

# Germán Poveda

## List of Publications by Year in descending order

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77  
papers

3,887  
citations

156536

32  
h-index

150775

59  
g-index

91  
all docs

91  
docs citations

91  
times ranked

4444  
citing authors

#	ARTICLE	IF	CITATIONS
1	Peace and the environment at the crossroads: Elections in a conflict-troubled biodiversity hotspot. <i>Environmental Science and Policy</i> , 2022, 135, 77-85.	2.4	5
2	Spatiotemporal Dynamics of NDVI, Soil Moisture and ENSO in Tropical South America. <i>Remote Sensing</i> , 2022, 14, 2521.	1.8	2
3	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.	1.8	3
4	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.	1.5	22
5	Hydroclimate of the Andes Part II: Hydroclimate Variability and Sub-Continental Patterns. <i>Frontiers in Earth Science</i> , 2021, 8, .	0.8	43
6	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.	1.2	15
7	Undermining Colombia's peace and environment. <i>Science</i> , 2021, 373, 289-290.	6.0	4
8	A Regional Earth System Data Lab for Understanding Ecosystem Dynamics: An Example from Tropical South America. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	5
9	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.	1.9	1
10	Spatiotemporal dynamics of dengue in Colombia in relation to the combined effects of local climate and ENSO. <i>Acta Tropica</i> , 2021, 224, 106136.	0.9	15
11	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.	3.1	5
12	High Impact Weather Events in the Andes. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	65
13	Hydroclimate of the Andes Part I: Main Climatic Features. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	92
14	Generalized Synchronization Between ENSO and Hydrological Variables in Colombia: A Recurrence Quantification Approach. <i>Frontiers in Applied Mathematics and Statistics</i> , 2020, 6, .	0.7	16
15	Climate impacts of the El Niño Southern Oscillation on South America. <i>Nature Reviews Earth &amp; Environment</i> , 2020, 1, 215-231.	12.2	318
16	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.	0.5	12
17	Forest restoration: Transformative trees. <i>Science</i> , 2019, 366, 316-317.	6.0	16
18	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, .	0.8	29

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19	CHOCO-JEX: A Research Experiment Focused on the Chocó <sup>3</sup> Low-Level Jet over the Far Eastern Pacific and Western Colombia. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 779-796.	1.7	54
20	Interannual hydroclimatic variability and the 2009–2011 extreme ENSO phases in Colombia: from Andean glaciers to Caribbean lowlands. <i>Theoretical and Applied Climatology</i> , 2019, 135, 1531-1544.	1.3	33
21	Estimación del balance hídrico de la región Pacífica Colombiana. <i>DYNA (Colombia)</i> , 2019, 86, 297-306.	0.2	14
22	Conjoint Analysis of Surface and Atmospheric Water Balances in the Andes–Amazon System. <i>Water Resources Research</i> , 2018, 54, 3472-3489.	1.7	38
23	Nonlinear interactions between the Amazon River basin and the Tropical North Atlantic at interannual timescales. <i>Climate Dynamics</i> , 2018, 50, 2951-2969.	1.7	35
24	New Insights on Land Surface-Atmosphere Feedbacks over Tropical South America at Interannual Timescales. <i>Water (Switzerland)</i> , 2018, 10, 1095.	1.2	12
25	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.	0.9	12
26	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.	1.2	14
27	The ecology of peace: preparing Colombia for new political and planetary climates. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, 525-531.	1.9	41
28	Atmosphere-Land Bridge between the Pacific and Tropical North Atlantic SST <sup>TM</sup> s through the Amazon River basin during the 2005 and 2010 droughts. <i>Chaos</i> , 2018, 28, 085705.	1.0	6
29	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.	1.9	23
30	Seasonal and interannual variability of the mixed layer heat budget in the Caribbean Sea. <i>Journal of Marine Systems</i> , 2018, 187, 111-127.	0.9	13
31	Mesoscale convective systems and other precipitation features over the tropical Americas and surrounding seas as seen by $\langle \text{TRMM} \rangle$ . <i>International Journal of Climatology</i> , 2017, 37, 380-397.	1.5	47
32	Recurrence measure of conditional dependence and applications. <i>Physical Review E</i> , 2017, 95, 052206.	0.8	31
33	Monitoring ecological change during rapid socio-economic and political transitions: Colombian ecosystems in the post-conflict era. <i>Environmental Science and Policy</i> , 2017, 76, 40-49.	2.4	45
34	Testing the Beta-Lognormal Model in Amazonian Rainfall Fields Using the Generalized Space q-Entropy. <i>Entropy</i> , 2017, 19, 685.	1.1	4
35	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.	1.9	69
36	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.	1.9	27

