

# Milko Alberto Jorquera

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

3,808  
citations

136950

32  
h-index

144013

57  
g-index

93  
all docs

93  
docs citations

93  
times ranked

4231  
citing authors

#	ARTICLE	IF	CITATIONS
1	MECHANISMS AND PRACTICAL CONSIDERATIONS INVOLVED IN PLANT GROWTH PROMOTION BY RHIZOBACTERIA. <i>Journal of Soil Science and Plant Nutrition</i> , 2010, 10, .	3.4	423
2	Isolation of culturable phosphobacteria with both phytate-mineralization and phosphate-solubilization activity from the rhizosphere of plants grown in a volcanic soil. <i>Biology and Fertility of Soils</i> , 2008, 44, 1025-1034.	4.3	211
3	Current and Future Biotechnological Applications of Bacterial Phytases and Phytase-Producing Bacteria. <i>Microbes and Environments</i> , 2008, 23, 182-191.	1.6	149
4	Chlorpyrifos biodegradation and 3,5,6-trichloro-2-pyridinol production by <i>Actinobacteria</i> isolated from soil. <i>International Biodeterioration and Biodegradation</i> , 2012, 73, 1-7.	3.9	124
5	Endophytic bacteria from selenium-supplemented wheat plants could be useful for plant-growth promotion, biofortification and <i>Gaeumannomyces graminis</i> biocontrol in wheat production. <i>Biology and Fertility of Soils</i> , 2014, 50, 983-990.	4.3	104
6	Enhanced selenium content in wheat grain by co-inoculation of selenobacteria and arbuscular mycorrhizal fungi: A preliminary study as a potential Se biofortification strategy. <i>Journal of Cereal Science</i> , 2013, 57, 275-280.	3.7	102
7	Current opinion and perspectives on the methods for tracking and monitoring plant growth-promoting bacteria. <i>Soil Biology and Biochemistry</i> , 2019, 130, 205-219.	8.8	102
8	Isolation of phytase-producing bacteria from Himalayan soils and their effect on growth and phosphorus uptake of Indian mustard ( <i>Brassica juncea</i> ). <i>World Journal of Microbiology and Biotechnology</i> , 2013, 29, 1361-1369.	3.6	97
9	Airborne bacterial communities of outdoor environments and their associated influencing factors. <i>Environment International</i> , 2020, 145, 106156.	10.0	97
10	Identification of $\beta$ -propeller phytase-encoding genes in culturable <i>Paenibacillus</i> and <i>Bacillus</i> spp. from the rhizosphere of pasture plants on volcanic soils. <i>FEMS Microbiology Ecology</i> , 2011, 75, 163-172.	2.7	91
11	Formulation of bacterial consortia from avocado ( <i>Persea americana</i> Mill.) and their effect on growth, biomass and superoxide dismutase activity of wheat seedlings under salt stress. <i>Applied Soil Ecology</i> , 2016, 102, 80-91.	4.3	89
12	Effect of phosphorus addition on total and alkaline phosphomonoesterase-harboring bacterial populations in ryegrass rhizosphere microsites. <i>Biology and Fertility of Soils</i> , 2016, 52, 1007-1019.	4.3	83
13	Putative Nitrogen-Fixing Bacteria Associated With the Rhizosphere and Root Endosphere of Wheat Plants Grown in an Andisol From Southern Chile. <i>Frontiers in Microbiology</i> , 2018, 9, 2710.	3.5	81
14	Plant Growth-Promoting Rhizobacteria Associated with Ancient Clones of Creosote Bush ( <i>Larrea</i> ) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 2	2.8	78
15	Phytases and Phytase-Labile Organic Phosphorus in Manures and Soils. <i>Critical Reviews in Environmental Science and Technology</i> , 2013, 43, 916-954.	12.8	74
16	Selenobacteria selected from the rhizosphere as a potential tool for Se biofortification of wheat crops. <i>Biology and Fertility of Soils</i> , 2013, 49, 175-185.	4.3	69
17	Activity stabilization of <i>Aspergillus niger</i> and <i>Escherichia coli</i> phytases immobilized on allophanic synthetic compounds and montmorillonite nanoclays. <i>Bioresource Technology</i> , 2011, 102, 9360-9367.	9.6	68
18	Endophytic Bacterial Communities Associated with Roots and Leaves of Plants Growing in Chilean Extreme Environments. <i>Scientific Reports</i> , 2019, 9, 4950.	3.3	68

