

Roberto Quiroz

List of Publications by Year in descending order

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79
papers

2,753
citations

159585
30
h-index

197818
49
g-index

81
all docs

81
docs citations

81
times ranked

3615
citing authors

#	ARTICLE	IF	CITATIONS
1	Canopy Temperature as a Key Physiological Trait to Improve Yield Prediction under Water Restrictions in Potato. <i>Agronomy</i> , 2021, 11, 1436.	3.0	7
2	Development of low-cost remote sensing tools and methods for supporting smallholder agriculture. <i>Applied Geomatics</i> , 2020, 12, 247-263.	2.5	29
3	Unraveling Ecophysiological Mechanisms in Potatoes under Different Irrigation Methods: A Preliminary Field Evaluation. <i>Agronomy</i> , 2020, 10, 827.	3.0	8
4	Radiation Interception, Conversion and Partitioning Efficiency in Potato Landraces: How Far Are We from the Optimum?. <i>Plants</i> , 2020, 9, 787.	3.5	6
5	CGIAR modeling approaches for resource-constrained scenarios: I. Accelerating crop breeding for a changing climate. <i>Crop Science</i> , 2020, 60, 547-567.	1.8	45
6	Development of an Open-Source Thermal Image Processing Software for Improving Irrigation Management in Potato Crops (<i>Solanum tuberosum</i> L.). <i>Sensors</i> , 2020, 20, 472.	3.8	19
7	Modelling strategies for assessing and increasing the effectiveness of new phenotyping techniques in plant breeding. <i>Plant Science</i> , 2019, 282, 23-39.	3.6	173
8	Combining reference trials, farm surveys and mathematical models to assess carbon footprint and mitigation measures in tropical agriculture. <i>Annals of Agricultural Sciences</i> , 2019, 64, 188-195.	2.9	2
9	Infrared Radiometry as a Tool for Early Water Deficit Detection: Insights into Its Use for Establishing Irrigation Calendars for Potatoes Under Humid Conditions. <i>Potato Research</i> , 2019, 62, 109-122.	2.7	15
10	Quantifying soil carbon stocks and humification through spectroscopic methods: A scoping assessment in EMBU-Kenya. <i>Journal of Environmental Management</i> , 2019, 234, 476-483.	7.8	9
11	A new assessment in total and extreme rainfall trends over central and southern Peruvian Andes during 1965-2010. <i>International Journal of Climatology</i> , 2018, 38, e998.	3.5	23
12	Preliminary Evidence of Nocturnal Transpiration and Stomatal Conductance in Potato and their Interaction with Drought and Yield. <i>American Journal of Potato Research</i> , 2018, 95, 139-143.	0.9	10
13	Climate change impact on global potato production. <i>European Journal of Agronomy</i> , 2018, 100, 87-98.	4.1	143
14	How big is the potato (<i>Solanum tuberosum</i> L.) yield gap in Sub-Saharan Africa and why? A participatory approach. <i>Open Agriculture</i> , 2018, 3, 180-189.	1.7	33
15	Is Partial Root-Zone Drying More Appropriate than Drip Irrigation to Save Water in China? A Preliminary Comparative Analysis for Potato Cultivation. <i>Potato Research</i> , 2018, 61, 391-406.	2.7	15
16	A framework for scaling sustainable land management options. <i>Land Degradation and Development</i> , 2018, 29, 3272-3284.	3.9	34
17	Land Use Effects on Soil Fertility and Nutrient Cycling in the Peruvian High-Andean Puna Grasslands. <i>Soil Science Society of America Journal</i> , 2018, 82, 463-474.	2.2	15
18	Impact of climate change on the potato crop and biodiversity in its center of origin. <i>Open Agriculture</i> , 2018, 3, 273-283.	1.7	38

