

Jesus D Gomez-Velez

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,484
citations

361413

20
h-index

361022

35
g-index

48
all docs

48
docs citations

48
times ranked

1739
citing authors

#	ARTICLE	IF	CITATIONS
1	Denitrification in the Mississippi River network controlled by flow through river bedforms. <i>Nature Geoscience</i> , 2015, 8, 941-945.	12.9	247
2	A hydrogeomorphic river network model predicts where and why hyporheic exchange is important in large basins. <i>Geophysical Research Letters</i> , 2014, 41, 6403-6412.	4.0	134
3	Is the Hyporheic Zone Relevant beyond the Scientific Community?. <i>Water (Switzerland)</i> , 2019, 11, 2230.	2.7	113
4	Residence time distributions in sinuosity-driven hyporheic zones and their biogeochemical effects. <i>Water Resources Research</i> , 2012, 48, .	4.2	87
5	How Hydrologic Connectivity Regulates Water Quality in River Corridors. <i>Journal of the American Water Resources Association</i> , 2019, 55, 369-381.	2.4	75
6	Effect of low-permeability layers on spatial patterns of hyporheic exchange and groundwater upwelling. <i>Water Resources Research</i> , 2014, 50, 5196-5215.	4.2	73
7	Large Aperture Scintillometer Intercomparison Study. <i>Boundary-Layer Meteorology</i> , 2008, 128, 133-150.	2.3	68
8	Thresholds of lake and reservoir connectivity in river networks control nitrogen removal. <i>Nature Communications</i> , 2018, 9, 2779.	12.8	68
9	Age distributions and dynamically changing hydrologic systems: Exploring topography-driven flow. <i>Water Resources Research</i> , 2013, 49, 1503-1522.	4.2	59
10	Flow and Residence Times of Dynamic River Bank Storage and Sinuosity-Driven Hyporheic Exchange. <i>Water Resources Research</i> , 2017, 53, 8572-8595.	4.2	53
11	Dynamic Hyporheic Zones: Exploring the Role of Peak Flow Events on Bedform-Induced Hyporheic Exchange. <i>Water Resources Research</i> , 2019, 55, 218-235.	4.2	50
12	Nutrient dynamics in an alpine headwater stream: use of continuous water quality sensors to examine responses to wildfire and precipitation events. <i>Hydrological Processes</i> , 2015, 29, 3193-3207.	2.6	49
13	Small Ponds in Headwater Catchments Are a Dominant Influence on Regional Nutrient and Sediment Budgets. <i>Geophysical Research Letters</i> , 2019, 46, 9669-9677.	4.0	45
14	Are we missing the tail (and the tale) of residence time distributions in watersheds?. <i>Geophysical Research Letters</i> , 2013, 40, 4633-4637.	4.0	43
15	Floodplain inundation spectrum across the United States. <i>Nature Communications</i> , 2019, 10, 5194.	12.8	36
16	Modeling the Effects of Turbulence on Hyporheic Exchange and Local-to-Global Nutrient Processing in Streams. <i>Water Resources Research</i> , 2018, 54, 5883-5889.	4.2	34
17	Impact of Dynamically Changing Discharge on Hyporheic Exchange Processes Under Gaining and Losing Groundwater Conditions. <i>Water Resources Research</i> , 2018, 54, 10,076.	4.2	32
18	Organizational Principles of Hyporheic Exchange Flow and Biogeochemical Cycling in River Networks Across Scales. <i>Water Resources Research</i> , 2022, 58, .	4.2	26

#	ARTICLE	IF	CITATIONS
19	Impact of Flow Alteration and Temperature Variability on Hyporheic Exchange. <i>Water Resources Research</i> , 2020, 56, e2019WR026225.	4.2	25
20	Test of Scintillometer Saturation Correction Methods Using Field Experimental Data. <i>Boundary-Layer Meteorology</i> , 2010, 137, 493-507.	2.3	22
21	Effects of Successive Peak Flow Events on Hyporheic Exchange and Residence Times. <i>Water Resources Research</i> , 2020, 56, e2020WR027113.	4.2	17
22	The Importance of Capturing Topographic Features for Modeling Groundwater Flow and Transport in Mountainous Watersheds. <i>Water Resources Research</i> , 2018, 54, 10,313.	4.2	16
23	A multirate mass transfer model to represent the interaction of multicomponent biogeochemical processes between surface water and hyporheic zones (SWAT-MRMT-R 1.0). <i>Geoscientific Model Development</i> , 2020, 13, 3553-3569.	3.6	14
24	River Dynamics Control Transit Time Distributions and Biogeochemical Reactions in a Dam-Regulated River Corridor. <i>Water Resources Research</i> , 2020, 56, e2019WR026470.	4.2	12
25	Scintillometer networks for calibration and validation of energy balance and soil moisture remote sensing algorithms. , 2007, , .		9
26	Unifying Advective and Diffusive Descriptions of Bedform Pumping in the Benthic Biolayer of Streams. <i>Water Resources Research</i> , 2020, 56, e2020WR027967.	4.2	9
27	Understanding the relative importance of vertical and horizontal flow in ice-wedge polygons. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 1109-1129.	4.9	9
28	Low threshold for nitrogen concentration saturation in headwaters increases regional and coastal delivery. <i>Environmental Research Letters</i> , 2020, 15, 044018.	5.2	9
29	Dynamic coevolution of baseflow and multiscale groundwater flow system during prolonged droughts. <i>Journal of Hydrology</i> , 2022, 609, 127657.	5.4	9
30	The Effect of Storm Direction on Flood Frequency Analysis. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091918.	4.0	8
31	A One-Dimensional Model for Turbulent Mixing in the Benthic Biolayer of Stream and Coastal Sediments. <i>Water Resources Research</i> , 2020, 56, e2019WR026822.	4.2	7
32	Hot Spots and Hot Moments in the Critical Zone: Identification of and Incorporation into Reactive Transport Models. , 2022, , 9-47.		7
33	Mesocosm experiments identifying hotspots of groundwater upwelling in a water column by fibre optic distributed temperature sensing. <i>Hydrological Processes</i> , 2018, 32, 185-199.	2.6	6
34	How daily groundwater table drawdown affects the diel rhythm of hyporheic exchange. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1905-1921.	4.9	5
35	Dynamic Evapotranspiration Alters Hyporheic Flow and Residence Times in the Intrameander Zone. <i>Water (Switzerland)</i> , 2020, 12, 424.	2.7	2
36	Accounting for Temporal Variability of Streamflow in Estimates of Travel Time. <i>Frontiers in Water</i> , 2020, 2, .	2.3	1

#	ARTICLE	IF	CITATIONS
37	A novel construct for scaling groundwater–river interactions based on machine-guided hydromorphic classification. <i>Environmental Research Letters</i> , 2021, 16, 104016.	5.2	1
38	Identification of Characteristic Spatial Scales to Improve the Performance of Analytical Spectral Solutions to the Groundwater Flow Equation. <i>Water Resources Research</i> , 2021, 57, .	4.2	0