## Valeria Souza Saldivar

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Sorcerer II Global Ocean Sampling Expedition: Northwest Atlantic through Eastern Tropical Pacific. PLoS Biology, 2007, 5, e77.	5.6	1,757
2	Stress-Induced Mutagenesis in Bacteria. Science, 2003, 300, 1404-1409.	12.6	508
3	Biodiversity and biogeography of phages in modern stromatolites and thrombolites. Nature, 2008, 452, 340-343.	27.8	251
4	Timing and rate of speciation in Agave (Agavaceae). Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9124-9129.	7.1	230
5	Metagenomic and stable isotopic analyses of modern freshwater microbialites in Cuatro Ciénegas, Mexico. Environmental Microbiology, 2009, 11, 16-34.	3.8	204
6	An endangered oasis of aquatic microbial biodiversity in the Chihuahuan desert. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6565-6570.	7.1	197
7	Understanding the evolutionary relationships and major traits of Bacillus through comparative genomics. BMC Genomics, 2010, 11, 332.	2.8	143
8	Ecoenzymatic stoichiometry at the extremes: How microbes cope in an ultra-oligotrophic desert soil. Soil Biology and Biochemistry, 2015, 87, 34-42.	8.8	134
9	Effects of phosphorus enrichment and grazing snails on modern stromatolitic microbial communities. Freshwater Biology, 2005, 50, 1808-1825.	2.4	116
10	Rhizobium etli and Rhizobium gallicum Nodulate Common Bean ( Phaseolus vulgaris ) in a Traditionally Managed Milpa Plot in Mexico: Population Genetics and Biogeographic Implications. Applied and Environmental Microbiology, 2003, 69, 884-893.	3.1	105
11	The genome of <i>Bacillus coahuilensis</i> reveals adaptations essential for survival in the relic of an ancient marine environment. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5803-5808.	7.1	94
12	Antagonism influences assembly of a <i>Bacillus</i> guild in a local community and is depicted as a food-chain network. ISME Journal, 2013, 7, 487-497.	9.8	94
13	Phenotyping and Genotyping of Sporothrix schenckii Isolates According to Geographic Origin and Clinical Form of Sporotrichosis. Journal of Clinical Microbiology, 2002, 40, 3004-3011.	3.9	87
14	Evolutionary genetics and biogeographic structure of Rhizobium gallicum sensu lato, a widely distributed bacterial symbiont of diverse legumes. Molecular Ecology, 2005, 14, 4033-4050.	3.9	87
15	Molecular Diversity of Rabies Viruses Associated with Bats in Mexico and Other Countries of the Americas. Journal of Clinical Microbiology, 2006, 44, 1697-1710.	3.9	87
16	Microbial endemism: does phosphorus limitation enhance speciation?. Nature Reviews Microbiology, 2008, 6, 559-564.	28.6	87
17	The Cuatro Ciénegas Basin in Coahuila, Mexico: An Astrobiological Precambrian Park. Astrobiology, 2012, 12, 641-647.	3.0	86
18	Comparative Metagenomics of Two Microbial Mats at Cuatro Ciénegas Basin I: Ancient Lessons on How to Cope with an Environment Under Severe Nutrient Stress. Astrobiology, 2012, 12, 648-658.	3.0	85

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19	Comparative Metagenomics of Two Microbial Mats at Cuatro Ciénegas Basin II: Community Structure and Composition in Oligotrophic Environments. Astrobiology, 2012, 12, 659-673.	3.0	83
20	Microbial macroecology: highly structured prokaryotic soil assemblages in a tropical deciduous forest. Global Ecology and Biogeography, 2005, 14, 241-248.	5.8	77
21	Diversity of culturable thermo-resistant aquatic bacteria along an environmental gradient in Cuatro Ciénegas, Coahuila, México. Antonie Van Leeuwenhoek, 2011, 99, 303-318.	1.7	62
