

# Valeria Souza Saldivar

## List of Publications by Year in descending order

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101  
papers

6,471  
citations

108046

37  
h-index

78623

77  
g-index

116  
all docs

116  
docs citations

116  
times ranked

8171  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selection for Phage Resistance Reduces Virulence of <i>Shigella flexneri</i> . <i>Applied and Environmental Microbiology</i> , 2022, 88, AEM0151421.	1.4	11
2	Recent Differentiation of Aquatic Bacterial Communities in a Hydrological System in the Cuatro Ci�negas Basin, After a Natural Perturbation. <i>Frontiers in Microbiology</i> , 2022, 13, 825167.	1.5	4
3	MicNet toolbox: Visualizing and unraveling a microbial network. <i>PLoS ONE</i> , 2022, 17, e0259756.	1.1	1
4	Bacterial Diversity and Interaction Networks of <i>Agave lechuguilla</i> Rhizosphere Differ Significantly From Bulk Soil in the Oligotrophic Basin of Cuatro Cienegas. <i>Frontiers in Plant Science</i> , 2020, 11, 1028.	1.7	22
5	Experimental Analysis of Interactions Among Saprotrophic Fungi from A Phosphorous-Poor Desert Oasis in the Chihuahuan Desert. <i>Mycobiology</i> , 2020, 48, 410-417.	0.6	2
6	Population genomics of <i>Vibrionaceae</i> isolated from an endangered oasis reveals local adaptation after an environmental perturbation. <i>BMC Genomics</i> , 2020, 21, 418.	1.2	6
7	Evolutionary Rescue of an Environmental <i>Pseudomonas otitidis</i> in Response to Anthropogenic Perturbation. <i>Frontiers in Microbiology</i> , 2020, 11, 563885.	1.5	5
8	Genomic adaptations in information processing underpin trophic strategy in a whole-ecosystem nutrient enrichment experiment. <i>ELife</i> , 2020, 9, .	2.8	21
9	In vitro anticancer activity of methanolic extract of <i>Granulocystopsis</i> sp., a microalgae from an oligotrophic oasis in the Chihuahuan desert. <i>PeerJ</i> , 2020, 8, e8686.	0.9	15
10	Cuatro Ci�negas as an Archaean Astrobiology Park. <i>Cuatro Cielnegas Basin: an Endangered Hyperdiverse Oasis</i> , 2020, , 219-228.	0.4	5
11	The Importance of the Rare Biosphere for Astrobiological Studies and the Diversification and Resilience of Life on Earth. <i>Cuatro Cielnegas Basin: an Endangered Hyperdiverse Oasis</i> , 2020, , 135-148.	0.4	3
12	Two <i>Pseudomonas aeruginosa</i> clonal groups belonging to the PA14 clade are indigenous to the Churince system in Cuatro Ci�negas Coahuila, M�xico. <i>Environmental Microbiology</i> , 2019, 21, 2964-2976.	1.8	10
13	Methane dynamics in the subsaline ponds of the Chihuahuan Desert: A first assessment. <i>Science of the Total Environment</i> , 2019, 666, 1255-1264.	3.9	8
14	Involvement of cyclodipeptides in the competition of bacterial communities in the oligotrophic Churince aquatic system of Cuatro Ci�negas Basin dominated by Gammaproteobacteria. <i>Extremophiles</i> , 2018, 22, 73-85.	0.9	2
15	How Divergent Is the Cuatro Ci�negas Oasis? Genomic Studies of Microbial Populations and Niche Differentiation. <i>Cuatro Cielnegas Basin: an Endangered Hyperdiverse Oasis</i> , 2018, , 57-71.	0.4	2
16	The Niche at the Edge of Life or the Microbial Ecology (Including Microfungi) of Cuatro Ci�negas: Mutualisms with Locals, Antagonisms Against Foreigners. <i>Cuatro Cielnegas Basin: an Endangered Hyperdiverse Oasis</i> , 2018, , 73-82.	0.4	0
17	Understanding the Mechanisms Behind the Response to Environmental Perturbation in Microbial Mats: A Metagenomic-Network Based Approach. <i>Frontiers in Microbiology</i> , 2018, 9, 2606.	1.5	41
18	The Sulfur Cycle as the Gear of the "Clock of Life": The Point of Convergence Between Geological and Genomic Data in the Cuatro Cienegas Basin. <i>Cuatro Cielnegas Basin: an Endangered Hyperdiverse Oasis</i> , 2018, , 67-83.	0.4	5

