Valeria Souza Saldivar

List of Publications by Year
in descending order

101 papers	6,471 citations	94433 37 h-index	69250 77 g-index
116 all docs	116 docs citations	116 times ranked	7273 citing authors

#	Article	IF	Citations
1	Selection for Phage Resistance Reduces Virulence of Shigella flexneri. Applied and Environmental Microbiology, 2022, 88, AEM0151421.	3.1	11
2	Recent Differentiation of Aquatic Bacterial Communities in a Hydrological System in the Cuatro CiÃ©negas Basin, After a Natural Perturbation. Frontiers in Microbiology, 2022, 13, 825167.	3.5	4
3	MicNet toolbox: Visualizing and unraveling a microbial network. PLoS ONE, 2022, 17, e0259756.	2.5	1
4	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
5	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
6	Population genomics of Vibrionaceae isolated from an endangered oasis reveals local adaptation after an environmental perturbation. BMC Genomics, 2020, 21, 418.	2.8	6
7	Evolutionary Rescue of an Environmental Pseudomonas otitidis in Response to Anthropogenic Perturbation. Frontiers in Microbiology, 2020, 11, 563885.	3.5	5
8	Genomic adaptations in information processing underpin trophic strategy in a whole-ecosystem nutrient enrichment experiment. ELife, 2020, 9, .	6.0	21
9	In vitro anticancer activity of methanolic extract of Granulocystopsis sp., a microalgae from an oligotrophic oasis in the Chihuahuan desert. PeerJ, 2020, 8, e8686.	2.0	15
10	Cuatro CiÃ©negas as an Archaean Astrobiology Park. Cuatro Cienegas Basin: an Endangered Hyperdiverse Oasis, 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. Cuatro Cienegas Basin: an Endangered Hyperdiverse Oasis, 2020, , 135-148.	0.4	3
12	TwoPseudomonas aeruginosaclonal groups belonging to the PA14 clade are indigenous to the Churince system in Cuatro CiÃ©negas Coahuila, MÃ©xico. Environmental Microbiology, 2019, 21, 2964-2976.	3.8	10
13	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
14	Involvement of cyclodipeptides in the competition of bacterial communities in the oligotrophic Churince aquatic system of Cuatro CiÃ©negas Basin dominated by Gammaproteobacteria. Extremophiles, 2018, 22, 73-85.	2.3	2
15	How Divergent Is the Cuatro CiÃ©negas Oasis? Genomic Studies of Microbial Populations and Niche Differentiation. Cuatro Cienegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 57-71.	0.4	2
16	The Niche at the Edge of Life or the Microbial Ecology (Including Microfungi) of Cuatro CiÃ©negas: Mutualisms with Locals, Antagonisms Against Foreigners. Cuatro Cienegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 73-82.	0.4	0
17	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
18	The Sulfur Cycle as the Gear of the â€œClock of Lifeâ€: The Point of Convergence Between Geological and Genomic Data in the Cuatro Cienegas Basin. Cuatro Cienegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 67-83.	0.4	5

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19	Nutrient Dependent Cross-Kingdom Interactions: Fungi and Bacteria From an Oligotrophic Desert Oasis. Frontiers in Microbiology, 2018, 9, 1755.	3.5	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). Cuatro Cienegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 31-41.	0.4	6
21	Toward a Comprehensive Understanding of Environmental Perturbations in Microbial Mats from the Cuatro Cienegas Basin by Network Inference. Cuatro Cienegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 85-97.	0.4	6
22	The lost world of Cuatro CiÃ©negas Basin, a relictual bacterial niche in a desert oasis. ELife, 2018, 7, .	6.0	51
23	The Effect of Nutrient Availability on the Ecological Role of Filamentous Microfungi: Lessons from Elemental Stoichiometry. Cuatro Cienegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 43-53.	0.4	2
24	In the Beginning, There Was Fire: Cuatro CiÃ©negas Basin (CCB) and the Long History of Life on Earth. Cuatro Cienegas Basin: an Endangered Hyperdiverse Oasis, 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. GigaScience, 2017, 6, 1-17.	6.4	35
26	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
27	Nutrient Stoichiometry Shapes Microbial Community Structure in an Evaporitic Shallow Pond. Frontiers in Microbiology, 2017, 8, 949.	3.5	62
28	The genomic sequence ofExiguobacterium chiriqhuchastr. N139 reveals a species that thrives in cold waters and extreme environmental conditions. PeerJ, 2017, 5, e3162.	2.0	27
29	High diversity and suggested endemicity of culturable Actinobacteria in an extremely oligotrophic desert oasis. PeerJ, 2017, 5, e3247.	2.0	57
30	Trophic analysis of the fish community in the CiÃ©nega Churince, Cuatro CiÃ©negas, Coahuila. PeerJ, 2017, 5, e3637.	2.0	10
31	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
32	Microevolution Analysis of Bacillus coahuilensis Unveils Differences in Phosphorus Acquisition Strategies and Their Regulation. Frontiers in Microbiology, 2016, 7, 58.	3.5	17
33	Editorial: The Role of Microbial Communities in Tropical Ecosystems. Frontiers in Microbiology, 2016, 7, 1805.	3.5	24
34	How To Live with Phosphorus Scarcity in Soil and Sediment: Lessons from Bacteria. Applied and Environmental Microbiology, 2016, 82, 4652-4662.	3.1	60
35	Microfungal oasis in an oligotrophic desert: diversity patterns and community structure in three freshwater systems of Cuatro CiÃ©negas, Mexico. PeerJ, 2016, 4, e2064.	2.0	19
36	Agricultural land-use change in a Mexican oligotrophic desert depletes ecosystem stability. PeerJ, 2016, 4, e2365.	2.0	13

