

Ronald S Oremland

List of Publications by Year in descending order

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122
papers

13,484
citations

23544

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113
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128
all docs

128
docs citations

128
times ranked

8059
citing authors

#	ARTICLE	IF	CITATIONS
1	BUBBLES in the MUD: A Reminiscence and Perspective. <i>Advances in Environmental Microbiology</i> , 2021, , 637-652.	0.1	1
2	Got acetylene: a personal research retrospective. <i>FEMS Microbes</i> , 2021, 2, .	0.8	0
3	Salty, Alkali-Laced Tales (Mostly True) from the Great Basin Desert, California and Nevada. <i>Advances in Environmental Microbiology</i> , 2021, , 653-685.	0.1	2
4	Acetylene-Fueled Trichloroethene Reductive Dechlorination in a Groundwater Enrichment Culture. <i>MBio</i> , 2021, 12, .	1.8	6
5	Arsenic and the gastrointestinal tract microbiome. <i>Environmental Microbiology Reports</i> , 2020, 12, 136-159.	1.0	41
6	The Great (Toilet) Paper Chase: Our Study of the 1979 San Francisco Bay Sewage Spill (As Motivated by) Tj ETQq0 0 0 rgBT /Overlock 10 e2020CN000132.	0.2	1
7	Arsenolipids in Cultured Picocystis Strain ML and Their Occurrence in Biota and Sediment from Mono Lake, California. <i>Life</i> , 2020, 10, 93.	1.1	20
8	Got Selenium?. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	3
9	Methane, arsenic, selenium and the origins of the DMSO reductase family. <i>Scientific Reports</i> , 2020, 10, 10946.	1.6	20
10	Bacterially synthesized tellurium nanostructures for broadband ultrafast nonlinear optical applications. <i>Nature Communications</i> , 2019, 10, 3985.	5.8	68
11	Why I never worked on anaerobic oxidation of methane (AOM) beyond the unsuccessful attempts of my NRC postdoc at NASA Ames Research Center (Sept. 1976â€“Sept. 1977). <i>FEMS Microbiology Letters</i> , 2019, 366, .	0.7	2
12	Draft Genome Sequence of Picocystis sp. Strain ML, Cultivated from Mono Lake, California. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.3	4
13	Respiratory Selenite Reductase from <i>Bacillus selenitireducens</i> Strain MLS10. <i>Journal of Bacteriology</i> , 2019, 201, .	1.0	37
14	<i>Syntrophotalea acetylenivorans</i> sp. nov., a diazotrophic, acetylenotrophic anaerobe isolated from intertidal sediments. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 71, .	0.8	9
15	Arsenate-dependent growth is independent of an ArrA mechanism of arsenate respiration in the termite hindgut isolate <i>Citrobacter</i> sp. strain TSA-1. <i>Canadian Journal of Microbiology</i> , 2018, 64, 619-627.	0.8	12
16	Acetylenotrophy: a hidden but ubiquitous microbial metabolism?. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	14
17	Improved ZnS nanoparticle properties through sequential NanoFermentation. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 8329-8339.	1.7	2
18	Metabolic Capability and Phylogenetic Diversity of Mono Lake during a Bloom of the Eukaryotic Phototroph <i>Picocystis</i> sp. Strain ML. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	18