22	Nutrient Stoichiometry Shapes Microbial Community Structure in an Evaporitic Shallow Pond. Frontiers in Microbiology, 2017, 8, 949.	3.5	62
23	How To Live with Phosphorus Scarcity in Soil and Sediment: Lessons from Bacteria. Applied and Environmental Microbiology, 2016, 82, 4652-4662.	3.1	60
24	Bacterial Communities and the Nitrogen Cycle in the Gypsum Soils of Cuatro Ciénegas Basin, Coahuila: A Mars Analogue. Astrobiology, 2012, 12, 699-709.	3.0	59
25	Enrichment experiment changes microbial interactions in an ultra-oligotrophic environment. Frontiers in Microbiology, 2015, 6, 246.	3.5	57
26	High diversity and suggested endemicity of culturable Actinobacteria in an extremely oligotrophic desert oasis. PeerJ, 2017, 5, e3247.	2.0	57
27	Molecular epizootiology of rabies associated with terrestrial carnivores in Mexico. Virus Research, 2005, 111, 13-27.	2.2	55
28	Bacillus coahuilensis sp. nov., a moderately halophilic species from a desiccation lagoon in the Cuatro Cienegas Valley in Coahuila, Mexico. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 919-923.	1.7	52
29	Detection of Genetic Variation in Taenia solium. Journal of Parasitology, 2003, 89, 1250-1254.	0.7	51
30	The lost world of Cuatro Ciénegas Basin, a relictual bacterial niche in a desert oasis. ELife, 2018, 7, .	6.0	51
31	An analysis of the evolutionary relationships of integron integrases, with emphasis on the prevalence of class 1 integrons in Escherichia coli isolates from clinical and environmental origins. Microbiology (United Kingdom), 2008, 154, 94-102.	1.8	50
32	Divergence and Phylogeny of Firmicutes from the Cuatro Ciénegas Basin, Mexico: A Window to an Ancient Ocean. Astrobiology, 2012, 12, 674-684.	3.0	50
33	From Isozymes to Genomics: Population Genetics and Conservation of Agave in México. Botanical Review, The, 2013, 79, 483-506.	3.9	50
34	Microbial secondary succession in soil microcosms of a desert oasis in the Cuatro Cienegas Basin, Mexico. PeerJ, 2013, 1, e47.	2.0	50
35	Water–sediment niche differentiation in ancient marine lineages of <i>Exiguobacterium</i> endemic to the Cuatro Cienegas Basin. Environmental Microbiology, 2012, 14, 2323-2333.	3.8	48
36	Diversity of aquatic prokaryotic communities in the Cuatro Cienegas basin. FEMS Microbiology Ecology, 2008, 65, 50-60.	2.7	45

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37	Parallel Evolution and Horizontal Gene Transfer of the <i>pst</i> Operon in <i>Firmicutes</i> from Oligotrophic Environments. International Journal of Evolutionary Biology, 2011, 2011, 1-10.	1.0	45
38	Understanding the Mechanisms Behind the Response to Environmental Perturbation in Microbial Mats: A Metagenomic-Network Based Approach. Frontiers in Microbiology, 2018, 9, 2606.	3.5	41
39	A genomic population genetics analysis of the pathogenic enterocyte effacement island in Escherichia coli: The search for the unit of selection. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1542-1547.	7.1	36
40	Pseudomonas cuatrocienegasensis sp. nov., isolated from an evaporating lagoon in the Cuatro Cienegas valley in Coahuila, Mexico. International Journal of Systematic and Evolutionary Microbiology, 2009, 59, 1416-1420.	1.7	35
41	Variability of rRNA Operon Copy Number and Growth Rate Dynamics of Bacillus Isolated from an Extremely Oligotrophic Aquatic Ecosystem. Frontiers in Microbiology, 2015, 6, 1486.	3.5	35
42	MEBS, a software platform to evaluate large (meta)genomic collections according to their metabolic machinery: unraveling the sulfur cycle. GigaScience, 2017, 6, 1-17.	6.4	35