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37	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.	1.2	7
38	Statistical scaling, Shannon entropy, and Generalized space-time $q$ -entropy of rainfall fields in tropical South America. <i>Chaos</i> , 2015, 25, 075409.	1.0	12
39	Detection of long-term trends in monthly hydro-climatic series of Colombia through Empirical Mode Decomposition. <i>Climatic Change</i> , 2014, 123, 301-313.	1.7	43
40	Seasonal precipitation patterns along pathways of South American low-level jets and aerial rivers. <i>Water Resources Research</i> , 2014, 50, 98-118.	1.7	143
41	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.	1.7	68
42	Glaciers in Patagonia: Controversy and prospects. <i>Eos</i> , 2012, 93, 212-212.	0.1	10
43	Integrating knowledge and management regarding the climate-malaria linkages in Colombia. <i>Current Opinion in Environmental Sustainability</i> , 2011, 3, 448-460.	3.1	11
44	Moisture Sources and Life Cycle of Convective Systems over Western Colombia. <i>Advances in Meteorology</i> , 2011, 2011, 1-11.	0.6	59
45	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.	1.7	177
46	Mixed memory, (non) Hurst effect, and maximum entropy of rainfall in the tropical Andes. <i>Advances in Water Resources</i> , 2011, 34, 243-256.	1.7	25
47	Improved long-term mean annual rainfall fields for Colombia. <i>International Journal of Climatology</i> , 2011, 31, 2194-2212.	1.5	51
48	Needs Assessment for Climate Information on Decadal Timescales and Longer. <i>Procedia Environmental Sciences</i> , 2010, 1, 275-286.	1.3	48
49	The 1877-1878 El Niño episode: associated impacts in South America. <i>Climatic Change</i> , 2009, 92, 389-416.	1.7	101
50	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.	0.8	14
51	Characteristics of Amazonian climate: Main features. <i>Geophysical Monograph Series</i> , 2009, , 149-162.	0.1	66
52	Landsliding and Its Multiscale Influence on Mountainscapes. <i>BioScience</i> , 2009, 59, 685-698.	2.2	78
53	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
54	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

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55	Understanding the climate of Amazonia: Progress from LBA. Geophysical Monograph Series, 2009, , 145-147.	0.1	20
56	HidroSIG: an interactive digital atlas of Colombia's hydro-climatology. Journal of Hydroinformatics, 2007, 9, 145-156.	1.1	11
57	Linking Long-Term Water Balances and Statistical Scaling to Estimate River Flows along the Drainage Network of Colombia. Journal of Hydrologic Engineering - ASCE, 2007, 12, 4-13.	0.8	66
58	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.	0.8	37
59	Annual and inter-annual variability of the present climate in northern South America and southern Mesoamerica. Palaeogeography, Palaeoclimatology, Palaeoecology, 2006, 234, 3-27.	1.0	317
60	Testing Taylor's hypothesis in Amazonian rainfall fields during the WETAMC/LBA experiment. Advances in Water Resources, 2005, 28, 1230-1239.	1.7	6
61	The Diurnal Cycle of Precipitation in the Tropical Andes of Colombia. Monthly Weather Review, 2005, 133, 228-240.	0.5	113
62	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.	0.8	35
63	Science priorities ignore Colombia's water needs. Nature, 2004, 431, 125-125.	13.7	2
64	Annual and interannual (ENSO) variability of spatial scaling properties of a vegetation index (NDVI) in Amazonia. Remote Sensing of Environment, 2004, 93, 391-401.	4.6	70
65	Nonlinear Forecasting of River Flows in Colombia Based Upon ENSO and Its Associated Economic Value for Hydropower Generation. Advances in Global Change Research, 2003, , 351-371.	1.6	13
66	El Niño-Southern Oscillation and aspects of western South American hydro-climatology. Hydrological Processes, 2002, 16, 1247-1260.	1.1	60
67	Seasonally in ENSO-related precipitation, river discharges, soil moisture, and vegetation index in Colombia. Water Resources Research, 2001, 37, 2169-2178.	1.7	200
68	Coupling between Annual and ENSO Timescales in the Malaria: Climate Association in Colombia. Environmental Health Perspectives, 2001, 109, 489.	2.8	16
69	Coupling between annual and ENSO timescales in the malaria-climate association in Colombia.. Environmental Health Perspectives, 2001, 109, 489-493.	2.8	101
70	Leaders need to realize that science can offer a route out of poverty. Nature, 2001, 409, 662-662.	13.7	1
71	On the existence of Llorón <sup>3</sup> (the rainiest locality on Earth): Enhanced ocean-land-atmosphere interaction by a low-level jet. Geophysical Research Letters, 2000, 27, 1675-1678.	1.5	223
72	Feedbacks between Hydrological Processes in Tropical South America and Large-Scale Ocean-Atmospheric Phenomena. Journal of Climate, 1997, 10, 2690-2702.	1.2	190

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73	Predicting high-risk years for malaria in Colombia using parameters of El Nino Southern Oscillation. Tropical Medicine and International Health, 1997, 2, 1122-1127.	1.0	120
74	Estimation of the Hurst Exponent h and Geos Diagrams for a Non-Stationary Stochastic Process. Water Science and Technology Library, 1994, , 409-420.	0.2	1
75	Strange attractors in atmospheric boundary-layer turbulence. Boundary-Layer Meteorology, 1993, 64, 175-197.	1.2	25
76	The Hurst Effect: The scale of fluctuation approach. Water Resources Research, 1993, 29, 3995-4002.	1.7	76
77	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