John F Stolz

List of Publications by Year in descending order

72 papers	8,658 citations	87723 38 h-index	95083 68 g-index
77 all docs	77 docs citations	77 times ranked	7229 citing authors

#	Article	IF	Citations
1	Discovery of Chlorophyll d: Isolation and Characterization of a Far-Red Cyanobacterium from the Original Site of Manning and Strain (1943) at Moss Beach, California. Microorganisms, 2022, 10, 819.	1.6	2
2	Editorial: microbes vs. metals: harvest and recycle. FEMS Microbiology Ecology, 2021, 97, .	1.3	6
3	The physiology and evolution of microbial selenium metabolism. Metallomics, 2021, 13, .	1.0	14
4	Determining conventional and unconventional oil and gas well brines in natural samples III: mass ratio analyses using both anions and cations. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2020, 55, 24-32.	0.9	7
5	Arsenic and the gastrointestinal tract microbiome. Environmental Microbiology Reports, 2020, 12, 136-159.	1.0	41
6	Microbial selenium metabolism: a brief history, biogeochemistry and ecophysiology. FEMS Microbiology Ecology, 2020, 96, .	1.3	24
7	Arsenolipids in Cultured Picocystis Strain ML and Their Occurrence in Biota and Sediment from Mono Lake, California. Life, 2020, 10, 93.	1.1	20
8	Methane, arsenic, selenium and the origins of the DMSO reductase family. Scientific Reports, 2020, 10, 10946.	1.6	20
9	Functional mononuclear molybdenum enzymes: challenges and triumphs in molecular cloning, expression, and isolation. Journal of Biological Inorganic Chemistry, 2020, 25, 547-569.	1.1	12
10	The center of olfactory bulbâ€seeded Î±â€synucleinopathy is the limbic system and the ensuing pathology is higher in male than in female mice. Brain Pathology, 2019, 29, 741-770.	2.1	18
11	Respiratory Selenite Reductase from Bacillus selenitireducens Strain MLS10. Journal of Bacteriology, 2019, 201, .	1.0	37
12	Unraveling the inner workings of respiratory arsenate reductase. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9051-9053.	3.3	8
13	Living Dendrolitic Microbial Mats in Hamelin Pool, Shark Bay, Western Australia. Geosciences (Switzerland), 2018, 8, 212.	1.0	19
14	Gaia and her microbiome. FEMS Microbiology Ecology, 2017, 93, fiw247.	1.3	29
15	Autotrophic microbial arsenotrophy in arsenic-rich soda lakes. FEMS Microbiology Letters, 2017, 364, .	0.7	49
16	Metabolomic changes in response to toxic arsenite. Environmental Microbiology, 2017, 19, 413-414.	1.8	0
17	A Microbial Arsenic Cycle in Sediments of an Acidic Mine Impoundment: Herman Pit, Clear Lake, California. Geomicrobiology Journal, 2016, 33, 677-689.	1.0	9
18	Well water contamination in a rural community in southwestern Pennsylvania near unconventional shale gas extraction. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2015, 50, 516-528.	0.9	32