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37	Spatial heterogeneity of physicochemical properties explains differences in microbial composition in arid soils from Cuatro Cienegas, Mexico. PeerJ, 2016, 4, e2459.	2.0	35
38	Enrichment experiment changes microbial interactions in an ultra-oligotrophic environment. Frontiers in Microbiology, 2015, 6, 246.	3.5	57
39	Theoretical analysis of the cost of antagonistic activity for aquatic bacteria in oligotrophic environments. Frontiers in Microbiology, 2015, 6, 490.	3.5	9
40	Response of a Stoichiometrically Imbalanced Ecosystem to Manipulation of Nutrient Supplies and Ratios. PLoS ONE, 2015, 10, e0123949.	2.5	30
41	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
42	Mitochondrial DNA Diversity and Phylogeography ofLucania interiorisInform Biodiversity Conservation in the Cuatro CiÃ©negas Basin, MÃ©xico. Western North American Naturalist, 2015, 75, 200-208.	0.4	7
43	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
44	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
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. PLoS ONE, 2015, 10, e0119741.	2.5	20
46	Aquatic bacterial assemblage structure in Pozas Azules, Cuatro Cienegas Basin, Mexico: Deterministic vs. stochastic processes. International Microbiology, 2015, 18, 105-15.	2.4	20
47	Twoâ€role model of an interaction network of freeâ€living Î³â€proteobacteria from an oligotrophic environment. Environmental Microbiology, 2014, 16, 1366-1377.	3.8	31
48	Relationship between soil P fractions and microbial biomass in an oligotrophic grasslandâ€desert scrub system. Ecological Research, 2014, 29, 463-472.	1.5	28
49	Plant species identity and soil P forms in an oligotrophic grasslandâ€“desert scrub system. Journal of Arid Environments, 2014, 108, 29-37.	2.4	12
50	Population expansions shared among coexisting bacterial lineages are revealed by genetic evidence. PeerJ, 2014, 2, e696.	2.0	14
51	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
52	From Isozymes to Genomics: Population Genetics and Conservation of Agave in MÃ©xico. Botanical Review, The, 2013, 79, 483-506.	3.9	50
53	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
54	Low Mitochondrial Dna Sequence Variation in the Microendemic Cuatro CiÃ©negas PlatyfishXiphophorus gordoni. Western North American Naturalist, 2013, 73, 224-229.	0.4	9