43	Spatial heterogeneity of physicochemical properties explains differences in microbial composition in arid soils from Cuatro Cienegas, Mexico. PeerJ, 2016, 4, e2459.	2.0	35
44	Evolutionary Dynamics of Insertion Sequences in Relation to the Evolutionary Histories of the Chromosome and Symbiotic Plasmid Genes of Rhizobium etli Populations. Applied and Environmental Microbiology, 2010, 76, 6504-6513.	3.1	34
45	Spatially Resolved Genomic, Stable Isotopic, and Lipid Analyses of a Modern Freshwater Microbialite from Cuatro Ciénegas, Mexico. Astrobiology, 2012, 12, 685-698.	3.0	33
46	Nutrient Dependent Cross-Kingdom Interactions: Fungi and Bacteria From an Oligotrophic Desert Oasis. Frontiers in Microbiology, 2018, 9, 1755.	3.5	33
47	Twoâ€role model of an interaction network of freeâ€living γâ€proteobacteria from an oligotrophic environment. Environmental Microbiology, 2014, 16, 1366-1377.	3.8	31
48	Travel, Sex, and Food: What's Speciation Got to Do with It?. Astrobiology, 2012, 12, 634-640.	3.0	30
49	Response of a Stoichiometrically Imbalanced Ecosystem to Manipulation of Nutrient Supplies and Ratios. PLoS ONE, 2015, 10, e0123949.	2.5	30
50	Relationship between soil P fractions and microbial biomass in an oligotrophic grasslandâ€desert scrub system. Ecological Research, 2014, 29, 463-472.	1.5	28
51	The genomic sequence of <i>Exiguobacterium chiriqhucha</i> str. N139 reveals a species that thrives in cold waters and extreme environmental conditions. PeerJ, 2017, 5, e3162.	2.0	27
52	Characterization of a novel biosurfactant producing Pseudomonas koreensis lineage that is endemic to Cuatro Ciénegas Basin. Systematic and Applied Microbiology, 2011, 34, 531-535.	2.8	26
53	Editorial: The Role of Microbial Communities in Tropical Ecosystems. Frontiers in Microbiology, 2016, 7, 1805.	3.5	24
54	Mesocosms of Aquatic Bacterial Communities from the Cuatro Cienegas Basin (Mexico): A Tool to Test Bacterial Community Response to Environmental Stress. Microbial Ecology, 2012, 64, 346-358.	2.8	23

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55	Phylogenetic and molecular clock inferences of cyanobacterial strains within Rivulariaceae from distant environments. FEMS Microbiology Letters, 2011, 316, 90-99.	1.8	22
56	Vegetation-soil system controls soil mechanisms for nitrogen transformations in an oligotrophic Mexican desert. Journal of Arid Environments, 2015, 114, 62-69.	2.4	22
57	Bacterial Diversity and Interaction Networks of Agave lechuguilla Rhizosphere Differ Significantly From Bulk Soil in the Oligotrophic Basin of Cuatro Cienegas. Frontiers in Plant Science, 2020, 11, 1028.	3.6	22
58	Diversity across Seasons of Culturable <i>Pseudomonas</i> from a Desiccation Lagoon in Cuatro Cienegas, Mexico. International Journal of Microbiology, 2012, 2012, 1-10.	2.3	21
59	Phenotypic Microdiversity and Phylogenetic Signal Analysis of Traits Related to Social Interaction in Bacillus spp. from Sediment Communities. Frontiers in Microbiology, 2017, 8, 29.	3.5	21
60	Genomic adaptations in information processing underpin trophic strategy in a whole-ecosystem nutrient enrichment experiment. ELife, 2020, 9, .	6.0	21
61	Multivariate and Phylogenetic Analyses Assessing the Response of Bacterial Mat Communities from an Ancient Oligotrophic Aquatic Ecosystem to Different Scenarios of Long-Term Environmental Disturbance. PLoS ONE, 2015, 10, e0119741.	2.5	20