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19	Foreword. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2015, 50, 433-433.	0.9	0
20	Arsenic induces structural and compositional colonic microbiome change and promotes host nitrogen and amino acid metabolism. Toxicology and Applied Pharmacology, 2015, 289, 397-408.	1.3	89
21	Mapping the protein profile involved in the biotransformation of organoarsenicals using an arsenic metabolizing bacterium. Metallomics, 2014, 6, 1958-1969.	1.0	12
22	Nitrate and periplasmic nitrate reductases. Chemical Society Reviews, 2014, 43, 676-706.	18.7	260
23	Microbial Reduction of Chromate in the Presence of Nitrate by Three Nitrate Respiring Organisms. Frontiers in Microbiology, 2012, 3, 416.	1.5	41
24	Desulfohalophilus alkaliarsenatis gen. nov., sp. nov., an extremely halophilic sulfate- and arsenate-respiring bacterium from Searles Lake, California. Extremophiles, 2012, 16, 727-742.	0.9	48
25	Modern stromatolite phototrophic communities: a comparative study of procaryote and eucaryote phototrophs using variable chlorophyll fluorescence. FEMS Microbiology Ecology, 2012, 82, 584-596.	1.3	5
26	ArxA, a new clade of arsenite oxidase within the DMSO reductase family of molybdenum oxidoreductases. Environmental Microbiology, 2012, 14, 1635-1645.	1.8	134
27	A Bacterium That Can Grow by Using Arsenic Instead of Phosphorus. Science, 2011, 332, 1163-1166.	6.0	422
28	A proteome investigation of roxarsone degradation by Alkaliphilus oremlandii strain OhILAs. Metallomics, 2010, 2, 133-139.	1.0	19
29	Microbial Arsenic Metabolism: New Twists on an Old Poison. Microbe Magazine, 2010, 5, 53-59.	0.4	57
30	Microbial Mineral Weathering for Nutrient Acquisition Releases Arsenic. Applied and Environmental Microbiology, 2009, 75, 2558-2565.	1.4	95
31	Flat laminated microbial mat communities. Earth-Science Reviews, 2009, 96, 163-172.	4.0	84
32	Respiratory arsenate reductase as a bidirectional enzyme. Biochemical and Biophysical Research Communications, 2009, 382, 298-302.	1.0	117
33	Arsenic in the Evolution of Earth and Extraterrestrial Ecosystems. Geomicrobiology Journal, 2009, 26, 522-536.	1.0	123
34	Transformation of Inorganic and Organic Arsenic by<scp>Alkaliphilus oremlandii</scp>sp. nov. Strain OhILAs. Annals of the New York Academy of Sciences, 2008, 1125, 230-241.	1.8	90
35	Light-Dependant Biostabilisation of Sediments by Stromatolite Assemblages. PLoS ONE, 2008, 3, e3176.	1.1	50
36	Biotransformation of 3-Nitro-4-hydroxybenzene Arsonic Acid (Roxarsone) and Release of Inorganic Arsenic byClostridiumSpecies. Environmental Science & Technology, 2007, 41, 818-823.	4.6	223

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37	The Complete Genome Sequence and Analysis of the Epsilonproteobacterium Arcobacter butzleri. PLoS ONE, 2007, 2, e1358.	1.1	203
38	Arsenic and Selenium in Microbial Metabolism. Annual Review of Microbiology, 2006, 60, 107-130.	2.9	573
39	Whither or wither geomicrobiology in the era of 'community metagenomics'. Nature Reviews Microbiology, 2005, 3, 572-578.	13.6	59
40	A Microbial Arsenic Cycle in a Salt-Saturated, Extreme Environment. Science, 2005, 308, 1305-1308.	6.0	158
41	Arsenic, microbes and contaminated aquifers. Trends in Microbiology, 2005, 13, 45-49.	3.5	470
42	The microbial arsenic cycle in Mono Lake, California. FEMS Microbiology Ecology, 2004, 48, 15-27.	1.3	166
43	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
44	The respiratory arsenate reductase fromBacillus selenitireducensstrain MLS10. FEMS Microbiology Letters, 2003, 226, 107-112.	0.7	185
45	The Ecology of Arsenic. Science, 2003, 300, 939-944.	6.0	1,336
46	Isolation of a New Arsenate-Respiring Bacterium--Physiological and Phylogenetic Studies. Geomicrobiology Journal, 2002, 19, 41-52.	1.0	48
47	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
48	TEM analysis of microbial mediated sedimentation and lithification in modern marine stromatolites. American Mineralogist, 2001, 86, 826-833.	0.9	38
49	Selenihalanaerobacter shriftii gen. nov., sp. nov., a halophilic anaerobe from Dead Sea sediments that respires selenate. Archives of Microbiology, 2001, 175, 208-219.	1.0	110
50	Evidence for Iron-Dependent Nitrate Respiration in the Dissimilatory Iron-Reducing Bacterium Geobacter metallireducens. Applied and Environmental Microbiology, 2001, 67, 3750-3752.	1.4	29
51	Simultaneous Reduction of Nitrate and Selenate by Cell Suspensions of Selenium-Respiring Bacteria. Applied and Environmental Microbiology, 1999, 65, 4385-4392.	1.4	121
52	Note: Sulfurospirillum barnesii sp. nov. and Sulfurospirillum arsenophilum sp. nov., new members of the Sulfurospirillum clade of the ĩµ-Proteobacteria. International Journal of Systematic and Evolutionary Microbiology, 1999, 49, 1177-1180.	0.8	183
53	Bacterial respiration of arsenic and selenium. FEMS Microbiology Reviews, 1999, 23, 615-627.	3.9	493
54	Bacillus arsenicoselenatis , sp. nov., and Bacillus selenitireducens , sp. nov.: two haloalkaliphiles from Mono Lake, California that respire oxyanions of selenium and arsenic. Archives of Microbiology, 1998, 171, 19-30.	1.0	416