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19	Aluminum-tolerant bacteria improve the plant growth and phosphorus content in ryegrass grown in a volcanic soil amended with cattle dung manure. <i>Applied Soil Ecology</i> , 2017, 115, 19-26.	4.3	67
20	Addition of inhibitor-producing bacteria to mass cultures of <i>Argopecten purpuratus</i> larvae (Lamarck,) Tj ETQq0 0 0 ggBT /Overlock 10 Tf 3.5 63	3.5	63
21	Disinfection of seawater for hatchery aquaculture systems using electrolytic water treatment. <i>Aquaculture</i> , 2002, 207, 213-224.	3.5	62
22	Bioremediation of soil contaminated with pentachlorophenol by <i>Anthracophyllum discolor</i> and its effect on soil microbial community. <i>Journal of Hazardous Materials</i> , 2010, 181, 315-323.	12.4	61
23	ACCD-producing rhizobacteria from an Andean Altiplano native plant ( <i>Parastrephia quadrangularis</i> ) and their potential to alleviate salt stress in wheat seedlings. <i>Applied Soil Ecology</i> , 2019, 136, 184-190.	4.3	56
24	Bacterial alkaline phosphomonoesterase in the rhizospheres of plants grown in Chilean extreme environments. <i>Biology and Fertility of Soils</i> , 2016, 52, 763-773.	4.3	54
25	Rhizobacterial Community Structures Associated with Native Plants Grown in Chilean Extreme Environments. <i>Microbial Ecology</i> , 2016, 72, 633-646.	2.8	53
26	Copper immobilization by biochar and microbial community abundance in metal-contaminated soils. <i>Science of the Total Environment</i> , 2018, 616-617, 960-969.	8.0	52
27	Screening transesterifiable lipid accumulating bacteria from sewage sludge for biodiesel production. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015, 8, 116-123.	4.4	50
28	Effect of nitrogen and phosphorus fertilization on the composition of rhizobacterial communities of two Chilean Andisol pastures. <i>World Journal of Microbiology and Biotechnology</i> , 2014, 30, 99-107.	3.6	47
29	Occurrence of Soil Fungi in Antarctic Pristine Environments. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 28.	4.1	45
30	Bacterial community structure and detection of putative plant growth-promoting rhizobacteria associated with plants grown in Chilean agro-ecosystems and undisturbed ecosystems. <i>Biology and Fertility of Soils</i> , 2014, 50, 1141-1153.	4.3	41
31	Screening and Characterization of Potentially Suppressive Soils against <i>Gaeumannomyces graminis</i> under Extensive Wheat Cropping by Chilean Indigenous Communities. <i>Frontiers in Microbiology</i> , 2017, 8, 1552.	3.5	41
32	Properties and biotechnological applications of ice-binding proteins in bacteria. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw099.	1.8	38
33	Niche Differentiation in the Composition, Predicted Function, and Co-occurrence Networks in Bacterial Communities Associated With Antarctic Vascular Plants. <i>Frontiers in Microbiology</i> , 2020, 11, 1036.	3.5	34
34	Microencapsulation by spray drying of nitrogen-fixing bacteria associated with lupin nodules. <i>World Journal of Microbiology and Biotechnology</i> , 2014, 30, 2371-2378.	3.6	33
35	Influence of nitrogen fertilisation on pasture culturable rhizobacteria occurrence and the role of environmental factors on their potential PGPR activities. <i>Biology and Fertility of Soils</i> , 2011, 47, 875-885.	4.3	31
36	Bacterial community structures in rhizosphere microsites of ryegrass ( <i>Lolium perenne</i> var. Nui) as revealed by pyrosequencing. <i>Biology and Fertility of Soils</i> , 2014, 50, 1253-1266.	4.3	31

