Victor Parro

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8970655/publications.pdf

Version: 2024-02-01

126	7,498	109264	56687
papers	citations	35 h-index	83 g-index

129	129	129	7303
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The complete genome sequence of the Gram-positive bacterium Bacillus subtilis. Nature, 1997, 390, 249-256.	13.7	3,519
2	Searching for Life on Mars: Selection of Molecular Targets for ESA's Aurora ExoMars Mission. Astrobiology, 2007, 7, 578-604.	1.5	172
3	Transitory microbial habitat in the hyperarid Atacama Desert. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2670-2675.	3.3	172
4	A Microbial Oasis in the Hypersaline Atacama Subsurface Discovered by a Life Detector Chip: Implications for the Search for Life on Mars. Astrobiology, 2011, 11, 969-996.	1.5	140
5	Viable cyanobacteria in the deep continental subsurface. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10702-10707.	3.3	124
6	Roadmap for naming uncultivated Archaea and Bacteria. Nature Microbiology, 2020, 5, 987-994.	5.9	115
7	Analysis of environmental transcriptomes by DNA microarrays. Environmental Microbiology, 2007, 9, 453-464.	1.8	113
8	SOLID3: A Multiplex Antibody Microarray-Based Optical Sensor Instrument forIn SituLife Detection in Planetary Exploration. Astrobiology, 2011, 11, 15-28.	1.5	104
9	The Icebreaker Life Mission to Mars: A Search for Biomolecular Evidence for Life. Astrobiology, 2013, 13, 334-353.	1.5	104
10	A 200-Antibody Microarray Biochip for Environmental Monitoring: Searching for Universal Microbial Biomarkers through Immunoprofiling. Analytical Chemistry, 2008, 80, 7970-7979.	3.2	83
11	The metavirome of a hypersaline environment. Environmental Microbiology, 2010, 12, 2965-2976.	1.8	78
12	Instrument development to search for biomarkers on mars: Terrestrial acidophile, iron-powered chemolithoautotrophic communities as model systems. Planetary and Space Science, 2005, 53, 729-737.	0.9	77
13	Transcriptomics throughout the life cycle of Leishmania infantum: High down-regulation rate in the amastigote stage. International Journal for Parasitology, 2010, 40, 1497-1516.	1.3	77
14	A relA/spoT Homologous Gene from Streptomyces coelicolor A3(2) Controls Antibiotic Biosynthetic Genes. Journal of Biological Chemistry, 1996, 271, 10627-10634.	1.6	76
15	Dynamic of active microorganisms inhabiting a bioleaching industrial heap of lowâ€grade copper sulfide ore monitored by realâ€time PCR and oligonucleotide prokaryotic acidophile microarray. Microbial Biotechnology, 2009, 2, 613-624.	2.0	76
16	Gene function analysis in environmental isolates: The nif regulon of the strict iron oxidizing bacterium Leptospirillum ferrooxidans. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7883-7888.	3.3	71
17	Culture-Independent Approaches for Studying Viruses from Hypersaline Environments. Applied and Environmental Microbiology, 2012, 78, 1635-1643.	1.4	70
18	Unveiling viralâ€“host interactions within the â€˜microbial dark matterâ€™. Nature Communications, 2014, 5, 4542.	5.8	69

#	Article	IF	Citations
19	STEC-EPEC Oligonucleotide Microarray: A New Tool for Typing Genetic Variants of the LEE Pathogenicity Island of Human and Animal Shiga Toxinâ€“Producing Escherichia coli (STEC) and Enteropathogenic E. coli (EPEC) Strains. Clinical Chemistry, 2006, 52, 192-201.	1.5	67
20	The Involvement of Thaumatin-Like Proteins in Plant Food Cross-Reactivity: A Multicenter Study Using a Specific Protein Microarray. PLoS ONE, 2012, 7, e44088.	1.1	67
