Ana Elena Escalante

List of Publications by Year
in descending order

51 papers	1,444 citations	394421 19 h-index	345221 36 g-index
60 all docs	60 docs citations	60 times ranked	1808 citing authors

#	Article	IF	Citations
1	Unipartite and bipartite mycorrhizal networks of Abies religiosa forests: Incorporating network theory into applied ecology of conifer species and forest management. Ecological Complexity, 2022, 50, 101002.	2.9	3
2	From resilience attributes to city resilience. Landscape and Urban Planning, 2022, 226, 104485.	7.5	14
3	Cognitive Maps Across Multiple Social Sectors: Shared and Unique Perceptions on the Quality of Agricultural Soils in Mexico. Frontiers in Sustainable Food Systems, 2021, 4, .	3.9	7
4	Soil microbial composition and carbon mineralization are associated with vegetation type and temperature regime in mesocosms of a semiarid ecosystem. FEMS Microbiology Letters, 2021, 368, .	1.8	3
5	Recent and Historical Gene Flow in Cultivars, Landraces, and a Wild Taxon of Cucurbita pepo in Mexico. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	7
6	The duo Clostridium and Lactobacillus linked to hydrogen production from a lignocellulosic substrate. Water Science and Technology, 2021, 83, 3033-3040.	2.5	20
7	The environment topography alters the way to multicellularity in Myxococcus xanthus. Science Advances, 2021, 7, .	10.3	5
8	Free-living diazotrophs differ among soil microhabitats, soil depth, and seasonality in a tropical dryland of central Mexico. Journal of Arid Environments, 2021, 195, 104628.	2.4	1
9	Precipitation Controls on Soil Biogeochemical and Microbial Community Composition in Rainfed Agricultural Systems in Tropical Drylands. Sustainability, 2021, 13, 11848.	3.2	0
10	Laboratory biases hinder Ecoâ€Evoâ€Devo integration: Hints from the microbial world. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2020, 334, 14-24.	1.3	4
11	Editorial: Sustainability Challenges for Our Urban Futures. Frontiers in Environmental Science, 2020, 8, .	3.3	1
12	Host genotype explains rhizospheric microbial community composition: the case of wild cotton metapopulations (Gossypium hirsutum L.) in Mexico. FEMS Microbiology Ecology, 2020, 96, .	2.7	7
13	Evolutionary Rescue of an Environmental Pseudomonas otitidis in Response to Anthropogenic Perturbation. Frontiers in Microbiology, 2020, 11, 563885.	3.5	5
14	A framework for integrating functional and microbial data: The case of dark fermentation H2 production. International Journal of Hydrogen Energy, 2020, 45, 31706-31718.	7.1	4
15	Plastic multicellular development ofMyxococcus xanthus: genotypeâ€“environment interactions in a physical gradient. Royal Society Open Science, 2019, 6, 181730.	2.4	12
16	Heat-shock treatment applied to inocula for H2 production decreases microbial diversities, interspecific interactions and performance using cellulose as substrate. International Journal of Hydrogen Energy, 2019, 44, 13126-13134.	7.1	22
17	In vitro performance in cotton plants with different genetic backgrounds: the case of Gossypium hirsutum in Mexico, and its implications for germplasm conservation. PeerJ, 2019, 7, e7017.	2.0	6
18	Cellâ€fate determination in Myxococcus xanthus development: Network dynamics and novel predictions. Development Growth and Differentiation, 2018, 60, 121-129.	1.5	9

