determinants amongBacillusstrains isolated from sediment of Minamata Bay. FEMS Microbiology Letters, 2003, 223, 73-82.	1.8	50
33	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
34	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
35	Microbial arsenic: from geocycles to genes and enzymes. FEMS Microbiology Reviews, 2002, 26, 311-325.	8.6	578
36	Microbial arsenic: from geocycles to genes and enzymes. FEMS Microbiology Reviews, 2002, 26, 311-325.	8.6	10

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37	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
38	Bacterial resistance to toxic metals determined by extrachromosomal R factors. International Biodeterioration and Biodegradation, 2001, 48, 263-281.	3.9	20
39	Diversity of silver resistance genes in IncH incompatibility group plasmids. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.8	143
40	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
41	Resistance to Ag(I) Cations in Bacteria: Environments, Genes and Proteins. Metal-Based Drugs, 1999, 6, 315-320.	3.8	46
42	Molecular basis for resistance to silver cations in Salmonella. Nature Medicine, 1999, 5, 183-188.	30.7	435
43	Mercury Resistance in <i>Bacillus cereus</i> RC607: Transcriptional Organization and Two New Open Reading Frames. Journal of Bacteriology, 1999, 181, 7080-7086.	2.2	34
44	Genes for all metals--a bacterial view of the Periodic Table. Journal of Industrial Microbiology and Biotechnology, 1998, 20, 1-12.	3.0	137
45	Molecular Genetics: Silver as a biocide: Will resistance become a problem?. Nature Biotechnology, 1998, 16, 888-888.	17.5	245
46	Effects of Intracellular Glutathione on Sensitivity ofEscherichia colito Mercury and Arsenite. Biochemical and Biophysical Research Communications, 1998, 242, 67-70.	2.1	29
47	The Bacterial View of the Periodic Table: Specific Functions for All Elements.. Microbes and Environments, 1998, 13, 177-192.	1.6	6
48	Effects of Halides on Plasmid-Mediated Silver Resistance in <i>Escherichia coli</i>. Applied and Environmental Microbiology, 1998, 64, 5042-5045.	3.1	185
49	Overview of Cellular Inorganic Metabolism and the Need for Gene Regulation. , 1998, , 1-8.		0
50	Chapter 10. THE BACTERIAL VIEW OF THE PERIODIC TABLE: SPECIFIC FUNCTIONS FOR ALL ELEMENTS. , 1997, , 345-360.		10
51	Molecular evolution of an arsenate detoxification pathway by DNA shuffling. Nature Biotechnology, 1997, 15, 436-438.	17.5	167
52	Turning poison eaters inside out. Nature Biotechnology, 1997, 15, 953-953.	17.5	0
53	BACTERIAL HEAVY METAL RESISTANCE: New Surprises. Annual Review of Microbiology, 1996, 50, 753-789.	7.3	1,129
54	Bacterial resistances to toxic metal ions - a review. Gene, 1996, 179, 9-19.	2.2	538

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55	Mercuric Ion Uptake by<i>Escherichia coli</i>Cells Producing<i>Thiobacillus ferrooxidans</i>MerC. Bioscience, Biotechnology and Biochemistry, 1996, 60, 1289-1292.	1.3	24
56	Bioextraction and Biodeterioration of Metals. International Biodeterioration and Biodegradation, 1996, 37, 110.	3.9	0
57	The arsenical resistance operon of IncN plasmid R46. FEMS Microbiology Letters, 1996, 139, 149-153.	1.8	55
58	Bacterial resistance mechanisms for heavy metals of environmental concern. Journal of Industrial Microbiology, 1995, 14, 61-75.	0.9	158
59	Ion efflux systems involved in bacterial metal resistances. Journal of Industrial Microbiology, 1995, 14, 186-199.	0.9	462
60	Mining with Microbes. Bio/technology, 1995, 13, 773-778.	1.5	174
61	Heavy Metal Resistance Plasmids and Use in Bioremediation. , 1995, , 47-62.		6
62	Resistance to arsenic compounds in microorganisms. FEMS Microbiology Reviews, 1994, 15, 355-367.	8.6	286
63	Exploiting heavy metal resistance systems in bioremediation. Research in Microbiology, 1994, 145, 61-67.	2.1	20
64	Newer Systems for Bacterial Resistances to Toxic Heavy Metals. Environmental Health Perspectives, 1994, 102, 107.	6.0	8
65	Arsenate Reductase of Staphylococcus aureus Plasmid pI258. Biochemistry, 1994, 33, 7294-7299.	2.5	141
66	Resistance to arsenic compounds in microorganisms. FEMS Microbiology Reviews, 1994, 15, 355-367.	8.6	7
67	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
68	Orphan enzyme or patriarch of a new tribe: the arsenic resistance ATPase of bacterial plasmids. Molecular Microbiology, 1993, 8, 637-642.	2.5	73
69	Bacterial Heavy Metal Detoxification and Resistance Systems. , 1992, , 109-129.		9
70	Evolution of an Ion-Translocating ATPase. Annals of the New York Academy of Sciences, 1992, 671, 257-272.	3.8	43
71	Plasmid-determined metal resistance mechanisms: Range and overview. Plasmid, 1992, 27, 1-3.	1.4	69
72	Plasmid chromate resistance and chromate reduction. Plasmid, 1992, 27, 65-71.	1.4	111