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19	Acetylene Fuels TCE Reductive Dechlorination by Defined <i>Dehalococcoides</i> / <i>Pelobacter</i> Consortia. <i>Environmental Science & Technology</i> , 2017, 51, 2366-2372.	4.6	41
20	Bacteria Versus Selenium: A View from the Inside Out. <i>Plant Ecophysiology</i> , 2017, , 79-108.	1.5	3
21	Autotrophic microbial arsenotrophy in arsenic-rich soda lakes. <i>FEMS Microbiology Letters</i> , 2017, 364, .	0.7	49
22	Detection of Diazotrophy in the Acetylene-Fermenting Anaerobe <i>Pelobacter</i> sp. Strain SFB93. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	15
23	The genetic basis of anoxygenic photosynthetic arsenite oxidation. <i>Environmental Microbiology</i> , 2017, 19, 130-141.	1.8	37
24	Metabolomic changes in response to toxic arsenite. <i>Environmental Microbiology</i> , 2017, 19, 413-414.	1.8	0
25	Arsenite as an Electron Donor for Anoxygenic Photosynthesis: Description of Three Strains of <i>Ectothiorhodospira</i> from Mono Lake, California and Big Soda Lake, Nevada. <i>Life</i> , 2017, 7, 1.	1.1	38
26	Complete Genome Sequences of Two Acetylene-Fermenting <i>Pelobacter acetylenicus</i> Strains. <i>Genome Announcements</i> , 2017, 5, .	0.8	6
27	Complete Genome Sequence of the Acetylene-Fermenting <i>Pelobacter</i> sp. Strain SFB93. <i>Genome Announcements</i> , 2017, 5, .	0.8	5
28	Genome Sequence of the Photoarsenotrophic Bacterium <i>Ectothiorhodospira</i> sp. Strain BSL-9, Isolated from a Hypersaline Alkaline Arsenic-Rich Extreme Environment. <i>Genome Announcements</i> , 2016, 4, .	0.8	9
29	Microbial Antimony Biogeochemistry: Enzymes, Regulation, and Related Metabolic Pathways. <i>Applied and Environmental Microbiology</i> , 2016, 82, 5482-5495.	1.4	142
30	A Microbial Arsenic Cycle in Sediments of an Acidic Mine Impoundment: Herman Pit, Clear Lake, California. <i>Geomicrobiology Journal</i> , 2016, 33, 677-689.	1.0	9
31	Stable Carbon Isotope Fractionation during Bacterial Acetylene Fermentation: Potential for Life Detection in Hydrocarbon-Rich Volatiles of Icy Planet(oid)s. <i>Astrobiology</i> , 2015, 15, 977-986.	1.5	11
32	Methane Oxidation and Molecular Characterization of Methanotrophs from a Former Mercury Mine Impoundment. <i>Microorganisms</i> , 2015, 3, 290-309.	1.6	19
33	Microbiological Oxidation of Antimony(III) with Oxygen or Nitrate by Bacteria Isolated from Contaminated Mine Sediments. <i>Applied and Environmental Microbiology</i> , 2015, 81, 8478-8488.	1.4	93
34	Nanoparticles Formed from Microbial Oxyanion Reduction of Toxic Group 15 and Group 16 Metalloids. , 2014, , 297-P2.		4
35	Microbiological Reduction of Sb(V) in Anoxic Freshwater Sediments. <i>Environmental Science & Technology</i> , 2014, 48, 218-226.	4.6	108
36	A Random Biogeochemical Walk into Three Soda Lakes of the Western USA: With an Introduction to a Few of Their Microbial Denizens. <i>Cellular Origin and Life in Extreme Habitats</i> , 2013, , 179-199.	0.3	4