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19	Nutrient Dependent Cross-Kingdom Interactions: Fungi and Bacteria From an Oligotrophic Desert Oasis. <i>Frontiers in Microbiology</i> , 2018, 9, 1755.	1.5	33
20	The Effect of Nutrients and N:P Ratio on Microbial Communities: Testing the Growth Rate Hypothesis and Its Extensions in Lagunita Pond (Churince). <i>Cuatro Ciénegas Basin: an Endangered Hyperdiverse Oasis</i> , 2018, , 31-41.	0.4	6
21	Toward a Comprehensive Understanding of Environmental Perturbations in Microbial Mats from the Cuatro Ciénegas Basin by Network Inference. <i>Cuatro Ciénegas Basin: an Endangered Hyperdiverse Oasis</i> , 2018, , 85-97.	0.4	6
22	The lost world of Cuatro Ciénegas Basin, a relictual bacterial niche in a desert oasis. <i>ELife</i> , 2018, 7, .	2.8	51
23	The Effect of Nutrient Availability on the Ecological Role of Filamentous Microfungi: Lessons from Elemental Stoichiometry. <i>Cuatro Ciénegas Basin: an Endangered Hyperdiverse Oasis</i> , 2018, , 43-53.	0.4	2
24	In the Beginning, There Was Fire: Cuatro Ciénegas Basin (CCB) and the Long History of Life on Earth. <i>Cuatro Ciénegas Basin: an Endangered Hyperdiverse Oasis</i> , 2018, , 21-33.	0.4	8
25	MEBS, a software platform to evaluate large (meta)genomic collections according to their metabolic machinery: unraveling the sulfur cycle. <i>GigaScience</i> , 2017, 6, 1-17.	3.3	35
26	Phenotypic Microdiversity and Phylogenetic Signal Analysis of Traits Related to Social Interaction in <i>Bacillus</i> spp. from Sediment Communities. <i>Frontiers in Microbiology</i> , 2017, 8, 29.	1.5	21
27	Nutrient Stoichiometry Shapes Microbial Community Structure in an Evaporitic Shallow Pond. <i>Frontiers in Microbiology</i> , 2017, 8, 949.	1.5	62
28	The genomic sequence of <i>Exiguobacterium chiriqhucha</i> str. N139 reveals a species that thrives in cold waters and extreme environmental conditions. <i>PeerJ</i> , 2017, 5, e3162.	0.9	27
29	High diversity and suggested endemism of culturable Actinobacteria in an extremely oligotrophic desert oasis. <i>PeerJ</i> , 2017, 5, e3247.	0.9	57
30	Trophic analysis of the fish community in the Ciénega Churince, Cuatro Ciénegas, Coahuila. <i>PeerJ</i> , 2017, 5, e3637.	0.9	10
31	The response of soil microbial communities to variation in annual precipitation depends on soil nutritional status in an oligotrophic desert. <i>PeerJ</i> , 2017, 5, e4007.	0.9	10
32	Microevolution Analysis of <i>Bacillus coahuilensis</i> Unveils Differences in Phosphorus Acquisition Strategies and Their Regulation. <i>Frontiers in Microbiology</i> , 2016, 7, 58.	1.5	17
33	Editorial: The Role of Microbial Communities in Tropical Ecosystems. <i>Frontiers in Microbiology</i> , 2016, 7, 1805.	1.5	24
34	How To Live with Phosphorus Scarcity in Soil and Sediment: Lessons from Bacteria. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4652-4662.	1.4	60
35	Microfungal oasis in an oligotrophic desert: diversity patterns and community structure in three freshwater systems of Cuatro Ciénegas, Mexico. <i>PeerJ</i> , 2016, 4, e2064.	0.9	19
36	Agricultural land-use change in a Mexican oligotrophic desert depletes ecosystem stability. <i>PeerJ</i> , 2016, 4, e2365.	0.9	13