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73	Effects of gold(I) antiarthritic drugs and related compounds on Pseudomonas putida. Journal of Inorganic Biochemistry, 1992, 46, 129-142.	3.5	31
74	Bacterial Heavy Metal Resistance Systems and Possibility of Bioremediation. , 1991, , 265-287.		9
75	DNA sequence analysis of bacterial toxic heavy metal resistances. Biological Trace Element Research, 1989, 21, 145-163.	3.5	15
76	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
77	Knowledge about ATPases ignored. Trends in Biochemical Sciences, 1989, 14, 361-362.	7.5	1
78	Bacterial resistance ATPases: primary pumps for exporting toxic cations and anions. Trends in Biochemical Sciences, 1989, 14, 76-80.	7.5	178
79	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
80	Promoters and transcription of the plasmid-mediated citrate-utilization system in Escherichia coli. Gene, 1988, 68, 181-192.	2.2	16
81	Bacterial Magnesium, Manganese, and Zinc Transport. , 1987, , 165-180.		19
82	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
83	Mercuric reductase structural genes from plasmid R100 and transposon Tn501: functional domains of the enzyme. Gene, 1985, 34, 253-262.	2.2	108
84	Bacterial Transformations of and Resistances to Heavy Metals. , 1984, 28, 23-46.		30
85	Bacterial resistance and detoxification of heavy metals. Enzyme and Microbial Technology, 1984, 6, 530-537.	3.2	85
86	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
87	Cloning and expression of R-factor mediated arsenate resistance in Escherichia coli. Molecular Genetics and Genomics, 1983, 191, 421-426.	2.4	73
88	Bacterial Interactions with Mineral Cations and Anions: Good Ions and Bad. , 1983, , 439-457.		27
89	Tracer Studies with ¹³NH₄⁺, ⁴²K⁺, and ²⁸Mg²⁺. Advances in Chemistry Series, 1982, , 453-468.	0.6	1
90	Mechanisms of Plasmid-Determined Heavy Metal Resistances. , 1981, , 179-189.		21

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91	Methylammonium uptake by Escherichia coli: Evidence for a bacterial NH4+ transport system. Biochemical and Biophysical Research Communications, 1977, 75, 1133-1139.	2.1	98
92	Linkage of Mercury, Cadmium, and Arsenate and Drug Resistance in Clinical Isolates of <i>Pseudomonas aeruginosa</i>. Applied and Environmental Microbiology, 1977, 33, 975-976.	3.1	89
93	Mercury and Organomercurial Resistances Determined by Plasmids in <i>Pseudomonas</i>. Journal of Bacteriology, 1977, 132, 186-196.	2.2	132
94	Mercury and Organomercurial Resistances Determined by Plasmids in <i>Staphylococcus aureus</i>. Journal of Bacteriology, 1977, 132, 197-208.	2.2	153
95	Irehdiamine and Malouetine. , 1975, , 614-622.		3
96	Volatilisation of mercury and organomercurials determined by inducible R-factor systems in enteric bacteria. Nature, 1974, 251, 335-337.	27.8	210
97	[87] Cations, antibiotics, and membranes. Methods in Enzymology, 1974, 32, 881-893.	1.0	5
98	Magnesium Transport in Bacillus subtilis W23 During Growth and Sporulation. Journal of Bacteriology, 1974, 117, 1224-1230.	2.2	38
99	Manganese Transport in Bacillus subtilis W23 During Growth and Sporulation. Journal of Bacteriology, 1973, 113, 1363-1372.	2.2	78
100	Regulation of Manganese Accumulation and Exchange in Bacillus subtilis W23. Journal of Bacteriology, 1973, 113, 1373-1380.	2.2	49
101	Genetic locus determining resistance to phage BF23 and colicins E1, E2and E3inEscherichia coli. Genetical Research, 1972, 19, 305-312.	0.9	50
102	Manganese-Resistant Mutants of <i>Escherichia coli</i> : Physiological and Genetic Studies. Journal of Bacteriology, 1972, 110, 186-195.	2.2	57
103	Mercury Resistance in a Plasmid-Bearing Strain of<i>Escherichia coli</i>. Journal of Bacteriology, 1972, 112, 1228-1236.	2.2	216
104	Uptake of Mg2+ by KB cells. Biochimica Et Biophysica Acta - Biomembranes, 1971, 225, 71-76.	2.6	16
105	Magnesium Transport in Escherichia coli. Journal of Biological Chemistry, 1971, 246, 569-576.	3.4	59
106	EFFECTS OF POLYAMINES ON MEMBRANE PERMEABILITY. Annals of the New York Academy of Sciences, 1970, 171, 838-862.	3.8	20
107	Manganese Active Transport in <i>Escherichia coli</i>. Journal of Bacteriology, 1970, 104, 1299-1306.	2.2	85
108	Manganese accumulation by Escherichia coli: Evidence for a specific transport system. Biochemical and Biophysical Research Communications, 1969, 34, 640-645.	2.1	87

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109	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
110	Acridine Binding by <i>Escherichia coli</i> : <i>p</i> H Dependency and Strain Differences. Journal of Bacteriology, 1968, 95, 333-339.	2.2	34
111	Action of Steroidal Diamines on Active Transport and Permeability Properties of Escherichia coli. Journal of Bacteriology, 1968, 96, 338-345.	2.2	18
112	Cation Fluxes and Permeability Changes Accompanying Bacteriophage Infection of <i>Escherichia coli</i>. Journal of Virology, 1968, 2, 763-771.	3.4	107
113	Acridine sensitivity of bacteriophage T2: A virus gene affecting cell permeability. Journal of Molecular Biology, 1967, 29, 191-202.	4.2	52
114	Mechanism of Action of Phenethyl Alcohol: Breakdown of the Cellular Permeability Barrier. Journal of Bacteriology, 1967, 93, 560-566.	2.2	216
115	Molecular genetics of bacteria and bacteriophages. Progress in Biophysics and Molecular Biology, 1966, 16, 191-240.	2.9	6
116	Transfer of Deoxyribonucleic Acid Accompanying the Transmission of Colicinogenic Properties by Cell Mating. Nature, 1962, 195, 873-874.	27.8	33