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37	A Biogeochemical and Genetic Survey of Acetylene Fermentation by Environmental Samples and Bacterial Isolates. <i>Geomicrobiology Journal</i> , 2013, 30, 501-516.	1.0	26
38	<i>Desulfohalophilus alkaliarsenatis</i> gen. nov., sp. nov., an extremely halophilic sulfate- and arsenate-respiring bacterium from Searles Lake, California. <i>Extremophiles</i> , 2012, 16, 727-742.	0.9	48
39	ArxA, a new clade of arsenite oxidase within the DMSO reductase family of molybdenum oxidoreductases. <i>Environmental Microbiology</i> , 2012, 14, 1635-1645.	1.8	134
40	A Bacterium That Can Grow by Using Arsenic Instead of Phosphorus. <i>Science</i> , 2011, 332, 1163-1166.	6.0	422
41	Strong nonlinear photonic responses from microbiologically synthesized tellurium nanocomposites. <i>Chemical Physics Letters</i> , 2010, 484, 242-246.	1.2	14
42	NO connection with methane. <i>Nature</i> , 2010, 464, 500-501.	13.7	24
43	Coupled Arsenotrophy in a Hot Spring Photosynthetic Biofilm at Mono Lake, California. <i>Applied and Environmental Microbiology</i> , 2010, 76, 4633-4639.	1.4	50
44	Identification of a Novel Arsenite Oxidase Gene, <i>arxA</i> , in the Haloalkaliphilic, Arsenite-Oxidizing Bacterium <i>Alkalilimnicola ehrlichii</i> Strain MLHE-1. <i>Journal of Bacteriology</i> , 2010, 192, 3755-3762.	1.0	168
45	Ecophysiology of <i>Halarsenatibacter silvermanii</i> Strain SLAS-1 ^T , gen. nov., sp. nov., a Facultative Chemoautotrophic Arsenate Respirer from Salt-Saturated Searles Lake, California. <i>Applied and Environmental Microbiology</i> , 2009, 75, 1950-1960.	1.4	58
46	Enrichment and isolation of <i>Bacillus beveridgei</i> sp. nov., a facultative anaerobic haloalkaliphile from Mono Lake, California, that respire oxyanions of tellurium, selenium, and arsenic. <i>Extremophiles</i> , 2009, 13, 695-705.	0.9	96
47	Respiratory arsenate reductase as a bidirectional enzyme. <i>Biochemical and Biophysical Research Communications</i> , 2009, 382, 298-302.	1.0	117
48	Investigating different mechanisms for biogenic selenite transformations: <i>Geobacter sulfurreducens</i> , <i>Shewanella oneidensis</i> and <i>Veillonella atypica</i> . <i>Environmental Technology (United Kingdom)</i> , 2009, 30, 1313-1326.	1.2	111
49	Arsenic in the Evolution of Earth and Extraterrestrial Ecosystems. <i>Geomicrobiology Journal</i> , 2009, 26, 522-536.	1.0	123
50	Electricity generation by anaerobic bacteria and anoxic sediments from hypersaline soda lakes. <i>Extremophiles</i> , 2008, 12, 837-848.	0.9	32
51	Acetylene as Fast Food: Implications for Development of Life on Anoxic Primordial Earth and in the Outer Solar System. <i>Astrobiology</i> , 2008, 8, 45-58.	1.5	39
52	Formation of Tellurium Nanocrystals during Anaerobic Growth of Bacteria That Use Te Oxyanions as Respiratory Electron Acceptors. <i>Applied and Environmental Microbiology</i> , 2007, 73, 2135-2143.	1.4	200
53	<i>Alkalilimnicola ehrlichii</i> sp. nov., a novel, arsenite-oxidizing haloalkaliphilic gammaproteobacterium capable of chemoautotrophic or heterotrophic growth with nitrate or oxygen as the electron acceptor. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007, 57, 504-512.	0.8	226
54	Arsenic and Selenium in Microbial Metabolism. <i>Annual Review of Microbiology</i> , 2006, 60, 107-130.	2.9	573