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37	Spatial heterogeneity of physicochemical properties explains differences in microbial composition in arid soils from Cuatro Ciénegas, Mexico. <i>PeerJ</i> , 2016, 4, e2459.	0.9	35
38	Enrichment experiment changes microbial interactions in an ultra-oligotrophic environment. <i>Frontiers in Microbiology</i> , 2015, 6, 246.	1.5	57
39	Theoretical analysis of the cost of antagonistic activity for aquatic bacteria in oligotrophic environments. <i>Frontiers in Microbiology</i> , 2015, 6, 490.	1.5	9
40	Response of a Stoichiometrically Imbalanced Ecosystem to Manipulation of Nutrient Supplies and Ratios. <i>PLoS ONE</i> , 2015, 10, e0123949.	1.1	30
41	Ecoenzymatic stoichiometry at the extremes: How microbes cope in an ultra-oligotrophic desert soil. <i>Soil Biology and Biochemistry</i> , 2015, 87, 34-42.	4.2	134
42	Mitochondrial DNA Diversity and Phylogeography of <i>Lucania interioris</i> Inform Biodiversity Conservation in the Cuatro Ciénegas Basin, México. <i>Western North American Naturalist</i> , 2015, 75, 200-208.	0.2	7
43	Vegetation-soil system controls soil mechanisms for nitrogen transformations in an oligotrophic Mexican desert. <i>Journal of Arid Environments</i> , 2015, 114, 62-69.	1.2	22
44	Variability of rRNA Operon Copy Number and Growth Rate Dynamics of <i>Bacillus</i> Isolated from an Extremely Oligotrophic Aquatic Ecosystem. <i>Frontiers in Microbiology</i> , 2015, 6, 1486.	1.5	35
45	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. <i>PLoS ONE</i> , 2015, 10, e0119741.	1.1	20
46	Aquatic bacterial assemblage structure in Pozas Azules, Cuatro Ciénegas Basin, Mexico: Deterministic vs. stochastic processes. <i>International Microbiology</i> , 2015, 18, 105-15.	1.1	20
47	Two-role model of an interaction network of free-living $\beta$ -proteobacteria from an oligotrophic environment. <i>Environmental Microbiology</i> , 2014, 16, 1366-1377.	1.8	31
48	Relationship between soil P fractions and microbial biomass in an oligotrophic grassland-desert scrub system. <i>Ecological Research</i> , 2014, 29, 463-472.	0.7	28
49	Plant species identity and soil P forms in an oligotrophic grassland-desert scrub system. <i>Journal of Arid Environments</i> , 2014, 108, 29-37.	1.2	12
50	Population expansions shared among coexisting bacterial lineages are revealed by genetic evidence. <i>PeerJ</i> , 2014, 2, e696.	0.9	14
51	Hierarchical clustering of genetic diversity associated to different levels of mutation and recombination in <i>Escherichia coli</i> : A study based on Mexican isolates. <i>Infection, Genetics and Evolution</i> , 2013, 13, 187-197.	1.0	11
52	From Isozymes to Genomics: Population Genetics and Conservation of <i>Agave</i> in México. <i>Botanical Review</i> , The, 2013, 79, 483-506.	1.7	50
53	Drastic changes in aquatic bacterial populations from the Cuatro Ciénegas Basin (Mexico) in response to long-term environmental stress. <i>Antonie Van Leeuwenhoek</i> , 2013, 104, 1159-1175.	0.7	16
54	Low Mitochondrial Dna Sequence Variation in the Microendemic Cuatro Ciénegas Platyfish <i>Xiphophorus gordonii</i> . <i>Western North American Naturalist</i> , 2013, 73, 224-229.	0.2	9