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37	Bacterial Community Profile of the Gut Microbiota Differs between Hypercholesterolemic Subjects and Controls. <i>BioMed Research International</i> , 2017, 2017, 1-6.	1.9	31
38	Effect of cow slurry amendment on atrazine dissipation and bacterial community structure in an agricultural Andisol. <i>Science of the Total Environment</i> , 2010, 408, 2833-2839.	8.0	30
39	Microbial Diversity of Psychrotolerant Bacteria Isolated from Wild Flora of Andes Mountains and Patagonia of Chile towards the Selection of Plant Growth-Promoting Bacterial Consortia to Alleviate Cold Stress in Plants. <i>Microorganisms</i> , 2021, 9, 538.	3.6	30
40	Phytate addition to soil induces changes in the abundance and expression of <i>Bacillus</i> spp. propeller phytase genes in the rhizosphere. <i>FEMS Microbiology Ecology</i> , 2013, 83, 352-360.	2.7	29
41	Bacteria in the culture of the scallop <i>Argopecten purpuratus</i> (Lamarck, 1819). <i>Aquaculture International</i> , 2001, 9, 285-303.	2.2	27
42	Production of partially phosphorylated myo-inositol phosphates using phytases immobilised on magnetic nanoparticles. <i>Bioresource Technology</i> , 2013, 142, 375-383.	9.6	27
43	Bacterial community structures and ice recrystallization inhibition activity of bacteria isolated from the phyllosphere of the Antarctic vascular plant <i>Deschampsia antarctica</i> . <i>Polar Biology</i> , 2017, 40, 1319-1331.	1.2	27
44	Editorial: Bioprospecting and Biotechnology of Extremophiles. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 204.	4.1	27
45	Antarctic <i>Streptomyces fildesensis</i> So13.3 strain as a promising source for antimicrobials discovery. <i>Scientific Reports</i> , 2019, 9, 7488.	3.3	27
46	Phosphobacteria inoculation enhances the benefit of P fertilization on <i>Lolium perenne</i> in soils contrasting in P availability. <i>Soil Biology and Biochemistry</i> , 2019, 136, 1075-1086.	8.8	26
47	Bacterial consortia inoculation mitigates the water shortage and salt stress in an avocado ( <i>Persea</i> ) Tj ETQq1 1 0.784314 rgBT /Overlook	4.3	24
48	Dynamics of phosphorus and phytate-utilizing bacteria during aerobic degradation of dairy cattle dung. <i>Chemosphere</i> , 2009, 74, 325-331.	8.2	23
49	Removal of the insecticide diazinon from liquid media by free and immobilized <i>Streptomyces</i> sp. isolated from agricultural soil. <i>Journal of Basic Microbiology</i> , 2015, 55, 293-302.	3.3	23
50	Effect of rhizobacterial consortia from undisturbed arid- and agro-ecosystems on wheat growth under different conditions. <i>Letters in Applied Microbiology</i> , 2017, 64, 158-163.	2.2	22
51	Screening and Characterization of Phytases from Bacteria Isolated from Chilean Hydrothermal Environments. <i>Microbial Ecology</i> , 2018, 75, 387-399.	2.8	22
52	In Situ Cultivation Approach to Increase the Culturable Bacterial Diversity in the Rhizobiome of Plants. <i>Journal of Soil Science and Plant Nutrition</i> , 2020, 20, 1411-1426.	3.4	22
53	Composition, Predicted Functions and Co-occurrence Networks of Rhizobacterial Communities Impacting Flowering Desert Events in the Atacama Desert, Chile. <i>Frontiers in Microbiology</i> , 2020, 11, 571.	3.5	22
54	Title is missing!. <i>Aquaculture International</i> , 2000, 7, 433-448.	2.2	21

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55	Understanding the Strategies to Overcome Phosphorus Deficiency and Aluminum Toxicity by Ryegrass Endophytic and Rhizosphere Phosphobacteria. <i>Frontiers in Microbiology</i> , 2018, 9, 1155.	3.5	21
56	Cellulase and Hemicellulase Activities and Bacterial Community Composition of Different Soils from Algerian Ecosystems. <i>Microbial Ecology</i> , 2019, 77, 713-725.	2.8	21
57	Detection of aluminium tolerance plasmids and microbial diversity in the rhizosphere of plants grown in acidic volcanic soil. <i>European Journal of Soil Biology</i> , 2010, 46, 255-263.	3.2	20
58	Mycorrhizal inoculation increases genes associated with nitrification and improved nutrient retention in soil. <i>Biology and Fertility of Soils</i> , 2017, 53, 275-279.	4.3	19
59	Draft genome sequences of bacteria isolated from the <i>Deschampsia antarctica</i> phyllosphere. <i>Extremophiles</i> , 2018, 22, 537-552.	2.3	19
60	Rhizobacteria from "flowering desert" events contribute to the mitigation of water scarcity stress during tomato seedling germination and growth. <i>Scientific Reports</i> , 2021, 11, 13745.	3.3	18
61	Protocols for Monitoring Harmful Algal Blooms for Sustainable Aquaculture and Coastal Fisheries in Chile. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7642.	2.6	17
62	Spatiotemporal variations and relationships of phosphorus, phosphomonoesterases, and bacterial communities in sediments from two Chilean rivers. <i>Science of the Total Environment</i> , 2021, 776, 145782.	8.0	17
63	Effect of fungicides on association of arbuscular mycorrhiza fungus <i>Rhizophagus fasciculatus</i> and		