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55	Arsenic in Ground Water: A Review of Current Knowledge and Relation to the CALFED Solution Area with Recommendations for Needed Research. San Francisco Estuary and Watershed Science, 2006, 4, .	0.2	13
56	Whither or wither geomicrobiology in the era of 'community metagenomics'. Nature Reviews Microbiology, 2005, 3, 572-578.	13.6	59
57	A Microbial Arsenic Cycle in a Salt-Saturated, Extreme Environment. Science, 2005, 308, 1305-1308.	6.0	158
58	Arsenic, microbes and contaminated aquifers. Trends in Microbiology, 2005, 13, 45-49.	3.5	470
59	Redox Transformations of Arsenic Oxyanions in Periphyton Communities. Applied and Environmental Microbiology, 2004, 70, 6428-6434.	1.4	29
60	The microbial arsenic cycle in Mono Lake, California. FEMS Microbiology Ecology, 2004, 48, 15-27.	1.3	166
61	Dissimilatory Arsenate Reduction with Sulfide as Electron Donor: Experiments with Mono Lake Water and Isolation of Strain MLMS-1, a Chemoautotrophic Arsenate Respirer. Applied and Environmental Microbiology, 2004, 70, 2741-2747.	1.4	155
62	Structural and Spectral Features of Selenium Nanospheres Produced by Se-Respiring Bacteria. Applied and Environmental Microbiology, 2004, 70, 52-60.	1.4	421
63	The Ecology of Arsenic. ChemInform, 2003, 34, no.	0.1	4
64	The respiratory arsenate reductase from Bacillus selenitireducens strain MLS10. FEMS Microbiology Letters, 2003, 226, 107-112.	0.7	185
65	The Ecology of Arsenic. Science, 2003, 300, 939-944.	6.0	1,336
66	Reduction of Elemental Selenium to Selenide: Experiments with Anoxic Sediments and Bacteria that Respire Se-Oxyanions. Geomicrobiology Journal, 2003, 20, 587-602.	1.0	114
67	Characterization of Microbial Arsenate Reduction in the Anoxic Bottom Waters of Mono Lake, California. Geomicrobiology Journal, 2002, 19, 23-40.	1.0	52
68	Distribution, production, and ecophysiology of <i>Picocystis</i> strain ML in Mono Lake, California. Limnology and Oceanography, 2002, 47, 440-452.	1.6	87
69	Anaerobic Oxidation of Arsenite in Mono Lake Water and by a Facultative, Arsenite-Oxidizing Chemoautotroph, Strain MLHE-1. Applied and Environmental Microbiology, 2002, 68, 4795-4802.	1.4	274
70	Dissimilatory arsenate reductase activity and arsenate-respiring bacteria in bovine rumen fluid, hamster feces, and the termite hindgut. FEMS Microbiology Ecology, 2002, 41, 59-67.	1.3	64
71	<i>Selenihalanaerobacter shriftii</i> gen. nov., sp. nov., a halophilic anaerobe from Dead Sea sediments that respire selenate. Archives of Microbiology, 2001, 175, 208-219.	1.0	110
72	Methyl-Mercury Degradation Pathways: A Comparison among Three Mercury-Impacted Ecosystems. Environmental Science & Technology, 2000, 34, 4908-4916.	4.6	195