21	SOLID2: An Antibody Array-Based Life-Detector Instrument in a Mars Drilling Simulation Experiment (MARTE). Astrobiology, 2008, 8, 987-999.	1.5	63
22	Searching for Life on Mars Before It Is Too Late. Astrobiology, 2017, 17, 962-970.	1.5	61
23	Environmental transcriptome analysis reveals physiological differences between biofilm and planktonic modes of life of the iron oxidizing bacteria Leptospirillum spp. in their natural microbial community. BMC Genomics, 2010, 11, 404.	1.2	59
24	Nucleation of Fe-rich phosphates and carbonates on microbial cells and exopolymeric substances. Frontiers in Microbiology, 2015, 6, 1024.	1.5	58
25	Temperature increase prevails over acidification in gene expression modulation of amastigote differentiation in Leishmania infantum. BMC Genomics, 2010, 11, 31.	1.2	55
26	Unprecedented rains decimate surface microbial communities in the hyperarid core of the Atacama Desert. Scientific Reports, 2018, 8, 16706.	1.6	54
27	Environmental parameters, and not phylogeny, determine the composition of extracellular polymeric substances in microbial mats from extreme environments. Science of the Total Environment, 2019, 650, 384-393.	3.9	54
28	The 2005 MARTE Robotic Drilling Experiment in RÃo Tinto, Spain: Objectives, Approach, and Results of a Simulated Mission to Search for Life in the Martian Subsurface. Astrobiology, 2008, 8, 921-945.	1.5	52
29	Genome-wide analysis reveals increased levels of transcripts related with infectivity in peanut lectin non-agglutinated promastigotes of Leishmania infantum. Genomics, 2009, 93, 551-564.	1.3	50
30	Graph Based Study of Allergen Cross-Reactivity of Plant Lipid Transfer Proteins (LTPs) Using Microarray in a Multicenter Study. PLoS ONE, 2012, 7, e50799.	1.1	46
31	Prokaryotic communities and operating metabolisms in the surface and the permafrost of Deception Island (Antarctica). Environmental Microbiology, 2012, 14, 2495-2510.	1.8	44
32	Ordered Self-Assembled Monolayers of Peptide Nucleic Acids with DNA Recognition Capability. Physical Review Letters, 2004, 93, 208103.	2.9	42
33	An oligonucleotide prokaryotic acidophile microarray: its validation and its use to monitor seasonal variations in extreme acidic environments with total environmental RNA. Environmental Microbiology, 2008, 10, 836-850.	1.8	41
34	Multidisciplinary integrated field campaign to an acidic Martian Earth analogue with astrobiological interest: Rio Tinto. International Journal of Astrobiology, 2011, 10, 291-305.	0.9	40
35	Molecular biomarkers in the subsurface of the Salar Grande (Atacama, Chile) evaporitic deposits. Biogeochemistry, 2018, 140, 31-52.	1.7	39
36	Effect of glucose on agarase overproduction by Streptomyces. Gene, 1994, 145, 49-55.	1.0	38

#	Article	IF	Citations
37	Metatranscriptomic analysis of extremely halophilic viral communities. ISME Journal, 2011, 5, 1621-1633.	4.4	36
38	A multi-array competitive immunoassay for the detection of broad-range molecular size organic compounds relevant for astrobiology. Planetary and Space Science, 2006, 54, 1612-1621.	0.9	35
39	Graphâ€based deconvolution analysis of multiplex sandwich microarray immunoassays: applications for environmental monitoring. Environmental Microbiology, 2011, 13, 1421-1432.	1.8	35
40	A novel conceptual approach to read-filtering in high-throughput amplicon sequencing studies. Nucleic Acids Research, 2016, 44, e40-e40.	6.5	35
