

Germán Poveda

List of Publications by Year in descending order

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77
papers

3,887
citations

126907

33
h-index

133252

59
g-index

91
all docs

91
docs citations

91
times ranked

4007
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate impacts of the El Niño Southern Oscillation on South America. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 215-231.	29.7	318
2	Annual and inter-annual variability of the present climate in northern South America and southern Mesoamerica. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 234, 3-27.	2.3	317
3	On the existence of Llorón ³ (the rainiest locality on Earth): Enhanced ocean-land-atmosphere interaction by a low-level jet. <i>Geophysical Research Letters</i> , 2000, 27, 1675-1678.	4.0	223
4	Seasonally in ENSO-related precipitation, river discharges, soil moisture, and vegetation index in Colombia. <i>Water Resources Research</i> , 2001, 37, 2169-2178.	4.2	200
5	Feedbacks between Hydrological Processes in Tropical South America and Large-Scale Oceanic Atmospheric Phenomena. <i>Journal of Climate</i> , 1997, 10, 2690-2702.	3.2	190
6	Hydro-climatic variability over the Andes of Colombia associated with ENSO: a review of climatic processes and their impact on one of the Earth's most important biodiversity hotspots. <i>Climate Dynamics</i> , 2011, 36, 2233-2249.	3.8	177
7	Seasonal precipitation patterns along pathways of South American low-level jets and aerial rivers. <i>Water Resources Research</i> , 2014, 50, 98-118.	4.2	143
8	Predicting high-risk years for malaria in Colombia using parameters of El Niño Southern Oscillation. <i>Tropical Medicine and International Health</i> , 1997, 2, 1122-1127.	2.3	120
9	The Diurnal Cycle of Precipitation in the Tropical Andes of Colombia. <i>Monthly Weather Review</i> , 2005, 133, 228-240.	1.4	113
10	Coupling between annual and ENSO timescales in the malaria-climate association in Colombia. <i>Environmental Health Perspectives</i> , 2001, 109, 489-493.	6.0	101
11	The 1877-1878 El Niño episode: associated impacts in South America. <i>Climatic Change</i> , 2009, 92, 389-416.	3.6	101
12	Hydroclimate of the Andes Part I: Main Climatic Features. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	92
13	Landsliding and Its Multiscale Influence on Mountainscapes. <i>BioScience</i> , 2009, 59, 685-698.	4.9	78
14	The Hurst Effect: The scale of fluctuation approach. <i>Water Resources Research</i> , 1993, 29, 3995-4002.	4.2	76
15	Annual and interannual (ENSO) variability of spatial scaling properties of a vegetation index (NDVI) in Amazonia. <i>Remote Sensing of Environment</i> , 2004, 93, 391-401.	11.0	70
16	Impacts of future deforestation and climate change on the hydrology of the Amazon Basin: a multi-model analysis with a new set of land-cover change scenarios. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 1455-1475.	4.9	69
17	Regional patterns of interannual variability of catchment water balances across the continental U.S.: A Budyko framework. <i>Water Resources Research</i> , 2014, 50, 9177-9193.	4.2	68
18	Linking Long-Term Water Balances and Statistical Scaling to Estimate River Flows along the Drainage Network of Colombia. <i>Journal of Hydrologic Engineering - ASCE</i> , 2007, 12, 4-13.	1.9	66

