

# Ricardo Sanchez Murillo

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

1,026  
citations

430754

18  
h-index

477173

29  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1027  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracer-aided modelling reveals quick runoff generation and young streamflow ages in a tropical rainforest catchment. <i>Hydrological Processes</i> , 2022, 36, .	1.1	7
2	Deciphering complex groundwater age distributions and recharge processes in a tropical and fractured volcanic multi-aquifer system. <i>Hydrological Processes</i> , 2022, 36, .	1.1	5
3	Distinguishing the Regional Atmospheric Controls on Precipitation Isotopic Variability in the Central-Southeast Portion of Brazil. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 1693-1708.	1.9	3
4	Water stable isotopes reveal a complex rainfall to groundwater connectivity in central Honduras. <i>Science of the Total Environment</i> , 2022, , 156941.	3.9	1
5	On the Potential of Biochar Soil Amendments as a Sustainable Water Management Strategy. <i>Sustainability</i> , 2022, 14, 7026.	1.6	3
6	Isotopic variability ( $\delta^{18}O$ , $\delta^2H$ and d-excess) during rainfall events of the north American monsoon across the Sonora River Basin, Mexico. <i>Journal of South American Earth Sciences</i> , 2021, 105, 102928.	0.6	7
7	Stable isotopes reveal groundwater to river connectivity in a mesoscale subtropical watershed. <i>Isotopes in Environmental and Health Studies</i> , 2021, 57, 236-253.	0.5	5
8	End member and Bayesian mixing models consistently indicate near-surface flowpath dominance in a pristine humid tropical rainforest. <i>Hydrological Processes</i> , 2021, 35, e14153.	1.1	16
9	A preliminary isotope-based evapotranspiration partitioning approach for tropical Costa Rica. <i>Ecohydrology</i> , 2021, 14, e2297.	1.1	7
10	Chirripó hydrological research site: Advancing stable isotope hydrology in the Central American páramo. <i>Hydrological Processes</i> , 2021, 35, e14181.	1.1	6
11	Stable isotopic characterization of nitrate wet deposition in the tropical urban atmosphere of Costa Rica. <i>Environmental Science and Pollution Research</i> , 2021, 28, 67577-67592.	2.7	8
12	Isotopic composition and major ion concentrations of national and international bottled waters in Costa Rica. <i>Data in Brief</i> , 2021, 38, 107277.	0.5	2
13	Hydrogeochemical baseline in a human-altered landscape of the central Pacific coast of Costa Rica. <i>Environmental Geochemistry and Health</i> , 2020, 42, 2685-2701.	1.8	4
14	Bayesian estimates of the mean recharge elevations of water sources in the Central America region using stable water isotopes. <i>Journal of Hydrology: Regional Studies</i> , 2020, 32, 100739.	1.0	7
15	Modelling non-stationary water ages in a tropical rainforest: A preliminary spatially distributed assessment. <i>Hydrological Processes</i> , 2020, 34, 4776-4793.	1.1	12
16	Tracing Water Sources and Fluxes in a Dynamic Tropical Environment: From Observations to Modeling. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	17
17	From mountains to cities: a novel isotope hydrological assessment of a tropical water distribution system. <i>Isotopes in Environmental and Health Studies</i> , 2020, 56, 606-623.	0.5	10
18	Isotope composition of carbon dioxide and methane in a tropical urban atmosphere. <i>Isotopes in Environmental and Health Studies</i> , 2020, 56, 624-643.	0.5	3

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19	Environmental isotope applications in Latin America and the Caribbean region. <i>Isotopes in Environmental and Health Studies</i> , 2020, 56, 387-390.	0.5	3
20	Hydrological dataset of a sub-humid continental plain basin (Buenos Aires, Argentina). <i>Data in Brief</i> , 2020, 33, 106400.	0.5	4
21	Rainfall, groundwater, and surface water isotope data from extreme tropical cyclones (2016-2019) within the Caribbean Sea and Atlantic Ocean basins. <i>Data in Brief</i> , 2020, 30, 105633.	0.5	10
22	Headwaters drive streamflow and lowland tracer export in a large-scale humid tropical catchment. <i>Hydrological Processes</i> , 2020, 34, 3824-3841.	1.1	13
23	Tracer hydrology of the data-scarce and heterogeneous Central American Isthmus. <i>Hydrological Processes</i> , 2020, 34, 2660.	1.1	19
24	Data Descriptor: Daily observations of stable isotope ratios of rainfall in the tropics. <i>Scientific Reports</i> , 2019, 9, 14419.	1.6	40
25	Deciphering key processes controlling rainfall isotopic variability during extreme tropical cyclones. <i>Nature Communications</i> , 2019, 10, 4321.	5.8	52
26	Regional atmospheric dynamics govern interannual and seasonal stable isotope composition in southeastern Brazil. <i>Journal of Hydrology</i> , 2019, 579, 124136.	2.3	16
27	GPS Precipitable Water Vapor Estimations over Costa Rica: A Comparison against Atmospheric Sounding and Moderate Resolution Imaging Spectrometer (MODIS). <i>Climate</i> , 2019, 7, 63.	1.2	7
28	Exploring extreme rainfall impacts on flow and turbidity dynamics in a steep, pristine and tropical volcanic catchment. <i>Catena</i> , 2019, 182, 104118.	2.2	23
29	DOC Transport and Export in a Dynamic Tropical Catchment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1665-1679.	1.3	15
30	Moisture transport and seasonal variations in the stable isotopic composition of rainfall in Central American and Andean Páramo during El Niño conditions (2015-2016). <i>Hydrological Processes</i> , 2019, 33, 1802-1817.	1.1	48
31	Preface to stable isotopes in hydrological studies in the tropics: Ecohydrological perspectives in a changing climate. <i>Hydrological Processes</i> , 2019, 33, 2160-2165.	1.1	7
32	Isotopic composition of precipitation during strong El Niño-Southern Oscillation events in the Southeast Region of Brazil. <i>Hydrological Processes</i> , 2019, 33, 647-660.	1.1	7
33	Hydrogeological responses in tropical mountainous springs. <i>Isotopes in Environmental and Health Studies</i> , 2019, 55, 25-40.	0.5	10
34	Climate and Water Conflicts Coevolution from Tropical Development and Hydro-Climatic Perspectives: A Case Study of Costa Rica. <i>Journal of the American Water Resources Association</i> , 2018, 54, 451-470.	1.0	20
35	Insight into the stable isotopic composition of glacial lakes in a tropical alpine ecosystem: Costa Rica. <i>Hydrological Processes</i> , 2018, 32, 3588-3603.	1.1	25
36	Isotope hydrology of a tropical coffee agroforestry watershed: Seasonal and event-based analyses. <i>Hydrological Processes</i> , 2018, 32, 1965-1977.	1.1	6