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55	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.	4.4	94
56	Genetic Characterization of Atypical <i>Citrobacter freundii</i> . PLoS ONE, 2013, 8, e74120.	1.1	12
57	Microbial secondary succession in soil microcosms of a desert oasis in the Cuatro Ciénegas Basin, Mexico. PeerJ, 2013, 1, e47.	0.9	50
58	Diversity across Seasons of Culturable <i>Pseudomonas</i> from a Desiccation Lagoon in Cuatro Ciénegas, Mexico. International Journal of Microbiology, 2012, 2012, 1-10.	0.9	21
59	Water-sediment niche differentiation in ancient marine lineages of <i>Exiguobacterium</i> endemic to the Cuatro Ciénegas Basin. Environmental Microbiology, 2012, 14, 2323-2333.	1.8	48
60	Spatially Resolved Genomic, Stable Isotopic, and Lipid Analyses of a Modern Freshwater Microbialite from Cuatro Ciénegas, Mexico. Astrobiology, 2012, 12, 685-698.	1.5	33
61	The Cuatro Ciénegas Basin in Coahuila, Mexico: An Astrobiological Precambrian Park. Astrobiology, 2012, 12, 641-647.	1.5	86
62	Bacterial Communities and the Nitrogen Cycle in the Gypsum Soils of Cuatro Ciénegas Basin, Coahuila: A Mars Analogue. Astrobiology, 2012, 12, 699-709.	1.5	59
63	Travel, Sex, and Food: What's Speciation Got to Do with It?. Astrobiology, 2012, 12, 634-640.	1.5	30
64	Comparative Metagenomics of Two Microbial Mats at Cuatro Ciénegas Basin II: Community Structure and Composition in Oligotrophic Environments. Astrobiology, 2012, 12, 659-673.	1.5	83
65	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.	1.5	85
66	Divergence and Phylogeny of Firmicutes from the Cuatro Ciénegas Basin, Mexico: A Window to an Ancient Ocean. Astrobiology, 2012, 12, 674-684.	1.5	50
67	Microbial Stowaways: Inimitable Survivors or Hopeless Pioneers?. Astrobiology, 2012, 12, 710-715.	1.5	8
68	Mesocosms of Aquatic Bacterial Communities from the Cuatro Ciénegas Basin (Mexico): A Tool to Test Bacterial Community Response to Environmental Stress. Microbial Ecology, 2012, 64, 346-358.	1.4	23
69	Understanding microbial community diversity metrics derived from metagenomes: performance evaluation using simulated data sets. FEMS Microbiology Ecology, 2012, 82, 37-49.	1.3	9
70	Phylogenetic and molecular clock inferences of cyanobacterial strains within Rivulariaceae from distant environments. FEMS Microbiology Letters, 2011, 316, 90-99.	0.7	22
71	Characterization of a novel biosurfactant producing <i>Pseudomonas koreensis</i> lineage that is endemic to Cuatro Ciénegas Basin. Systematic and Applied Microbiology, 2011, 34, 531-535.	1.2	26
72	Diversity of culturable thermo-resistant aquatic bacteria along an environmental gradient in Cuatro Ciénegas, Coahuila, Mexico. Antonie Van Leeuwenhoek, 2011, 99, 303-318.	0.7	62