#	Article	IF	Citations
19	Terrestrial N Cycling in an Endangered Oasis. Cuatro Ciènegas Basin: an Endangered Hyperdiverse Oasis, 2018, , 15-29.	0.4	0
20	Population structure of Pseudomonas aeruginosa through a MLST approach and antibiotic resistance profiling of a Mexican clinical collection. Infection, Genetics and Evolution, 2018, 65, 43-54.	2.3	23
21	Biophysical, infrastructural and social heterogeneities explain spatial distribution of waterborne gastrointestinal disease burden in Mexico City. Environmental Research Letters, 2018, 13, 064016.	5.2	7
22	Urban resilience efforts must consider social and political forces. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 186-189.	7.1	116
23	An Evoâ€Devo Perspective on Multicellular Development of Myxobacteria. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2017, 328, 165-178.	1.3	30
24	History of adaptation determines shortâ€term shifts in performance and community structure of hydrogenâ€producing microbial communities degrading wheat straw. Microbial Biotechnology, 2017, 10, 1569-1580.	4.2	27
25	Proposal for a sustainability evaluation framework for bioenergy production systems using the MESMIS methodology. Renewable and Sustainable Energy Reviews, 2017, 68, 360-369.	16.4	16
26	Domesticated, Genetically Engineered, and Wild Plant Relatives Exhibit Unintended Phenotypic Differences: A Comparative Meta-Analysis Profiling Rice, Canola, Maize, Sunflower, and Pumpkin. Frontiers in Plant Science, 2017, 8, 2030.	3.6	14
27	Editorial: Conflict and Cooperation in Microbial Societies. Frontiers in Microbiology, 2017, 8, 141.	3.5	5
28	Seasonal Changes in a Maize-Based Polyculture of Central Mexico Reshape the Co-occurrence Networks of Soil Bacterial Communities. Frontiers in Microbiology, 2017, 8, 2478.	3.5	36
29	Collaborative framework for designing a sustainability science programme. International Journal of Sustainability in Higher Education, 2016, 17, 378-403.	3.1	8
30	Ecological perspectives of hydrogen fermentation by microbial consortia: What we have learned and the way forward. International Journal of Hydrogen Energy, 2016, 41, 17297-17308.	7.1	24
31	Spatial heterogeneity of physicochemical properties explains differences in microbial composition in arid soils from Cuatro Cienegas, Mexico. PeerJ, 2016, 4, e2459.	2.0	35
32	Ecological perspectives on synthetic biology: insights from microbial population biology. Frontiers in Microbiology, 2015, 6, 143.	3.5	62
33	Impact of seasonal changes on fungal diversity of a semi-arid ecosystem revealed by 454 pyrosequencing. FEMS Microbiology Ecology, 2015, 91, .	2.7	60
34	Aquatic bacterial assemblage structure in Pozas Azules, Cuatro Cienegas Basin, Mexico: Deterministic vs. stochastic processes. International Microbiology, 2015, 18, 105-15.	2.4	20
35	The study of biodiversity in the era of massive sequencing. Revista Mexicana De Biodiversidad, 2014, 85, 1249-1264.	0.4	8
36	Population expansions shared among coexisting bacterial lineages are revealed by genetic evidence. PeerJ, 2014, 2, e696.	2.0	14

#	Article	IF	Citations
37	Distribution patterns of Dikarya in arid and semiarid soils of Baja California, Mexico. Fungal Ecology, 2013, 6, 92-101.	1.6	16
38	Diversity across Seasons of CulturablePseudomonasfrom a Desiccation Lagoon in Cuatro Cienegas, Mexico. International Journal of Microbiology, 2012, 2012, 1-10.	2.3	21
39	The Cuatro CiÃ©negas Basin in Coahuila, Mexico: An Astrobiological Precambrian Park. Astrobiology, 2012, 12, 641-647.	3.0	86
40	A Spectrum of Pleiotropic Consequences in Development Due to Changes in a Regulatory Pathway. PLoS ONE, 2012, 7, e43413.	2.5	12
41	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
42	Rhamnolipids: Production in bacteria other than Pseudomonas aeruginosa. European Journal of Lipid Science and Technology, 2010, 112, 1082-1087.	1.5	85
43	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
44	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
45	Diversity of aquatic prokaryotic communities in the Cuatro Cienegas basin. FEMS Microbiology Ecology, 2008, 65, 50-60.	2.7	45
46	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
47	Microbial macroecology: highly structured prokaryotic soil assemblages in a tropical deciduous forest. Global Ecology and Biogeography, 2005, 14, 241-248.	5.8	77
48	Effects of phosphorus enrichment and grazing snails on modern stromatolitic microbial communities. Freshwater Biology, 2005, 50, 1808-1825.	2.4	116
49	Longâ€distance colonization, isolation by distance, and historical demography in a relictual Mexican pinyon pine (Pinus nelsonii Shaw) as revealed by paternally inherited genetic markers (cpSSRs). Molecular Ecology, 2003, 12, 2087-2097.	3.9	43
50	Comparative genetic structure in pines: evolutionary and conservation consequences. Revista Chilena De Historia Natural, 2002, 75, 27.	1.2	14
51	Diversity of an uncommon elastic hypersaline microbial mat along a small-scale transect. PeerJ, 0, 10, e13579.	2.0	10