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19	Characteristics of Amazonian climate: Main features. Geophysical Monograph Series, 2009, , 149-162.	0.1	66
20	High Impact Weather Events in the Andes. Frontiers in Earth Science, 2020, 8, .	1.8	65
21	El Niño-Southern Oscillation and aspects of western South American hydro-climatology. Hydrological Processes, 2002, 16, 1247-1260.	2.6	60
22	Moisture Sources and Life Cycle of Convective Systems over Western Colombia. Advances in Meteorology, 2011, 2011, 1-11.	1.6	59
23	CHOCO-JEX: A Research Experiment Focused on the Chocó Low-Level Jet over the Far Eastern Pacific and Western Colombia. Bulletin of the American Meteorological Society, 2019, 100, 779-796.	3.3	54
24	Improved long-term mean annual rainfall fields for Colombia. International Journal of Climatology, 2011, 31, 2194-2212.	3.5	51
25	Needs Assessment for Climate Information on Decadal Timescales and Longer. Procedia Environmental Sciences, 2010, 1, 275-286.	1.4	48
26	Mesoscale convective systems and other precipitation features over the tropical Americas and surrounding seas as seen by TRMM. International Journal of Climatology, 2017, 37, 380-397.	3.5	47
27	Monitoring ecological change during rapid socio-economic and political transitions: Colombian ecosystems in the post-conflict era. Environmental Science and Policy, 2017, 76, 40-49.	4.9	45
28	Detection of long-term trends in monthly hydro-climatic series of Colombia through Empirical Mode Decomposition. Climatic Change, 2014, 123, 301-313.	3.6	43
29	Hydroclimate of the Andes Part II: Hydroclimate Variability and Sub-Continental Patterns. Frontiers in Earth Science, 2021, 8, .	1.8	43
30	Reassessment of Colombia's tropical glaciers retreat rates: are they bound to disappear during the 2010–2020 decade?. Advances in Geosciences, 0, 22, 107-116.	12.0	43
31	The ecology of peace: preparing Colombia for new political and planetary climates. Frontiers in Ecology and the Environment, 2018, 16, 525-531.	4.0	41
32	Conjoint Analysis of Surface and Atmospheric Water Balances in the Andes–Amazon System. Water Resources Research, 2018, 54, 3472-3489.	4.2	38
33	Modelling entomological-climatic interactions of Plasmodium falciparum malaria transmission in two Colombian endemic-regions: contributions to a National Malaria Early Warning System. Malaria Journal, 2006, 5, 66.	2.3	37
34	Nonlinear interactions between the Amazon River basin and the Tropical North Atlantic at interannual timescales. Climate Dynamics, 2018, 50, 2951-2969.	3.8	35
35	Laboratory estimation of the effects of increasing temperatures on the duration of gonotrophic cycle of Anopheles albimanus (Diptera: Culicidae). Memorias Do Instituto Oswaldo Cruz, 2005, 100, 515-520.	1.6	35
36	Interannual hydroclimatic variability and the 2009–2011 extreme ENSO phases in Colombia: from Andean glaciers to Caribbean lowlands. Theoretical and Applied Climatology, 2019, 135, 1531-1544.	2.8	33

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37	Recurrence measure of conditional dependence and applications. <i>Physical Review E</i> , 2017, 95, 052206.	2.1	31
38	Seasonal Shift of the Diurnal Cycle of Rainfall Over Medellin's Valley, Central Andes of Colombia (1998–2005). <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	29
39	A scaling approach to Budyko's framework and the complementary relationship of evapotranspiration in humid environments: case study of the Amazon River basin. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 589-603.	4.9	27
40	Strange attractors in atmospheric boundary-layer turbulence. <i>Boundary-Layer Meteorology</i> , 1993, 64, 175-197.	2.3	25
41	Mixed memory, (non) Hurst effect, and maximum entropy of rainfall in the tropical Andes. <i>Advances in Water Resources</i> , 2011, 34, 243-256.	3.8	25
42	Scaling properties reveal regulation of river flows in the Amazon through a "forest reservoir". <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1735-1748.	4.9	23
43	Ground validation of TRMM 3B43 V7 precipitation estimates over Colombia. Part I: Monthly and seasonal timescales. <i>International Journal of Climatology</i> , 2021, 41, 601-624.	3.5	22
44	Understanding the climate of Amazonia: Progress from LBA. <i>Geophysical Monograph Series</i> , 2009, , 145-147.	0.1	20
45	Diurnally driven scaling properties of Amazonian rainfall fields: Fourier spectra and order- q statistical moments. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	18
46	Coupling between Annual and ENSO Timescales in the Malaria: Climate Association in Colombia. <i>Environmental Health Perspectives</i> , 2001, 109, 489.	6.0	16
47	Forest restoration: Transformative trees. <i>Science</i> , 2019, 366, 316-317.	12.6	16
48	Generalized Synchronization Between ENSO and Hydrological Variables in Colombia: A Recurrence Quantification Approach. <i>Frontiers in Applied Mathematics and Statistics</i> , 2020, 6, .	1.3	16
49	Towards a Mechanistic Understanding of Precipitation Over the Far Eastern Tropical Pacific and Western Colombia, One of the Rainiest Spots on Earth. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033415.	3.3	15
50	Spatiotemporal dynamics of dengue in Colombia in relation to the combined effects of local climate and ENSO. <i>Acta Tropica</i> , 2021, 224, 106136.	2.0	15
51	Role of a simplified hydrological cycle and clouds in regulating the climate-biota system of Daisyworld. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009, 61, 483-497.	1.6	14
52	Limitations of Water Resources Infrastructure for Reducing Community Vulnerabilities to Extremes and Uncertainty of Flood and Drought. <i>Environmental Management</i> , 2018, 62, 1038-1047.	2.7	14
53	Estimación del balance hídrico de la región Pacífica Colombiana. <i>DYNA (Colombia)</i> , 2019, 86, 297-306.	0.4	14
54	Linear and global space-time dependence and Taylor hypotheses for rainfall in the tropical Andes. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	13