41	Transcription of genes involved in the earliest steps of actinorhodin biosynthesis in Streptomyces coelicolor. Nucleic Acids Research, 1991, 19, 2623-2627.	6.5	33
42	SipY Is the Streptomyces lividans Type I Signal Peptidase Exerting a Major Effect on Protein Secretion. Journal of Bacteriology, 2002, 184, 4875-4880.	1.0	33
43	Deep subsurface sulfate reduction and methanogenesis in the Iberian Pyrite Belt revealed through geochemistry and molecular biomarkers. Geobiology, 2014, 12, 34-47.	1.1	33
44	Biomarkers and Metabolic Patterns in the Sediments of Evolving Glacial Lakes as a Proxy for Planetary Lake Exploration. Astrobiology, 2018, 18, 586-606.	1.5	32
45	Nitrogen fixation in acidophile iron-oxidizing bacteria: The nif regulon of Leptospirillum ferrooxidans. Research in Microbiology, 2004, 155, 703-709.	1.0	31
46	Protein Microarrays-Based Strategies for Life Detection in Astrobiology. Space Science Reviews, 2008, 135, 293-311.	3.7	31
47	Evaluation of Leptospirillum spp. in the RÃo Tinto, a model of interest to biohydrometallurgy. Hydrometallurgy, 2008, 94, 155-161.	1.8	31
48	Simulating Mars Drilling Mission for Searching for Life: Ground-Truthing Lipids and Other Complex Microbial Biomarkers in the Iron-Sulfur Rich RÃo Tinto Analog. Astrobiology, 2020, 20, 1029-1047.	1.5	31
49	Inferring the genetic network ofm-xylene metabolism through expression profiling of thexylgenes ofPseudomonas putidamt-2. Molecular Microbiology, 2005, 57, 1557-1569.	1.2	30
50	Amplification of low quantity bacterial RNA for microarray studies: time-course analysis of Leptospirillum ferrooxidans under nitrogen-fixing conditions+. Environmental Microbiology, 2006, 8, 1064-1073.	1.8	30
51	Molecular preservation in haliteâ€and perchlorateâ€rich hypersaline subsurface deposits in the Salar Grande basin (Atacama Desert, Chile): Implications for the search for molecular biomarkers on Mars. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 922-939.	1.3	30
52	Prokaryotic Community Structure and Metabolisms in Shallow Subsurface of Atacama Desert Playas and Alluvial Fans After Heavy Rains: Repairing and Preparing for Next Dry Period. Frontiers in Microbiology, 2019, 10, 1641.	1.5	27
53	Biomarker Profiling of Microbial Mats in the Geothermal Band of Cerro Caliente, Deception Island (Antarctica): Life at the Edge of Heat and Cold. Astrobiology, 2019, 19, 1490-1504.	1.5	27
54	Assessing Antibody Microarrays for Space Missions: Effect of Long-Term Storage, Gamma Radiation, and Temperature Shifts on Printed and Fluorescently Labeled Antibodies. Astrobiology, 2011, 11, 759-773.	1.5	26

#	Article	IF	Citations
55	Microbial Biomarker Transition in High-Altitude Sinter Mounds From El Tatio (Chile) Through Different Stages of Hydrothermal Activity. Frontiers in Microbiology, 2019, 9, 3350.	1.5	25
56	Classification of Modern and Old RÃo Tinto Sedimentary Deposits Through the Biomolecular Record Using a Life Marker Biochip: Implications for Detecting Life on Mars. Astrobiology, 2011, 11, 29-44.	1.5	24
57	Tessaracoccus lapidicaptus sp. nov., an actinobacterium isolated from the deep subsurface of the Iberian pyrite belt. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 3546-3552.	0.8	24
58	Deciphering the Prokaryotic Community and Metabolisms in South African Deep-Mine Biofilms through Antibody Microarrays and Graph Theory. PLoS ONE, 2014, 9, e114180.	1.1	23