62	Aquatic bacterial assemblage structure in Pozas Azules, Cuatro Cienegas Basin, Mexico: Deterministic vs. stochastic processes. International Microbiology, 2015, 18, 105-15.	2.4	20
63	Soil aggregates in a tropical deciduous forest: effects on C and N dynamics, and microbial communities as determined by t-RFLPs. Biogeochemistry, 2008, 89, 209-220.	3.5	19
64	Microfungal oasis in an oligotrophic desert: diversity patterns and community structure in three freshwater systems of Cuatro Ciénegas, Mexico. PeerJ, 2016, 4, e2064.	2.0	19
65	Microevolution Analysis of Bacillus coahuilensis Unveils Differences in Phosphorus Acquisition Strategies and Their Regulation. Frontiers in Microbiology, 2016, 7, 58.	3.5	17
66	Drastic changes in aquatic bacterial populations from the Cuatro Cienegas Basin (Mexico) in response to long-term environmental stress. Antonie Van Leeuwenhoek, 2013, 104, 1159-1175.	1.7	16
67	In vitro anticancer activity of methanolic extract of <i>Granulocystopsis</i> sp., a microalgae from an oligotrophic oasis in the Chihuahuan desert. PeerJ, 2020, 8, e8686.	2.0	15
68	Population expansions shared among coexisting bacterial lineages are revealed by genetic evidence. PeerJ, 2014, 2, e696.	2.0	14
69	Agricultural land-use change in a Mexican oligotrophic desert depletes ecosystem stability. PeerJ, 2016, 4, e2365.	2.0	13
70	Evidence of biogeography in surface ocean bacterioplankton assemblages. Marine Genomics, 2008, 1, 55-61.	1.1	12
71	Plant species identity and soil P forms in an oligotrophic grassland–desert scrub system. Journal of Arid Environments, 2014, 108, 29-37.	2.4	12
72	Genetic Characterization of Atypical Citrobacter freundii. PLoS ONE, 2013, 8, e74120.	2.5	12

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73	Spent media from cultures of environmental isolates of Escherichia coli can suppress the deficiency of biofilm formation under anoxic conditions of laboratory E. coli strains. FEMS Microbiology Ecology, 2006, 58, 414-424.	2.7	11
74	Hierarchical clustering of genetic diversity associated to different levels of mutation and recombination in Escherichia coli: A study based on Mexican isolates. Infection, Genetics and Evolution, 2013, 13, 187-197.	2.3	11
75	Selection for Phage Resistance Reduces Virulence of Shigella flexneri. Applied and Environmental Microbiology, 2022, 88, AEM0151421.	3.1	11
76	TwoPseudomonas aeruginosaclonal groups belonging to the PA14 clade are indigenous to the Churince system in Cuatro Ciénegas Coahuila, México. Environmental Microbiology, 2019, 21, 2964-2976.	3.8	10
77	Trophic analysis of the fish community in the Ciénega Churince, Cuatro Ciénegas, Coahuila. PeerJ, 2017, 5, e3637.	2.0	10
78	The response of soil microbial communities to variation in annual precipitation depends on soil nutritional status in an oligotrophic desert. PeerJ, 2017, 5, e4007.	2.0	10
79	Diversity of an uncommon elastic hypersaline microbial mat along a small-scale transect. PeerJ, 0, 10, e13579.	2.0	10
80	Understanding microbial community diversity metrics derived from metagenomes: performance evaluation using simulated data sets. FEMS Microbiology Ecology, 2012, 82, 37-49.	2.7	9
81	Low Mitochondrial Dna Sequence Variation in the Microendemic Cuatro Ciénegas PlatyfishXiphophorus gordoni. Western North American Naturalist, 2013, 73, 224-229.	0.4	9
82	Theoretical analysis of the cost of antagonistic activity for aquatic bacteria in oligotrophic environments. Frontiers in Microbiology, 2015, 6, 490.	3.5	9