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73	Bacterial dissimilatory reduction of arsenate and sulfate in meromictic Mono Lake, California. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 3073-3084.	1.6	147
74	Fractionation of selenium isotopes during bacterial respiratory reduction of selenium oxyanions. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 3701-3709.	1.6	111
75	Mobilization of Arsenite by Dissimilatory Reduction of Adsorbed Arsenate. <i>Environmental Science & Technology</i> , 2000, 34, 4747-4753.	4.6	364
76	Simultaneous Reduction of Nitrate and Selenate by Cell Suspensions of Selenium-Respiring Bacteria. <i>Applied and Environmental Microbiology</i> , 1999, 65, 4385-4392.	1.4	121
77	Note: <i>Sulfurospirillum barnesii</i> sp. nov. and <i>Sulfurospirillum arsenophilum</i> sp. nov., new members of the <i>Sulfurospirillum</i> clade of the μ -Proteobacteria. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 1999, 49, 1177-1180.	0.8	183
78	Bacterial respiration of arsenic and selenium. <i>FEMS Microbiology Reviews</i> , 1999, 23, 615-627.	3.9	493
79	Oxidation of ammonia and methane in an alkaline, saline lake. <i>Limnology and Oceanography</i> , 1999, 44, 178-188.	1.6	110
80	<i>Bacillus arsenicoselenatis</i> , sp. nov., and <i>Bacillus selenitireducens</i> , sp. nov.: two haloalkaliphiles from Mono Lake, California that respire oxyanions of selenium and arsenic. <i>Archives of Microbiology</i> , 1998, 171, 19-30.	1.0	416
81	Bacterial Methylmercury Degradation in Florida Everglades Peat Sediment. <i>Environmental Science & Technology</i> , 1998, 32, 2556-2563.	4.6	163
82	Microbial Oxidation of Elemental Selenium in Soil Slurries and Bacterial Cultures. <i>Environmental Science & Technology</i> , 1998, 32, 3749-3755.	4.6	169
83	Differential cytochrome content and reductase activity in <i>Geospirillum barnesii</i> strain SeS3. <i>Archives of Microbiology</i> , 1997, 167, 1-5.	1.0	43
84	Isolation, Growth, and Metabolism of an Obligately Anaerobic, Selenate-Respiring Bacterium, Strain SES-3. <i>Applied and Environmental Microbiology</i> , 1994, 60, 3011-3019.	1.4	215
85	Meromixis in hypersaline Mono Lake, California. 3. Biogeochemical response to stratification and overturn. <i>Limnology and Oceanography</i> , 1993, 38, 1040-1051.	1.6	45
86	Nitrate Is a Preferred Electron Acceptor for Growth of Freshwater Selenate-Respiring Bacteria. <i>Applied and Environmental Microbiology</i> , 1992, 58, 426-428.	1.4	70
87	Evaluation of Methyl Fluoride and Dimethyl Ether as Inhibitors of Aerobic Methane Oxidation. <i>Applied and Environmental Microbiology</i> , 1992, 58, 2983-2992.	1.4	114
88	Methylmercury Decomposition in Sediments and Bacterial Cultures: Involvement of Methanogens and Sulfate Reducers in Oxidative Demethylation. <i>Applied and Environmental Microbiology</i> , 1991, 57, 130-137.	1.4	247
89	Measurement of in situ rates of selenate removal by dissimilatory bacterial reduction in sediments. <i>Environmental Science & Technology</i> , 1990, 24, 1157-1164.	4.6	142
90	Dissimilatory Selenate Reduction Potentials in a Diversity of Sediment Types. <i>Applied and Environmental Microbiology</i> , 1990, 56, 3550-3557.	1.4	108

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91	Selenate Reduction to Elemental Selenium by Anaerobic Bacteria in Sediments and Culture: Biogeochemical Significance of a Novel, Sulfate-Independent Respiration. <i>Applied and Environmental Microbiology</i> , 1989, 55, 2333-2343.	1.4	326
92	Acetylene as a substrate in the development of primordial bacterial communities. <i>Origins of Life and Evolution of Biospheres</i> , 1988, 18, 397-407.	0.8	36
93	Methane efflux from the pelagic regions of four lakes. <i>Global Biogeochemical Cycles</i> , 1988, 2, 269-277.	1.9	39
94	Use of "Specific" Inhibitors in Biogeochemistry and Microbial Ecology. <i>Advances in Microbial Ecology</i> , 1988, , 285-383.	0.1	419
95	Big Soda Lake (Nevada). 2. Pelagic sulfate reduction. <i>Limnology and Oceanography</i> , 1987, 32, 794-803.	1.6	39
96	Sources and flux of natural gases from Mono Lake, California. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 2915-2929.	1.6	144
97	Reduction of Selenate to Selenide by Sulfate-Respiring Bacteria: Experiments with Cell Suspensions and Estuarine Sediments. <i>Applied and Environmental Microbiology</i> , 1987, 53, 1365-1369.	1.4	118
98	Formation of Methane and Carbon Dioxide from Dimethylselenide in Anoxic Sediments and by a Methanogenic Bacterium. <i>Applied and Environmental Microbiology</i> , 1986, 52, 1031-1036.	1.4	59
99	Metabolism of Reduced Methylated Sulfur Compounds in Anaerobic Sediments and by a Pure Culture of an Estuarine Methanogen. <i>Applied and Environmental Microbiology</i> , 1986, 52, 1037-1045.	1.4	238
100	Isolation of anaerobic oxalate-degrading bacteria from freshwater lake sediments. <i>Archives of Microbiology</i> , 1985, 141, 8-13.	1.0	59
101	Denitrification in San Francisco Bay Intertidal Sediments. <i>Applied and Environmental Microbiology</i> , 1984, 47, 1106-1112.	1.4	118
102	Chemistry and Microbiology of a Sewage Spill in South San Francisco Bay. <i>Estuaries and Coasts</i> , 1983, 6, 399.	1.7	10
103	Seasonal changes in the chemistry and biology of a meromictic lake (Big Soda Lake, Nevada, U.S.A.). <i>Hydrobiologia</i> , 1983, 105, 195-206.	1.0	45
104	Distribution, abundance and carbon isotopic composition of gaseous hydrocarbons in Big Soda Lake, Nevada: An alkaline, meromictic lake. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 2107-2114.	1.6	84
105	Autotrophic processes in meromictic Big Soda Lake, Nevada. <i>Limnology and Oceanography</i> , 1983, 28, 1049-1061.	1.6	85
106	Hydrogen Metabolism by Decomposing Cyanobacterial Aggregates in Big Soda Lake, Nevada. <i>Applied and Environmental Microbiology</i> , 1983, 45, 1519-1525.	1.4	27
107	Anaerobic Oxidation of Acetylene by Estuarine Sediments and Enrichment Cultures. <i>Applied and Environmental Microbiology</i> , 1981, 41, 396-403.	1.4	134
108	Denitrification Associated with Periphyton Communities. <i>Applied and Environmental Microbiology</i> , 1981, 42, 745-748.	1.4	46