59	Component-resolved diagnosis of wheat flour allergy in baker's asthma. Journal of Allergy and Clinical Immunology, 2014, 134, 480-483.e3.	1.5	23
60	Effects of Gamma and Electron Radiation on the Structural Integrity of Organic Molecules and Macromolecular Biomarkers Measured by Microarray Immunoassays and Their Astrobiological Implications. Astrobiology, 2018, 18, 1497-1516.	1.5	23
61	Microbiology and Nitrogen Cycle in the Benthic Sediments of a Glacial Oligotrophic Deep Andean Lake as Analog of Ancient Martian Lake-Beds. Frontiers in Microbiology, 2019, 10, 929.	1.5	22
62	CYANOCHIP: An Antibody Microarray for High-Taxonomical-Resolution Cyanobacterial Monitoring. Environmental Science & Technology, 2015, 49, 1611-1620.	4.6	21
63	Structural and functional characterization of self-assembled monolayers of peptide nucleic acids and its interaction with complementary DNA. Journal of Molecular Catalysis A, 2005, 228, 131-136.	4.8	20
64	Detecting Nonvolatile Life- and Nonlife-Derived Organics in a Carbonaceous Chondrite Analogue with a New Multiplex Immunoassay and Its Relevance for Planetary Exploration. Astrobiology, 2018, 18, 1041-1056.	1.5	20
65	Heterologous recognition in vivo of promoter sequences from theStreptomyces coelicolor dagAgene. FEMS Microbiology Letters, 1993, 106, 347-356.	0.7	19
66	Integration of an Optical Ring Resonator Biosensor into a Self-Contained Microfluidic Cartridge with Active, Single-Shot Micropumps. Micromachines, 2016, 7, 153.	1.4	19
67	A 23 911 bp region of the Bacillus subtilis genome comprising genes located upstream and downstream of the lev operon. Microbiology (United Kingdom), 1997, 143, 1321-1326.	0.7	18
68	Immunological detection of mellitic acid in the Atacama desert: Implication for organics detection on Mars. Icarus, 2013, 224, 326-333.	1.1	18
69	Iberian Pyrite Belt Subsurface Life (IPBSL), a Drilling Project of Biohydrometallurgical Interest. Advanced Materials Research, 0, 825, 15-18.	0.3	18
70	Nearly Forty Years after Viking: Are We Ready for a New Life-Detection Mission?. Astrobiology, 2015, 15, 413-419.	1.5	18
71	Heterologous activation of the actinorhodin biosynthetic pathway inStreptomyces lividans. Nucleic Acids Research, 1992, 20, 2767-2772.	6.5	17
72	Membrane Topology of the Streptomyces lividans Type I Signal Peptidases. Journal of Bacteriology, 2001, 183, 4752-4760.	1.0	17

#	Article	IF	Citations
73	Strategies for detection of putative life on Europa. Advances in Space Research, 2011, 48, 678-688.	1.2	17
74	Critical Assessment of Analytical Techniques in the Search for Biomarkers on Mars: A Mummified Microbial Mat from Antarctica as a Best-Case Scenario. Astrobiology, 2017, 17, 984-996.	1.5	17
75	Influence of the Microenvironment in the Transcriptome of Leishmania infantum Promastigotes: Sand Fly versus Culture. PLoS Neglected Tropical Diseases, 2016, 10, e0004693.	1.3	17
76	Oxalate formation under the hyperarid conditions of the Atacama desert as a mineral marker to provide clues to the source of organic carbon on Mars. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1593-1604.	1.3	16
77	The Complex Molecules Detector (CMOLD): A Fluidic-Based Instrument Suite to Search for (Bio)chemical Complexity on Mars and Icy Moons. Astrobiology, 2020, 20, 1076-1096.	1.5	16
78	The Limits, Capabilities, and Potential for Life Detection with MinION Sequencing in a Paleochannel Mars Analog. Astrobiology, 2020, 20, 375-393.	1.5	16