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55	Evidence for a novel nitrate reductase in the dissimilatory iron-reducing bacteriumGeobacter metallireducens. FEMS Microbiology Letters, 1993, 106, 53-58.	0.7	22
56	The dysaerobic zone revisited: a magnetic facies?. Geological Society Special Publication, 1991, 58, 187-199.	0.8	22
57	Pigment-protein diversity in chlorosomes of green phototrophic bacteria. Archives of Microbiology, 1990, 154, 422-427.	1.0	18
58	Mobilifilum chasei: Morphology and ecology of a spirochete from an intertidal stratified microbial mat community. Archives of Microbiology, 1990, 153, 422-427.	1.0	13
59	Distribution of phototrophic microbes in the flat laminated microbial mat at Laguna Figueroa, Baja California, Mexico. BioSystems, 1990, 23, 345-357.	0.9	58
60	Biogenic magnetite in stromatolites. II. Occurrence in ancient sedimentary environments. Precambrian Research, 1989, 43, 305-315.	1.2	68
61	Biogenic magnetite in stromatolites. I. Occurrence in modern sedimentary environments. Precambrian Research, 1989, 43, 295-304.	1.2	25
62	Biogenic magnetite as a primary remanence carrier in limestone deposits. Physics of the Earth and Planetary Interiors, 1987, 46, 289-303.	0.7	75
63	Anaerobic production of magnetite by a dissimilatory iron-reducing microorganism. Nature, 1987, 330, 252-254.	13.7	900
64	Magnetotactic bacteria and single-domain magnetite in hemipelagic sediments. Nature, 1986, 321, 849-851.	13.7	219
65	The microbial community at laguna Figueroa, Baja California Mexico: From miles to microns. Origins of Life and Evolution of Biospheres, 1985, 15, 347-352.	0.8	14
66	Elso sterrenberg barghoorn June 30, 1915 â€“ January 27, 1984. Origins of Life and Evolution of Biospheres, 1984, 15, 1-3.	0.8	0
67	The stratified microbial community at Laguna Figueroa, Baja California, Mexico: A possible model for prephanerozoic laminated microbial communities preserved in cherts. Origins of Life and Evolution of Biospheres, 1984, 14, 671-679.	0.6	23
68	A NEW STRAIN OFPARATETRAMITUS JUGOSUSFROM LAGUNA FIGUEROA, BAJA CALIFORNIA, MEXICO. Biological Bulletin, 1983, 165, 241-264.	0.7	15
69	Fine structure of the stratified microbial community at Laguna Figueroa, Baja California, Mexico. I. Methods of in situ study of the laminated sediments. Precambrian Research, 1983, 20, 479-492.	1.2	46
70	Distinctive Microbial Structures and the Pre-Phanerozoic Fossil Record. Neoproterozoic-Cambrian Tectonics, Global Change and Evolution: A Focus on South Western Gondwana, 1983, 7, 335-369.	0.2	0
71	The microbial community in the layered sediments at Laguna Figueroa, Baja California, Mexico: Does it have Precambrian analogues?. Precambrian Research, 1980, 11, 93-123.	1.2	99
72	Endosymbiotic bacteria associated with the intracellular green algae ofHydra viridis. Current Microbiology, 1978, 1, 227-232.	1.0	17