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19	Performance of the SUBSTOR-potato model across contrasting growing conditions. <i>Field Crops Research</i> , 2017, 202, 57-76.	5.1	75
20	Emission factors of particulate matter, polycyclic aromatic hydrocarbons, and levoglucosan from wood combustion in south-central Chile. <i>Journal of the Air and Waste Management Association</i> , 2017, 67, 806-813.	1.9	20
21	Key ecosystem services and ecological intensification of agriculture in the tropical high-Andean Puna as affected by land-use and climate changes. <i>Agriculture, Ecosystems and Environment</i> , 2017, 236, 221-233.	5.3	81
22	Characterizing the diversity of sweetpotato through growth parameters and leaf traits: Precocity and light use efficiency as important ordination factors. <i>South African Journal of Botany</i> , 2017, 113, 192-199.	2.5	14
23	Soil organic carbon stocks and fractionation under different land uses in the Peruvian high-Andean Puna. <i>Geoderma</i> , 2017, 307, 65-72.	5.1	26
24	Improving potato cultivation using siphons for partial root-zone drying irrigation: A case study in the Blue Nile river basin, Ethiopia. <i>Open Agriculture</i> , 2017, 2, 255-259.	1.7	4
25	Linking process-based potato models with light reflectance data: Does model complexity enhance yield prediction accuracy?. <i>European Journal of Agronomy</i> , 2017, 82, 104-112.	4.1	20
26	A potato model intercomparison across varying climates and productivity levels. <i>Global Change Biology</i> , 2017, 23, 1258-1281.	9.5	90
27	Multifractal Downscaling of Rainfall Using Normalized Difference Vegetation Index (NDVI) in the Andes Plateau. <i>PLoS ONE</i> , 2017, 12, e0168982.	2.5	9
28	Roots, Tubers and Bananas: Planning and research for climate resilience. <i>Open Agriculture</i> , 2017, 2, 350-361.	1.7	20
29	Defining biological thresholds associated to plant water status for monitoring water restriction effects: Stomatal conductance and photosynthesis recovery as key indicators in potato. <i>Agricultural Water Management</i> , 2016, 177, 369-378.	5.6	49
30	Socio-economic Feasibility of Potato Cultivation in Andhra Pradesh, India. <i>Potato Research</i> , 2016, 59, 167-179.	2.7	3
31	Multiscale assessment of spatial precipitation variability over complex mountain terrain using a high-resolution spatiotemporal wavelet reconstruction method. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12,198.	3.3	10
32	Is Discrimination of ¹³ C in Potato Leaflets and Tubers an Appropriate Trait to Describe Genotype Responses to Restrictive and Well-Watered Conditions?. <i>Journal of Agronomy and Crop Science</i> , 2015, 201, 410-418.	3.5	17
33	Spatial random downscaling of rainfall signals in Andean heterogeneous terrain. <i>Nonlinear Processes in Geophysics</i> , 2015, 22, 383-402.	1.3	11
34	Improving potato drought tolerance through the induction of long-term water stress memory. <i>Plant Science</i> , 2015, 238, 26-32.	3.6	73
35	Leaf greenness as a drought tolerance related trait in potato (<i>Solanum tuberosum</i> L.). <i>Environmental and Experimental Botany</i> , 2015, 110, 27-35.	4.2	95
36	Managing Potato Biodiversity to Cope with Frost Risk in the High Andes: A Modeling Perspective. <i>PLoS ONE</i> , 2014, 9, e81510.	2.5	34

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37	Drought and Heat Tolerance Evaluation in Potato (<i>Solanum tuberosum</i> L.). Potato Research, 2014, 57, 225-247.	2.7	28
38	Chlorophyll concentration in leaves is an indicator of potato tuber yield in water-shortage conditions. Scientia Horticulturae, 2014, 168, 202-209.	3.6	92
39	Potato, sweet potato, and yam models for climate change: A review. Field Crops Research, 2014, 166, 173-185.	5.1	77
40	YIELD AND NUTRIENT UPTAKE IN SWEET POTATO PLANTS GROWN WITH SALT AND WATER STRESS. Revista Chapingo, Serie Horticultura, 2014, XX, 19-28.	0.4	1
41	Effect of partial root-zone drying irrigation timing on potato tuber yield and water use efficiency. Agricultural Water Management, 2013, 123, 65-70.	5.6	70
42	Assessment and optimization of an ultrasound-assisted washing process using organic solvents for polychlorinated biphenyl-contaminated soil. Waste Management and Research, 2013, 31, 969-978.	3.9	2
43	Characterization of Peatland Soils from the High Andes through ¹³ C Nuclear Magnetic Resonance Spectroscopy. Soil Science Society of America Journal, 2013, 77, 673-679.	2.2	11
44	Partial root-zone drying irrigation and water utilization efficiency by the potato crop in semi-arid regions in China. Scientia Horticulturae, 2012, 134, 20-25.	3.6	44
45	Precipitation Characteristics of the South American Monsoon System Derived from Multiple Datasets. Journal of Climate, 2012, 25, 4600-4620.	3.2	46
46	TRMM rainfall correction over the Andean Plateau using wavelet multi-resolution analysis. International Journal of Remote Sensing, 2012, 33, 4583-4602.	2.9	43
47	Detection of bacterial wilt infection caused by <i>Ralstonia solanacearum</i> in potato (<i>Solanum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5 2012, 13, 236-255.	6.0	17
48	TEMPORAL VARIATION OF PAHS IN SOILS FROM THE BIOBÃO REGION: CENTRAL SOUTHERN CHILE. Journal of the Chilean Chemical Society, 2011, 56, 571-573.	1.2	1
49	Carbohydrate metabolism and cell protection mechanisms differentiate drought tolerance and sensitivity in advanced potato clones (<i>Solanum tuberosum</i> L.). Functional and Integrative Genomics, 2011, 11, 275-291.	3.5	36
50	Improving daily rainfall estimation from NDVI using a wavelet transform. Environmental Modelling and Software, 2011, 26, 201-209.	4.5	62
51	Soil carbon stocks and stability across an altitudinal gradient in southern Peru. Journal of Soils and Water Conservation, 2011, 66, 213-220.	1.6	15
52	Spectroscopic Assessment of Soil Organic Matter in Wetlands from the High Andes. Soil Science Society of America Journal, 2010, 74, 2246-2253.	2.2	27
53	Applying Multifractal Analysis to Remotely Sensed Data for Assessing PVY Infection in Potato (<i>Solanum tuberosum</i> L.) Crops. Remote Sensing, 2010, 2, 1197-1216.	4.0	11
54	Conservation and Cardamom Cultivation in Nature Reserve Buffer Zones in the East Usambara Mountains, Tanzania. Journal of Sustainable Forestry, 2010, 29, 696-715.	1.4	5