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73	Parallel Evolution and Horizontal Gene Transfer of the <i>pst</i> Operon in <i>Firmicutes</i> from Oligotrophic Environments. <i>International Journal of Evolutionary Biology</i> , 2011, 2011, 1-10.	1.0	45
74	Understanding the evolutionary relationships and major traits of <i>Bacillus</i> through comparative genomics. <i>BMC Genomics</i> , 2010, 11, 332.	1.2	143
75	Evolutionary Dynamics of Insertion Sequences in Relation to the Evolutionary Histories of the Chromosome and Symbiotic Plasmid Genes of <i>Rhizobium etli</i> Populations. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6504-6513.	1.4	34
76	Metagenomic and stable isotopic analyses of modern freshwater microbialites in Cuatro Ciénegas, Mexico. <i>Environmental Microbiology</i> , 2009, 11, 16-34.	1.8	204
77	<i>Pseudomonas cuatrocienegasensis</i> sp. nov., isolated from an evaporating lagoon in the Cuatro Cienegas valley in Coahuila, Mexico. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2009, 59, 1416-1420.	0.8	35
78	Soil aggregates in a tropical deciduous forest: effects on C and N dynamics, and microbial communities as determined by t-RFLPs. <i>Biogeochemistry</i> , 2008, 89, 209-220.	1.7	19
79	Diversity of aquatic prokaryotic communities in the Cuatro Cienegas basin. <i>FEMS Microbiology Ecology</i> , 2008, 65, 50-60.	1.3	45
80	Biodiversity and biogeography of phages in modern stromatolites and thrombolites. <i>Nature</i> , 2008, 452, 340-343.	13.7	251
81	Microbial endemism: does phosphorus limitation enhance speciation?. <i>Nature Reviews Microbiology</i> , 2008, 6, 559-564.	13.6	87
82	Evidence of biogeography in surface ocean bacterioplankton assemblages. <i>Marine Genomics</i> , 2008, 1, 55-61.	0.4	12
83	An analysis of the evolutionary relationships of integron integrases, with emphasis on the prevalence of class 1 integrons in <i>Escherichia coli</i> isolates from clinical and environmental origins. <i>Microbiology (United Kingdom)</i> , 2008, 154, 94-102.	0.7	50
84	<i>Bacillus coahuilensis</i> sp. nov., a moderately halophilic species from a desiccation lagoon in the Cuatro Cienegas Valley in Coahuila, Mexico. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2008, 58, 919-923.	0.8	52
85	The genome of <i>Bacillus coahuilensis</i> reveals adaptations essential for survival in the relic of an ancient marine environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 5803-5808.	3.3	94
86	The Sorcerer II Global Ocean Sampling Expedition: Northwest Atlantic through Eastern Tropical Pacific. <i>PLoS Biology</i> , 2007, 5, e77.	2.6	1,757
87	Spent media from cultures of environmental isolates of <i>Escherichia coli</i> can suppress the deficiency of biofilm formation under anoxic conditions of laboratory <i>E. coli</i> strains. <i>FEMS Microbiology Ecology</i> , 2006, 58, 414-424.	1.3	11
88	Molecular Diversity of Rabies Viruses Associated with Bats in Mexico and Other Countries of the Americas. <i>Journal of Clinical Microbiology</i> , 2006, 44, 1697-1710.	1.8	87
89	An endangered oasis of aquatic microbial biodiversity in the Chihuahuan desert. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6565-6570.	3.3	197
90	Timing and rate of speciation in <i>Agave</i> (Agavaceae). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9124-9129.	3.3	230

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91	Microbial macroecology: highly structured prokaryotic soil assemblages in a tropical deciduous forest. <i>Global Ecology and Biogeography</i> , 2005, 14, 241-248.	2.7	77
92	Evolutionary genetics and biogeographic structure of <i>Rhizobium gallicum</i> sensu lato, a widely distributed bacterial symbiont of diverse legumes. <i>Molecular Ecology</i> , 2005, 14, 4033-4050.	2.0	87
93	Effects of phosphorus enrichment and grazing snails on modern stromatolitic microbial communities. <i>Freshwater Biology</i> , 2005, 50, 1808-1825.	1.2	116
94	Molecular epizootiology of rabies associated with terrestrial carnivores in Mexico. <i>Virus Research</i> , 2005, 111, 13-27.	1.1	55
95	A genomic population genetics analysis of the pathogenic enterocyte effacement island in <i>Escherichia coli</i> : The search for the unit of selection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 1542-1547.	3.3	36
96	Detection of Genetic Variation in <i>Taenia solium</i> . <i>Journal of Parasitology</i> , 2003, 89, 1250-1254.	0.3	51
97	Stress-Induced Mutagenesis in Bacteria. <i>Science</i> , 2003, 300, 1404-1409.	6.0	508
98	<i>Rhizobium etli</i> and <i>Rhizobium gallicum</i> Nodulate Common Bean ( <i>Phaseolus vulgaris</i> ) in a Traditionally Managed Milpa Plot in Mexico: Population Genetics and Biogeographic Implications. <i>Applied and Environmental Microbiology</i> , 2003, 69, 884-893.	1.4	105
99	Phenotyping and Genotyping of <i>Sporothrix schenckii</i> Isolates According to Geographic Origin and Clinical Form of Sporotrichosis. <i>Journal of Clinical Microbiology</i> , 2002, 40, 3004-3011.	1.8	87
100	Cytogenetic study of a group of workers exposed to thinner. <i>Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure</i> , 1987, 189, 357-362.	1.2	3
101	Diversity of an uncommon elastic hypersaline microbial mat along a small-scale transect. <i>PeerJ</i> , 0, 10, e13579.	0.9	10