Ricardo Sanchez Murillo

List of Publications by Year
in descending order

56	1,026	430754	477173
papers	citations	18 h-index	29 g-index

60	60	60	1027
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Groundwater recharge mechanisms inferred from isoscapes in a complex tropical mountainous region. Geophysical Research Letters, 2016, 43, 5060-5069.	1.5	66
3	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
4	Methane Dynamics in a Tropical Serpentinizing Environment: The Santa Elena Ophiolite, Costa Rica. Frontiers in Microbiology, 2017, 8, 916.	1.5	64
5	Deciphering key processes controlling rainfall isotopic variability during extreme tropical cyclones. Nature Communications, 2019, 10, 4321.	5.8	52
6	Moisture transport and seasonal variations in the stable isotopic composition of rainfall in <scp>Central American</scp> and <scp>Andean PÃ¡ramo</scp> during <scp>El NiÃ±o</scp> conditions (2015â€“2016). Hydrological Processes, 2019, 33, 1802-1817.	1.1	48
7	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
8	Tropical precipitation anomalies and d -excess evolution during El NiÃ±o 2014-16. Hydrological Processes, 2017, 31, 956-967.	1.1	44
9	Baseflow recession analysis in the inland Pacific Northwest of the United States. Hydrogeology Journal, 2015, 23, 287-303.	0.9	42
10	Data Descriptor: Daily observations of stable isotope ratios of rainfall in the tropics. Scientific Reports, 2019, 9, 14419.	1.6	40
11	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
12	Spatially distributed tracerâ€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
13	Insight into the stable isotopic composition of glacial lakes in a tropical alpine ecosystem: <scp>C</scp>hirripÃ³, <scp>C</scp>osta <scp>R</scp>ica. Hydrological Processes, 2018, 32, 3588-3603.	1.1	25
14	Exploring extreme rainfall impacts on flow and turbidity dynamics in a steep, pristine and tropical volcanic catchment. Catena, 2019, 182, 104118.	2.2	23
15	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
16	Groundwater and surface water connectivity within the recharge area of Guarani aquifer system during El NiÃ±o 2014â€“2016. Hydrological Processes, 2018, 32, 2483-2495.	1.1	22
17	Climate and Water Conflicts Coevolution from Tropical Development and Hydroâ€Climatic Perspectives: A Case Study of Costa Rica. Journal of the American Water Resources Association, 2018, 54, 451-470.	1.0	20
18	Characterization of surface water isotope spatial patterns of Scotland. Journal of Geochemical Exploration, 2018, 194, 71-80.	1.5	20

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19	Tracer hydrology of the dataâ€scarce and heterogeneous Central American Isthmus. Hydrological Processes, 2020, 34, 2660.	1.1	19
20	Hydroclimatic and ecohydrological resistance/resilience conditions across tropical biomes of <scp>C</scp>osta <scp>R</scp>ica. Ecohydrology, 2017, 10, e1860.	1.1	18
21	Tracing Water Sources and Fluxes in a Dynamic Tropical Environment: From Observations to Modeling. Frontiers in Earth Science, 2020, 8, .	0.8	17
22	Regional atmospheric dynamics govern interannual and seasonal stable isotope composition in southeastern Brazil. Journal of Hydrology, 2019, 579, 124136.	2.3	16
23	End member and Bayesian mixing models consistently indicate nearâ€surface flowpath dominance in a pristine humid tropical rainforest. Hydrological Processes, 2021, 35, e14153.	1.1	16
24	DOC Transport and Export in a Dynamic Tropical Catchment. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1665-1679.	1.3	15
25	Headwaters drive streamflow and lowland tracer export in a largeâ€scale humid tropical catchment. Hydrological Processes, 2020, 34, 3824-3841.	1.1	13
26	Modelling nonâ€stationary water ages in a tropical rainforest: A preliminary spatially distributed assessment. Hydrological Processes, 2020, 34, 4776-4793.	1.1	12
27	Hydrogeological responses in tropical mountainous springs. Isotopes in Environmental and Health Studies, 2019, 55, 25-40.	0.5	10
28	From mountains to cities: a novel isotope hydrological assessment of a tropical water distribution system. Isotopes in Environmental and Health Studies, 2020, 56, 606-623.	0.5	10
29	Rainfall, groundwater, and surface water isotope data from extreme tropical cyclones (2016-2019) within the Caribbean Sea and Atlantic Ocean basins. Data in Brief, 2020, 30, 105633.	0.5	10
30	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
31	Stable isotopic characterization of nitrate wet deposition in the tropical urban atmosphere of Costa Rica. Environmental Science and Pollution Research, 2021, 28, 67577-67592.	2.7	8
32	GPS Precipitable Water Vapor Estimations over Costa Rica: A Comparison against Atmospheric Sounding and Moderate Resolution Imaging Spectrometer (MODIS). Climate, 2019, 7, 63.	1.2	7
33	Preface to stable isotopes in hydrological studies in the tropics: Ecohydrological perspectives in a changing climate. Hydrological Processes, 2019, 33, 2160-2165.	1.1	7
34	Isotopic composition of precipitation during strong El NiÃ±oâ€“Southern Oscillation events in the Southeast Region of Brazil. Hydrological Processes, 2019, 33, 647-660.	1.1	7
35	Bayesian estimates of the mean recharge elevations of water sources in the Central America region using stable water isotopes. Journal of Hydrology: Regional Studies, 2020, 32, 100739.	1.0	7
36	Isotopic variability (Î´18O, Î´2H and d-excess) during rainfall events of the north American monsoon across the Sonora River Basin, Mexico. Journal of South American Earth Sciences, 2021, 105, 102928.	0.6	7