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55	Quantifying the expression of potato genetic diversity in the high Andes through growth analysis and modeling. <i>Field Crops Research</i> , 2010, 119, 135-144.	5.1	28
56	Characterizing water fingering phenomena in soils using magnetic resonance imaging and multifractal theory. <i>Nonlinear Processes in Geophysics</i> , 2009, 16, 159-168.	1.3	31
57	Assessing Potato Yellow Vein Virus (PVYV) infection using remotely sensed data. <i>International Journal of Pest Management</i> , 2009, 55, 251-256.	1.8	20
58	Sources of polycyclic aromatic hydrocarbons (PAHs) in sediments of the Biobio River in south central Chile. <i>Environmental Chemistry Letters</i> , 2009, 7, 133-139.	16.2	38
59	Spice crops agroforestry systems in the East Usambara Mountains, Tanzania: growth analysis. <i>Agroforestry Systems</i> , 2009, 76, 513-523.	2.0	23
60	MULTIFRACTAL CHARACTERIZATION OF SPATIAL INCOME CURDLING: THEORY AND APPLICATIONS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2008, 11, 861-874.	1.4	1
61	Use of Visual Material for Eliciting Shepherds' Perceptions of Grassland in Highland Peru. <i>Mountain Research and Development</i> , 2007, 27, 146-152.	1.0	5
62	Ecoregional Research for Development. <i>Advances in Agronomy</i> , 2007, 93, 257-311.	5.2	17
63	Polycyclic aromatic hydrocarbons fluxes during the past 50 years observed in dated sediment cores from Andean mountain lakes in central south Chile. <i>Ecotoxicology and Environmental Safety</i> , 2006, 63, 52-60.	6.0	29
64	Pursuing the Millennium Development Goals in the Andean Altiplano. <i>Mountain Research and Development</i> , 2006, 26, 15-19.	1.0	3
65	Small Cardamom "Precious for People, Harmful for Mountain Forests. <i>Mountain Research and Development</i> , 2006, 26, 131-137.	1.0	26
66	PAH fluxes in the Laja Lake of south central Chile Andes over the last 50 years: Evidence from a dated sediment core. <i>Science of the Total Environment</i> , 2005, 349, 150-160.	8.0	49
67	Socio-economic Comparison Between Traditional and Improved Cultivation Methods in Agroforestry Systems, East Usambara Mountains, Tanzania. <i>Environmental Management</i> , 2005, 36, 682-690.	2.7	33
68	Multifractal characterization of the spatial distribution of ulexite in a Bolivian salt flat. <i>International Journal of Remote Sensing</i> , 2005, 26, 615-627.	2.9	15
69	Understanding precipitation patterns and land use interaction in Tibet using harmonic analysis of SPOT VGT and 10 NDVI time series. <i>International Journal of Remote Sensing</i> , 2005, 26, 2281-2296.	2.9	70
70	Persistent toxic substances in soils and waters along an altitudinal gradient in the Laja River Basin, Central Southern Chile. <i>Chemosphere</i> , 2005, 58, 905-915.	8.2	92
71	Atmospheric transmissivity: distribution and empirical estimation around the central Andes. <i>International Journal of Climatology</i> , 2004, 24, 1121-1136.	3.5	46
72	Poverty and the Deterioration of Natural Soil Capital in the Peruvian Altiplano. <i>Environment, Development and Sustainability</i> , 2003, 5, 477-490.	5.0	11

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73	Is Poverty to Blame for Soil, Pasture and Forest Degradation in Peru's Altiplano?. World Development, 2003, 31, 1903-1919.	4.9	67
74	Quantifying energy dissipation by grazing animals in harsh environments. Journal of Theoretical Biology, 2003, 225, 351-359.	1.7	16
75	Multifractal Characterization of Soil Pore Systems. Soil Science Society of America Journal, 2003, 67, 1361-1369.	2.2	164
76	Tailoring agricultural extension to different production contexts: a user-friendly farm-household model to improve decision-making for participatory research. Agricultural Systems, 2001, 69, 183-198.	6.1	54
77	A simulation model of an alpaca system in the dry puna of the Andes. Agricultural Systems, 1994, 46, 205-225.	6.1	4
78	MIAMH, A predictive model of range ruminant diets in patchy environments. Agricultural Systems, 1993, 43, 381-395.	6.1	5
79	Selection among Nonlinear Models for Rate of Passage Studies in Ruminants. Journal of Animal Science, 1988, 66, 2977.	0.5	41