Armando Azua-Bustos

List of Publications by Year
in descending order

31 papers	1,019 citations	471509 17 h-index	454955 30 g-index
34 all docs	34 docs citations	34 times ranked	1265 citing authors

#	Article	IF	Citations
1	The Atacama Desert in Northern Chile as an Analog Model of Mars. Frontiers in Astronomy and Space Sciences, 2022, 8, .	2.8	21
2	Fundamental Science and Engineering Questions in Planetary Cave Exploration. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	8
3	A roadmap for planetary caves science and exploration. Nature Astronomy, 2021, 5, 524-525.	10.1	19
4	Emendation of the Coccoid Cyanobacterial Genus Gloeocapsopsis and Description of the New Species Gloeocapsopsis diffluens sp. nov. and Gloeocapsopsis dulcis sp. nov. Isolated From the Coastal Range of the Atacama Desert (Chile). Frontiers in Microbiology, 2021, 12, 671742.	3.5	11
5	Crystalline water in gypsum is unavailable for cyanobacteria in laboratory experiments and in natural desert endolithic habitats. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27786-27787.	7.1	5
6	Metabolomics as an Emerging Tool in the Search for Astrobiologically Relevant Biomarkers. Astrobiology, 2020, 20, 1251-1261.	3.0	16
7	The beauty and the yeast: can the microalgae Dunaliella form a borderline lichen with Hortaea werneckii?. Symbiosis, 2020, 82, 123-131.	2.3	5
8	Can Halophilic and Psychrophilic Microorganisms Modify the Freezing/Melting Curve of Cold Salty Solutions? Implications for Mars Habitability. Astrobiology, 2020, 20, 1067-1075.	3.0	2
9	Inhabited subsurface wet smectites in the hyperarid core of the Atacama Desert as an analog for the search for life on Mars. Scientific Reports, 2020, 10, 19183.	3.3	21
10	The extremely halotolerant black yeast Hortaea werneckii - a model for intraspecific hybridization in clonal fungi. IMA Fungus, 2019, 10, 10.	3.8	30
11	Aeolian transport of viable microbial life across the Atacama Desert, Chile: Implications for Mars. Scientific Reports, 2019, 9, 11024.	3.3	36
12	A surface temperature and moisture intercomparison study of the Weather Research and Forecasting model, inâ€situ measurements and satellite observations over the Atacama Desert. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 2202-2220.	2.7	17
13	Planetary Protection and the astrobiological exploration of Mars: Proactive steps in moving forward. Advances in Space Research, 2019, 63, 1491-1497.	2.6	11
14	Unprecedented rains decimate surface microbial communities in the hyperarid core of the Atacama Desert. Scientific Reports, 2018, 8, 16706.	3.3	54
15	Draft Genome Sequence of the Extremely Desiccation-Tolerant Cyanobacterium Gloeocapsopsis sp. Strain AAB1. Genome Announcements, 2018, 6, .	0.8	12
16	Aspergillus atacamensis and A. salisburgensis: two new halophilic species from hypersaline/arid habitats with a phialosimplex-like morphology. Extremophiles, 2017, 21, 755-773.	2.3	27
17	The Hyperarid Core of the Atacama Desert, an Extremely Dry and Carbon Deprived Habitat of Potential Interest for the Field of Carbon Science. Frontiers in Microbiology, 2017, 8, 993.	3.5	19
18	Extremely high UV-C radiation resistant microorganisms from desert environments with different manganese concentrations. Journal of Photochemistry and Photobiology B: Biology, 2016, 163, 327-336.	3.8	39

#	Article	IF	Citations
19	The Astrobiology Primer v2.0. Astrobiology, 2016, 16, 561-653.	3.0	133
20	Discovery and microbial content of the driest site of the hyperarid <scp>A</scp>tacama <scp>D</scp>esert, <scp>C</scp>hile. Environmental Microbiology Reports, 2015, 7, 388-394.	2.4	73
21	Biotechnological Applications Derived from Microorganisms of the Atacama Desert. BioMed Research International, 2014, 2014, 1-7.	1.9	22
22	Gloeocapsopsis AAB1, an extremely desiccation-tolerant cyanobacterium isolated from the Atacama Desert. Extremophiles, 2014, 18, 61-74.	2.3	40
23	Isolation of UVC-Tolerant Bacteria from the Hyperarid Atacama Desert, Chile. Microbial Ecology, 2013, 65, 325-335.	2.8	41
24	The potential for detecting â€˜life as we don't know itâ€™ by fractal complexity analysis. International Journal of Astrobiology, 2013, 12, 314-320.	1.6	11
25	Life at the dry edge: Microorganisms of the Atacama Desert. FEBS Letters, 2012, 586, 2939-2945.	2.8	135
26	Mini-Review: Probing the limits of extremophilic life in extraterrestrial environment-simulated experiments. International Journal of Astrobiology, 2012, 11, 251-256.	1.6	9
27	Extreme environments as potential drivers of convergent evolution by exaptation: the Atacama Desert Coastal Range case. Frontiers in Microbiology, 2012, 3, 426.	3.5	24
28	Hypolithic Cyanobacteria Supported Mainly by Fog in the Coastal Range of the Atacama Desert. Microbial Ecology, 2011, 61, 568-581.	2.8	102
29	A novel subaerial Dunaliella species growing on cave spiderwebs in the Atacama Desert. Extremophiles, 2010, 14, 443-452.	2.3	37
30	Ancient Photosynthetic Eukaryote Biofilms in an Atacama Desert Coastal Cave. Microbial Ecology, 2009, 58, 485-496.	2.8	38
31	Early Mars â€“ Cradle or Cauldron?. , 0, , 157-174.		0