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55	Seasonal and interannual variability of the mixed layer heat budget in the Caribbean Sea. <i>Journal of Marine Systems</i> , 2018, 187, 111-127.	2.1	13
56	Nonlinear Forecasting of River Flows in Colombia Based Upon ENSO and Its Associated Economic Value for Hydropower Generation. <i>Advances in Global Change Research</i> , 2003, , 351-371.	1.6	13
57	Statistical scaling, Shannon entropy, and Generalized space-time q -entropy of rainfall fields in tropical South America. <i>Chaos</i> , 2015, 25, 075409.	2.5	12
58	New Insights on Land Surface-Atmosphere Feedbacks over Tropical South America at Interannual Timescales. <i>Water (Switzerland)</i> , 2018, 10, 1095.	2.7	12
59	Seasonal and intraseasonal variability of active and quiescent upwelling events in the Guajira system, southern Caribbean Sea. <i>Continental Shelf Research</i> , 2018, 171, 97-112.	1.8	12
60	Gravity Waves and Other Mechanisms Modulating the Diurnal Precipitation over One of the Rainiest Spots on Earth: Observations and Simulations in 2016. <i>Monthly Weather Review</i> , 2020, 148, 3933-3950.	1.4	12
61	HidroSIG: an interactive digital atlas of Colombia's hydro-climatology. <i>Journal of Hydroinformatics</i> , 2007, 9, 145-156.	2.4	11
62	Integrating knowledge and management regarding the climate-malaria linkages in Colombia. <i>Current Opinion in Environmental Sustainability</i> , 2011, 3, 448-460.	6.3	11
63	Glaciers in Patagonia: Controversy and prospects. <i>Eos</i> , 2012, 93, 212-212.	0.1	10
64	Scaling of entropy and multi-scaling of the time generalized q -entropy in rainfall and streamflows. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 423, 11-26.	2.6	7
65	Testing Taylor's hypothesis in Amazonian rainfall fields during the WETAMC/LBA experiment. <i>Advances in Water Resources</i> , 2005, 28, 1230-1239.	3.8	6
66	Atmosphere-Land Bridge between the Pacific and Tropical North Atlantic SSTs through the Amazon River basin during the 2005 and 2010 droughts. <i>Chaos</i> , 2018, 28, 085705.	2.5	6
67	Concomitant malaria, dengue and COVID-19: an extraordinary challenge for Colombia's public health system. <i>Current Opinion in Environmental Sustainability</i> , 2020, 46, 23-26.	6.3	5
68	A Regional Earth System Data Lab for Understanding Ecosystem Dynamics: An Example from Tropical South America. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	5
69	Peace and the environment at the crossroads: Elections in a conflict-troubled biodiversity hotspot. <i>Environmental Science and Policy</i> , 2022, 135, 77-85.	4.9	5
70	Testing the Beta-Lognormal Model in Amazonian Rainfall Fields Using the Generalized Space q -Entropy. <i>Entropy</i> , 2017, 19, 685.	2.2	4
71	Undermining Colombia's peace and environment. <i>Science</i> , 2021, 373, 289-290.	12.6	4
72	Uncertainty of runoff sensitivity to climate change in the Amazon River basin. <i>Annals of the New York Academy of Sciences</i> , 2021, 1504, 76-94.	3.8	3

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73	Science priorities ignore Colombia's water needs. <i>Nature</i> , 2004, 431, 125-125.	27.8	2
74	Spatiotemporal Dynamics of NDVI, Soil Moisture and ENSO in Tropical South America. <i>Remote Sensing</i> , 2022, 14, 2521.	4.0	2
75	Leaders need to realize that science can offer a route out of poverty. <i>Nature</i> , 2001, 409, 662-662.	27.8	1
76	A conceptual stochastic rainfall-runoff model of an order-one catchment under a stationary precipitation regime. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 35, 2187-2212.	4.0	1
77	Estimation of the Hurst Exponent h and Geos Diagrams for a Non-Stationary Stochastic Process. <i>Water Science and Technology Library</i> , 1994, , 409-420.	0.3	1