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37	Groundwater and surface water connectivity within the recharge area of Guarani aquifer system during El Niño 2014-2016. Hydrological Processes, 2018, 32, 2483-2495.	1.1	22
38	Characterization of surface water isotope spatial patterns of Scotland. Journal of Geochemical Exploration, 2018, 194, 71-80.	1.5	20
39	Spatially distributed tracer-aided modelling to explore water and isotope transport, storage and mixing in a pristine, humid tropical catchment. Hydrological Processes, 2018, 32, 3206-3224.	1.1	27
40	Isotopic characterization of waters across Chile. , 2018, , 205-230.		5
41	Isotopic composition in precipitation and groundwater in the northern mountainous region of the Central Valley of Costa Rica. Isotopes in Environmental and Health Studies, 2017, 53, 1-17.	0.5	22
42	Tropical precipitation anomalies and $\delta^{18}O$ -excess evolution during El Niño 2014-16. Hydrological Processes, 2017, 31, 956-967.	1.1	44
43	Hydroclimatic and ecohydrological resistance/resilience conditions across tropical biomes of Costa Rica. Ecohydrology, 2017, 10, e1860.	1.1	18
44	Stable isotopes evidence of recycled subduction fluids in the hydrothermal/volcanic activity across Nicaragua and Costa Rica. Journal of Volcanology and Geothermal Research, 2017, 345, 172-183.	0.8	6
45	Methane Dynamics in a Tropical Serpentinizing Environment: The Santa Elena Ophiolite, Costa Rica. Frontiers in Microbiology, 2017, 8, 916.	1.5	64
46	Key drivers controlling stable isotope variations in daily precipitation of Costa Rica: Caribbean Sea versus Eastern Pacific Ocean moisture sources. Quaternary Science Reviews, 2016, 131, 250-261.	1.4	68
47	Identifying groundwater recharge connections in the Moscow (USA) sub-basin using isotopic tracers and a soil moisture routing model. Hydrogeology Journal, 2016, 24, 1739-1751.	0.9	9
48	Groundwater recharge mechanisms inferred from isoscapes in a complex tropical mountainous region. Geophysical Research Letters, 2016, 43, 5060-5069.	1.5	66
49	Tracking the water fingerprints of Cocos Island: a stable isotope analysis of precipitation, surface water, and groundwater. Revista De Biología Tropical, 2016, 64, 105.	0.1	6
50	Isotope hydrology and baseflow geochemistry in natural and human-altered watersheds in the Inland Pacific Northwest, USA. Isotopes in Environmental and Health Studies, 2015, 51, 231-254.	0.5	37
51	Baseflow recession analysis in the inland Pacific Northwest of the United States. Hydrogeology Journal, 2015, 23, 287-303.	0.9	42
52	Near Surface Carbon Dioxide and Methane in Urban Areas of Costa Rica. Open Journal of Air Pollution, 2015, 04, 208-223.	0.4	6
53	Geochemical evidence for active tropical serpentinization in the Santa Elena Ophiolite, Costa Rica: An analog of a humid early Earth?. Geochemistry, Geophysics, Geosystems, 2014, 15, 1783-1800.	1.0	64
54	Ecohydrological analysis of Steelhead ( <i>Oncorhynchus mykiss</i> ) habitat in an effluent dependent stream in the Pacific Northwest, USA. Ecohydrology, 2014, 7, 557-568.	1.1	4

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55	Spatial and Temporal Variation of Stable Isotopes in Precipitation across Costa Rica: An Analysis of Historic GNIP Records. Open Journal of Modern Hydrology, 2013, 03, 226-240.	0.4	45
56	Variaci3n espacial de la composici3n de 222Rn en los acu3feros Barva y Colima Superior, Costa Rica. Revista Geol3gica De Am3rica Central, 0, 55, .	0.1	2