83	Microbial Stowaways: Inimitable Survivors or Hopeless Pioneers?. Astrobiology, 2012, 12, 710-715.	3.0	8
84	Methane dynamics in the subsaline ponds of the Chihuahuan Desert: A first assessment. Science of the Total Environment, 2019, 666, 1255-1264.	8.0	8
85	In the Beginning, There Was Fire: Cuatro Ciénegas Basin (CCB) and the Long History of Life on Earth. Cuatro Cielnegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 21-33.	0.4	8
86	Mitochondrial DNA Diversity and Phylogeography of <i>Lucania interioris</i> Inform Biodiversity Conservation in the Cuatro Ciénegas Basin, México. Western North American Naturalist, 2015, 75, 200-208.	0.4	7
87	Population genomics of Vibrionaceae isolated from an endangered oasis reveals local adaptation after an environmental perturbation. BMC Genomics, 2020, 21, 418.	2.8	6
88	The Effect of Nutrients and N:P Ratio on Microbial Communities: Testing the Growth Rate Hypothesis and Its Extensions in Lagunita Pond (Churince). Cuatro Cielnegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 31-41.	0.4	6
89	Toward a Comprehensive Understanding of Environmental Perturbations in Microbial Mats from the Cuatro Cienegas Basin by Network Inference. Cuatro Cielnegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 85-97.	0.4	6
90	The Sulfur Cycle as the Gear of the "Clock of Lifeâ€. The Point of Convergence Between Geological and Genomic Data in the Cuatro Cienegas Basin. Cuatro Cielnegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 67-83.	0.4	5

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91	Evolutionary Rescue of an Environmental Pseudomonas otitidis in Response to Anthropogenic Perturbation. Frontiers in Microbiology, 2020, 11, 563885.	3.5	5
92	Cuatro Ciénegas as an Archaean Astrobiology Park. Cuatro CieÌnegas Basin: an Endangered Hyperdiverse Oasis, 2020, , 219-228.	0.4	5
93	Recent Differentiation of Aquatic Bacterial Communities in a Hydrological System in the Cuatro Ciénegas Basin, After a Natural Perturbation. Frontiers in Microbiology, 2022, 13, 825167.	3.5	4
94	Cytogenetic study of a group of workers exposed to thinner. Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure, 1987, 189, 357-362.	1.2	3
95	The Importance of the Rare Biosphere for Astrobiological Studies and the Diversification and Resilience of Life on Earth. Cuatro Cielnegas Basin: an Endangered Hyperdiverse Oasis, 2020, , 135-148.	0.4	3
96	Involvement of cyclodipeptides in the competition of bacterial communities in the oligotrophic Churince aquatic system of Cuatro Ciénegas Basin dominated by Gammaproteobacteria. Extremophiles, 2018, 22, 73-85.	2.3	2
97	How Divergent Is the Cuatro Ciénegas Oasis? Genomic Studies of Microbial Populations and Niche Differentiation. Cuatro Cielnegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 57-71.	0.4	2
98	Experimental Analysis of Interactions Among Saprotrophic Fungi from A Phosphorous-Poor Desert Oasis in the Chihuahuan Desert. Mycobiology, 2020, 48, 410-417.	1.7	2
99	The Effect of Nutrient Availability on the Ecological Role of Filamentous Microfungi: Lessons from Elemental Stoichiometry. Cuatro Cielnegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 43-53.	0.4	2
100	MicNet toolbox: Visualizing and unraveling a microbial network. PLoS ONE, 2022, 17, e0259756.	2.5	1
101	The Niche at the Edge of Life or the Microbial Ecology (Including Microfungi) of Cuatro Ciénegas: Mutualisms with Locals, Antagonisms Against Foreigners. Cuatro Cielnegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 73-82.	0.4	0