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55	Antagonism influences assembly of a Bacillus guild in a local community and is depicted as a food-chain network. ISME Journal, 2013, 7, 487-497.	9.8	94
56	Genetic Characterization of Atypical Citrobacter freundii. PLoS ONE, 2013, 8, e74120.	2.5	12
57	Microbial secondary succession in soil microcosms of a desert oasis in the Cuatro Cienegas Basin, Mexico. PeerJ, 2013, 1, e47.	2.0	50
58	Diversity across Seasons of CulturablePseudomonasfrom a Desiccation Lagoon in Cuatro Cienegas, Mexico. International Journal of Microbiology, 2012, 2012, 1-10.	2.3	21
59	Waterâ€“sediment niche differentiation in ancient marine lineages of Exiguobacterium endemic to the Cuatro Cienegas Basin. Environmental Microbiology, 2012, 14, 2323-2333.	3.8	48
60	Spatially Resolved Genomic, Stable Isotopic, and Lipid Analyses of a Modern Freshwater Microbialite from Cuatro CiÃ©negas, Mexico. Astrobiology, 2012, 12, 685-698.	3.0	33
61	The Cuatro CiÃ©negas Basin in Coahuila, Mexico: An Astrobiological Precambrian Park. Astrobiology, 2012, 12, 641-647.	3.0	86
62	Bacterial Communities and the Nitrogen Cycle in the Gypsum Soils of Cuatro CiÃ©negas Basin, Coahuila: A Mars Analogue. Astrobiology, 2012, 12, 699-709.	3.0	59
63	Travel, Sex, and Food: What's Speciation Got to Do with It?. Astrobiology, 2012, 12, 634-640.	3.0	30
64	Comparative Metagenomics of Two Microbial Mats at Cuatro CiÃ©negas Basin II: Community Structure and Composition in Oligotrophic Environments. Astrobiology, 2012, 12, 659-673.	3.0	83
65	Comparative Metagenomics of Two Microbial Mats at Cuatro CiÃ©negas Basin I: Ancient Lessons on How to Cope with an Environment Under Severe Nutrient Stress. Astrobiology, 2012, 12, 648-658.	3.0	85
66	Divergence and Phylogeny of Firmicutes from the Cuatro CiÃ©negas Basin, Mexico: A Window to an Ancient Ocean. Astrobiology, 2012, 12, 674-684.	3.0	50
67	Microbial Stowaways: Inimitable Survivors or Hopeless Pioneers?. Astrobiology, 2012, 12, 710-715.	3.0	8
68	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
69	Understanding microbial community diversity metrics derived from metagenomes: performance evaluation using simulated data sets. FEMS Microbiology Ecology, 2012, 82, 37-49.	2.7	9
70	Phylogenetic and molecular clock inferences of cyanobacterial strains within Rivulariaceae from distant environments. FEMS Microbiology Letters, 2011, 316, 90-99.	1.8	22
71	Characterization of a novel biosurfactant producing Pseudomonas koreensis lineage that is endemic to Cuatro CiÃ©negas Basin. Systematic and Applied Microbiology, 2011, 34, 531-535.	2.8	26
72	Diversity of culturable thermo-resistant aquatic bacteria along an environmental gradient in Cuatro CiÃ©negas, Coahuila, MÃ©xico. Antonie Van Leeuwenhoek, 2011, 99, 303-318.	1.7	62

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73	Parallel Evolution and Horizontal Gene Transfer of the pst Operon in Firmicutes from Oligotrophic Environments. International Journal of Evolutionary Biology, 2011, 2011, 1-10.	1.0	45
74	Understanding the evolutionary relationships and major traits of Bacillus through comparative genomics. BMC Genomics, 2010, 11, 332.	2.8	143
75	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
76	Metagenomic and stable isotopic analyses of modern freshwater microbialites in Cuatro CiÃ©negas, Mexico. Environmental Microbiology, 2009, 11, 16-34.	3.8	204
77	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
78	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
79	Diversity of aquatic prokaryotic communities in the Cuatro Cienegas basin. FEMS Microbiology Ecology, 2008, 65, 50-60.	2.7	45
80	Biodiversity and biogeography of phages in modern stromatolites and thrombolites. Nature, 2008, 452, 340-343.	27.8	251
81	Microbial endemism: does phosphorus limitation enhance speciation?. Nature Reviews Microbiology, 2008, 6, 559-564.	28.6	87
82	Evidence of biogeography in surface ocean bacterioplankton assemblages. Marine Genomics, 2008, 1, 55-61.	1.1	12
83	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
84	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
85	The genome of Bacillus coahuilensis 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
86	The Sorcerer II Global Ocean Sampling Expedition: Northwest Atlantic through Eastern Tropical Pacific. PLoS Biology, 2007, 5, e77.	5.6	1,757
87	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
88	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
89	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
90	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

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91	Microbial macroecology: highly structured prokaryotic soil assemblages in a tropical deciduous forest. Global Ecology and Biogeography, 2005, 14, 241-248.	5.8	77
92	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
93	Effects of phosphorus enrichment and grazing snails on modern stromatolitic microbial communities. Freshwater Biology, 2005, 50, 1808-1825.	2.4	116
94	Molecular epizootiology of rabies associated with terrestrial carnivores in Mexico. Virus Research, 2005, 111, 13-27.	2.2	55
95	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
96	Detection of Genetic Variation in Taenia solium. Journal of Parasitology, 2003, 89, 1250-1254.	0.7	51
97	Stress-Induced Mutagenesis in Bacteria. Science, 2003, 300, 1404-1409.	12.6	508
98	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
99	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
100	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
101	Diversity of an uncommon elastic hypersaline microbial mat along a small-scale transect. PeerJ, 0, 10, e13579.	2.0	10