79	Fingerprinting molecular and isotopic biosignatures on different hydrothermal scenarios of Iceland, an acidic and sulfur-rich Mars analog. Scientific Reports, 2020, 10, 21196.	1.6	15
80	Joint Europa Mission (JEM): a multi-scale study of Europa to characterize its habitability and search for extant life. Planetary and Space Science, 2020, 193, 104960.	0.9	15
81	Effects of phosphate limitation on agarase production by Streptomyces lividansTK21. FEMS Microbiology Letters, 1998, 158, 107-113.	0.7	13
82	Streptomyces lividansas a host for the production and secretion ofEscherichia coliTEM Î²Î²â€lactamase. Letters in Applied Microbiology, 1999, 28, 321-326.	1.0	13
83	Effects of phosphate limitation on agarase production byStreptomyces lividansTK21. FEMS Microbiology Letters, 1998, 158, 107-113.	0.7	12
84	Comparative Genomic Analysis Reveals Novel Facts about <i>Leptospirillum</i> spp. Cytochromes. Journal of Molecular Microbiology and Biotechnology, 2012, 22, 94-104.	1.0	12
85	Draft Genome Sequence of the Extremely Desiccation-Tolerant Cyanobacterium Gloeocapsopsis sp. Strain AAB1. Genome Announcements, 2018, 6, .	0.8	12
86	Functional analysis of the Streptomyces lividans type I signal peptidases. Archives of Microbiology, 2001, 176, 377-380.	1.0	11
87	Detection of Peptidic Sequences in the Ancient Acidic Sediments of RÃo Tinto, Spain. Origins of Life and Evolution of Biospheres, 2011, 41, 523-527.	0.8	11
88	Watershed-Induced Limnological and Microbial Status in Two Oligotrophic Andean Lakes Exposed to the Same Climatic Scenario. Frontiers in Microbiology, 2018, 9, 357.	1.5	11
89	Planetary Protection and the astrobiological exploration of Mars: Proactive steps in moving forward. Advances in Space Research, 2019, 63, 1491-1497.	1.2	11
90	A multiplex antigen microarray for simultaneous IgG and IgM detection against SARSâ€CoVâ€2 reveals higher seroprevalence than reported. Microbial Biotechnology, 2021, 14, 1228-1236.	2.0	11

#	Article	IF	Citations
91	Experimental Protocol for Detecting Cyanobacteria in Liquid and Solid Samples with an Antibody Microarray Chip. Journal of Visualized Experiments, 2017, , .	0.2	10
92	A New Signal Peptidase Gene fromStreptomyces lividansTK21. DNA Sequence, 1998, 9, 71-77.	0.7	9
93	Transposase interaction with the Î² sliding clamp: effects on insertion sequence proliferation and transposition rate. Scientific Reports, 2015, 5, 13329.	1.6	9
94	Prokaryotic and viral community of the sulfateâ€rich crust from PeÃ±ahueca ephemeral lake, an astrobiology analogue. Environmental Microbiology, 2019, 21, 3577-3600.	1.8	9
95	Time-Integrative Multibiomarker Detection in Triassicâ€“Jurassic Rocks from the Atacama Desert: Relevance to the Search for Basic Life Beyond Earth. Astrobiology, 2021, 21, 1421-1437.	1.5	9
96	Solar Radiation Stress in Natural Acidophilic Biofilms of Euglena mutabilis Revealed by Metatranscriptomics and PAM Fluorometry. Protist, 2016, 167, 67-81.	0.6	8
97	Is Searching for Martian Life a Priority for the Mars Community?. Astrobiology, 2018, 18, 101-107.	1.5	8
98	Assessment of Automated Nucleic Acid Extraction Systems in Combination with MinION Sequencing As Potential Tools for the Detection of Microbial Biosignatures. Astrobiology, 2022, 22, 87-103.	1.5	8
99	Multiplex Fluorescent Antibody Microarrays and Antibody Graphs for Microbial and Biomarker Detection in the Environment. Springer Protocols, 2015, , 207-224.	0.1	7