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73	Novel three-phase bioreactor concept for fatty acid alkyl ester production using <i>R. oryzae</i> as whole cell catalyst. <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 2505-2512.	3.6	8
74	Innovative approaches for effective selection of lipase-producing microorganisms as whole cell catalysts for biodiesel production. <i>New Biotechnology</i> , 2011, 28, 375-381.	4.4	8
75	Phytase-producing <i>Bacillus</i> sp. inoculation increases phosphorus availability in cattle manure. <i>Journal of Soil Science and Plant Nutrition</i> , 2016, , 0-0.	3.4	8
76	Responses of Microbiological Soil Properties to Intercropping at Different Planting Densities in an Acidic Andisol. <i>Agronomy</i> , 2020, 10, 781.	3.0	8
77	Suitcase Lab: new, portable, and deployable equipment for rapid detection of specific harmful algae in Chilean coastal waters. <i>Environmental Science and Pollution Research</i> , 2021, 28, 14144-14155.	5.3	8
78	Airborne bacterial community associated with fine particulate matter (PM2.5) under different air quality indices in Temuco city, southern Chile. <i>Archives of Microbiology</i> , 2022, 204, 148.	2.2	7
79	A Combination of Direct Viable Counting, Fluorescence in situ Hybridization, and Green Fluorescent Protein Gene Expression for Estimating Plasmid Transfer at the Single Cell Level. <i>Microbes and Environments</i> , 2006, 21, 101-111.	1.6	6
80	Stimulatory Effect of Glutamine and Pyruvate on Plasmid Transfer between <i>Pseudomonas</i> Strains. <i>Microbes and Environments</i> , 2007, 22, 320-326.	1.6	6
81	Composition and Potential Functions of Rhizobacterial Communities in a Pioneer Plant from Andean Altiplano. <i>Diversity</i> , 2022, 14, 14.	1.7	5
82	Effect of pH on sorption kinetic process of acidic herbicides in a volcanic soil. <i>Journal of Soil Science and Plant Nutrition</i> , 2015, , 0-0.	3.4	4
83	Short-term study shows that phytate-mineralizing rhizobacteria inoculation affects the biomass, phosphorus (P) uptake and rhizosphere properties of cereal plants. <i>Journal of Soil Science and Plant Nutrition</i> , 2015, , 0-0.	3.4	3
84	<i>Vibrio</i> sp. ArtGut-C1, a polyhydroxybutyrate producer isolated from the gut of the aquaculture live diet <i>Artemia</i> (Crustacea). <i>Electronic Journal of Biotechnology</i> , 2021, 49, 22-28.	2.2	3
85	Composition and predicted functions of the bacterial community in spouting pool sediments from the El Tatio Geysers field in Chile. <i>Archives of Microbiology</i> , 2021, 203, 389-397.	2.2	3
86	Compost Fungi Allow for Effective Dispersal of Putative PGP Bacteria. <i>Agronomy</i> , 2021, 11, 1567.	3.0	3
87	16S rRNA-Based Analysis Reveals Differences in the Bacterial Community Present in Tissues of <i>Choromytilus chorus</i> (Mytilidae, Bivalvia) Grown in an Estuary and a Bay in Southern Chile. <i>Diversity</i> , 2021, 13, 209.	1.7	2
88	CRISPR loci-PCR as Tool for Tracking <i>Azospirillum</i> sp. Strain B510. <i>Microorganisms</i> , 2021, 9, 1351.	3.6	2
89	Diversity, Interaction, and Bioprospecting of Plant-Associated Microbiomes. <i>Diversity</i> , 2020, 12, 390.	1.7	1
90	Chilean Geysers And Hotsprings As Source Of Thermotolerant Microbial Phytases. , 2018, , .		0