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109	Relationship between productivity and N ₂ (C ₂ H ₂) fixation in a <i>Thalassia testudinum</i> community. <i>Limnology and Oceanography</i> , 1979, 24, 117-125.	1.6	84
110	Microbial sulfate reduction measured by an automated electrical impedance technique. <i>Geomicrobiology Journal</i> , 1979, 1, 355-372.	1.0	29
111	Depletion of adenosine triphosphate in <i>Desulfovibrio</i> by oxyanions of group VI elements. <i>Current Microbiology</i> , 1979, 3, 101-103.	1.0	139
112	Methanogenic activity in plankton samples and fish intestines A mechanism for in situ methanogenesis in oceanic surface waters. <i>Limnology and Oceanography</i> , 1979, 24, 1136-1141.	1.6	119
113	Sulfate reduction and methanogenesis in marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1978, 42, 209-214.	1.6	305
114	Diurnal fluctuations of O ₂ , N ₂ , and CH ₄ in the rhizosphere of <i>Thalassia testudinum</i> . <i>Limnology and Oceanography</i> , 1977, 22, 566-570.	1.6	68
115	Inhibition of Methanogenesis in Marine Sediments by Acetylene and Ethylene: Validity of the Acetylene Reduction Assay for Anaerobic Microcosms. <i>Applied Microbiology</i> , 1975, 30, 707-709.	0.6	53
116	Methane Production in Shallow-Water, Tropical Marine Sediments. <i>Applied Microbiology</i> , 1975, 30, 602-608.	0.6	59
117	Inhibition of Methanogenesis in Marine Sediments by Acetylene and Ethylene: Validity of the Acetylene Reduction Assay for Anaerobic Microcosms. <i>Applied Microbiology</i> , 1975, 30, 707-709.	0.6	94
118	Regulation of Arsenic Metabolic Pathways in Prokaryotes. , 0, , 195-210.		4
119	Methods for Detection of Arsenate-Respiring Bacteria: Advances, Cautions, and Caveats. , 0, , 283-P1.		2
120	Microbial Transformations of Arsenic in the Subsurface. , 0, , 77-90.		1
121	Anaerobic Respiratory Iron(II) Oxidation. , 0, , 157-171.		1
122	Dissimilatory Reduction of Selenate and Arsenate in Nature. , 0, , 199-224.		23