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37	A preliminary isotopeâ€based evapotranspiration partitioning approach for tropical Costa Rica. Ecohydrology, 2021, 14, e2297.	1.1	7
38	Tracerâ€aided modelling reveals quick runoff generation and young streamflow ages in a tropical rainforest catchment. Hydrological Processes, 2022, 36, .	1.1	7
39	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
40	Isotope hydrology of a tropical coffee agroforestry watershed: Seasonal and eventâ€based analyses. Hydrological Processes, 2018, 32, 1965-1977.	1.1	6
41	ChirripÃ³ hydrological research site: Advancing stable isotope hydrology in the Central American PÃ¡ramo. Hydrological Processes, 2021, 35, e14181.	1.1	6
42	Tracking the water fingerprints of Cocos Island: a stable isotope analysis of precipitation, surface water, and groundwater. Revista De Biologia Tropical, 2016, 64, 105.	0.1	6
43	Near Surface Carbon Dioxide and Methane in Urban Areas of Costa Rica. Open Journal of Air Pollution, 2015, 04, 208-223.	0.4	6
44	Stable isotopes reveal groundwater to river connectivity in a mesoscale subtropical watershed. Isotopes in Environmental and Health Studies, 2021, 57, 236-253.	0.5	5
45	Isotopic characterization of waters across chile. , 2018, , 205-230.		5
46	Deciphering complex groundwater age distributions and recharge processes in a tropical and fractured volcanic multiâ€aquifer system. Hydrological Processes, 2022, 36, .	1.1	5
47	Ecohydrological analysis of Steelhead (Oncorhynchus mykiss) habitat in an effluent dependent stream in the Pacific Northwest, USA. Ecohydrology, 2014, 7, 557-568.	1.1	4
48	Hydrogeochemical baseline in a human-altered landscape of the central Pacific coast of Costa Rica. Environmental Geochemistry and Health, 2020, 42, 2685-2701.	1.8	4
49	Hydrological dataset of a sub-humid continental plain basin (Buenos Aires, Argentina). Data in Brief, 2020, 33, 106400.	0.5	4
50	Isotope composition of carbon dioxide and methane in a tropical urban atmosphere. Isotopes in Environmental and Health Studies, 2020, 56, 624-643.	0.5	3
51	Environmental isotope applications in Latin America and the Caribbean region. Isotopes in Environmental and Health Studies, 2020, 56, 387-390.	0.5	3
52	Distinguishing the Regional Atmospheric Controls on Precipitation Isotopic Variability in the Central-Southeast Portion of Brazil. Advances in Atmospheric Sciences, 2022, 39, 1693-1708.	1.9	3
53	On the Potential of Biochar Soil Amendments as a Sustainable Water Management Strategy. Sustainability, 2022, 14, 7026.	1.6	3
54	Isotopic composition and major ion concentrations of national and international bottled waters in Costa Rica. Data in Brief, 2021, 38, 107277.	0.5	2

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55	VariaciÃ³n espacial de la composiciÃ³n de 222Rn en los acuÃferos Barva y Colima Superior, Costa Rica. Revista GeolÃ³gica De AmÃ©rica Central, 0, 55, .	0.1	2
56	Water stable isotopes reveal a complex rainfall to groundwater connectivity in central Honduras. Science of the Total Environment, 2022, , 156941.	3.9	1