100	An Efficient Microarray-Based Genotyping Platform for the Identification of Drug-Resistance Mutations in Majority and Minority Subpopulations of HIV-1 Quasispecies. PLoS ONE, 2016, 11, e0166902.	1.1	7
101	Lipid Profiles From Fresh Biofilms Along a Temperature Gradient on a Hydrothermal Stream at El Tatio (Chilean Andes), as a Proxy for the Interpretation of Past and Present Biomarkers Beyond Earth. Frontiers in Microbiology, 0, 13, .	1.5	7
102	Overproduction and purification of an agarase of bacterial origin. Journal of Biotechnology, 1997, 58, 59-66.	1.9	6
103	Antibody Microarrays for Environmental Monitoring. , 2010, , 2699-2710.		6
104	Surface Morphologies in a Mars-Analog Ca-Sulfate Salar, High Andes, Northern Chile. Frontiers in Astronomy and Space Sciences, 2022, 8, .	1.1	6
105	Atacama Rover Astrobiology Drilling Studies Project: Second Year. , 2018, , .		5
106	Geomicrobiological Heterogeneity of Lithic Habitats in the Extreme Environment of Antarctic Nunataks: A Potential Early Mars Analog. Frontiers in Microbiology, 2021, 12, 670982.	1.5	5
107	Formation of ironâ€rich shelled structures by microbial communities. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 147-168.	1.3	4
108	Expression of an heterologous gene activating actinorhodin biosynthesis inStreptomyces lividansandStreptomyces coelicolor. FEMS Microbiology Letters, 1994, 116, 301-306.	0.7	3

#	Article	IF	Citations
109	Differential Gene Expression of Industrial Bioleaching Transcriptomes by Leptospirillum Ferrooxidans DNA Microarray. Advanced Materials Research, 2009, 71-73, 227-230.	0.3	3
110	Microbial Ecology of Leptospirillum spp. in RÃo Tinto, a Model of Interest to Biohydrometallurgy. Advanced Materials Research, 2007, 20-21, 409-412.	0.3	2
111	Applications of extremophiles in astrobiology: Habitability and life detection strategies. , 2012, , 199-229.		2
112	Introductionâ€"Centro de AstrobiologÃa: 20 Years Building Astrobiology. Astrobiology, 2020, 20, 1025-1028.	1.5	2
113	A Multiplex Immunosensor for Detecting Perchlorate-Reducing Bacteria for Environmental Monitoring and Planetary Exploration. Frontiers in Microbiology, 2020, 11, 590736.	1.5	2
114	Streptomyces lividans possesses a GroEL-like chaperonin. FEMS Microbiology Letters, 1992, 93, 127-132.	0.7	2
115	The Dynamic Genomes of Acidophiles. Cellular Origin and Life in Extreme Habitats, 2013, , 81-97.	0.3	1
116	A Test in a High Altitude Lake of a Multi-Parametric Rapid Methodology for Assessing Life in Liquid Environments on Planetary Bodies: A Potential New Freshwater Polychaete Tubeworm Community. Frontiers in Environmental Science, 2019, 7, .	1.5	1
117	Biomonitoring by Antibody Microarrays. , 2010, , 4063-4071.		1
118	Heterologous recognition in vivo of promoter sequences from the Streptomyces coelicolor dagA gene. FEMS Microbiology Letters, 1993, 106, 347-356.	0.7	1
119	Solid: an antibody microarray-based instrument for life detection and planetary exploration. , 2006, , .		0
120	The Icebreaker Sample Acquisition System (SAS). , 2021, , .		0
121	Metagenome. , 2014, , 1-3.		0
122	Metatranscriptome. , 2014, , 1-3.		0
123	Metagenome. , 2015, , 1525-1526.		0
124	Metatranscriptome. , 2015, , 1531-1533.		0
125	Nanophotonic biosensor for space exploration (PBSA instrument). , 2017, , .		0
126	Protein Microarrays-Based Strategies for Life Detection in Astrobiology. Space Sciences Series of ISSI, 2008, , 293-311.	0.0	0