Alejandro Flores

List of Publications by Year
in descending order

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		567281	454955
35	974	15	30
papers	citations	h-index	g-index

56	56	56	1945
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluating longâ€term <scp>Oneâ€Way Atmosphereâ€Hydrology</scp> simulations and the impacts of <scp>Twoâ€Way</scp> coupling in four mountain watersheds. Hydrological Processes, 2022, 36, .	2.6	2
2	From Soils to Streams: Connecting Terrestrial Carbon Transformation, Chemical Weathering, and Solute Export Across Hydrological Regimes. Water Resources Research, 2022, 58, .	4.2	14
3	The Impact of Initial Snow Conditions on the Numerical Weather Simulation of a Northern Rockies Atmospheric River. Journal of Hydrometeorology, 2021, 22, 155-167.	1.9	6
4	Performance of the ecosystem demography model (EDv2.2) in simulating gross primary production capacity and activity in a dryland study area. Agricultural and Forest Meteorology, 2021, 297, 108270.	4.8	2
5	Understanding the effect of fire on vegetation composition and gross primary production in a semi-arid shrubland ecosystem using the Ecosystem Demography (EDv2.2) model. Biogeosciences, 2021, 18, 2027-2045.	3.3	0
6	Topographically moderated soil water seasons impact vegetation dynamics in semiarid mountain catchments: Illustrations from the Dry Creek Experimental Watershed, Idaho, <scp>USA</scp>. Hydrological Processes, 2021, 35, e14421.	2.6	3
7	Leveraging Environmental Research and Observation Networks to Advance Soil Carbon Science. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1047-1055.	3.0	24
8	Regional Scale Dryland Vegetation Classification with an Integrated Lidar-Hyperspectral Approach. Remote Sensing, 2019, 11, 2141.	4.0	10
9	Approximating Input Data to a Snowmelt Model Using Weather Research and Forecasting Model Outputs in Lieu of Meteorological Measurements. Journal of Hydrometeorology, 2019, 20, 847-862.	1.9	12
10	Including Variability across Climate Change Projections in Assessing Impacts on Water Resources in an Intensively Managed Landscape. Water (Switzerland), 2019, 11, 286.	2.7	1
11	Empirical Methods for Remote Sensing of Nitrogen in Drylands May Lead to Unreliable Interpretation of Ecosystem Function. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3993-4004.	6.3	13
12	Hillslope Hydrology in Global Change Research and Earth System Modeling. Water Resources Research, 2019, 55, 1737-1772.	4.2	281
13	Developing and optimizing shrub parameters representing sagebrush (<i>Artemisia</i> spp.) ecosystems in the northern Great Basin using the Ecosystem Demography (EDv2.2) model. Geoscientific Model Development, 2019, 12, 4585-4601.	3.6	3
14	Form and function relationships revealed by longâ€term research in a semiarid mountain catchment. Wiley Interdisciplinary Reviews: Water, 2018, 5, e1267.	6.5	11
15	Climate Change and Curtailment: Evaluating Water Management Practices in the Context of Changing Runoff Regimes in a Snowmelt-Dominated Basin. Water (Switzerland), 2018, 10, 1490.	2.7	4
16	Steering operational synergies in terrestrial observation networks: opportunity for advancing Earth system dynamics modelling. Earth System Dynamics, 2018, 9, 593-609.	7.1	28
17	Combined Assimilation of Satellite Precipitation and Soil Moisture: A Case Study Using TRMM and SMOS Data. Monthly Weather Review, 2017, 145, 4997-5014.	1.4	17
18	Identifying Irrigated Areas in the Snake River Plain, Idaho: Evaluating Performance across Composting Algorithms, Spectral Indices, and Sensors. Remote Sensing, 2017, 9, 546.	4.0	12

#	Article	IF	Citations
19	Assessing a Multi-Platform Data Fusion Technique in Capturing Spatiotemporal Dynamics of Heterogeneous Dryland Ecosystems in Topographically Complex Terrain. Remote Sensing, 2017, 9, 981.	4.0	10
20	Coupling biophysical processes and water rights to simulate spatially distributed water use in an intensively managed hydrologic system. Hydrology and Earth System Sciences, 2017, 21, 3671-3685.	4.9	11
21	Isotopic evidence for lateral flow and diffusive transport, but not sublimation, in a sloped seasonal snowpack, Idaho, USA. Geophysical Research Letters, 2016, 43, 3298-3306.	4.0	27
22	Dynamical Precipitation Downscaling for Hydrologic Applications Using WRF 4D-Var Data Assimilation: Implications for GPM Era. Journal of Hydrometeorology, 2015, 16, 811-829.	1.9	21
23	Bedrock infiltration estimates from a catchment water storage-based modeling approach in the rain snow transition zone. Journal of Hydrology, 2015, 525, 231-248.	5.4	16
24	Application of a hillslope-scale soil moisture data assimilation system to military trafficability assessment. Journal of Terramechanics, 2014, 51, 53-66.	3.1	18
25	Snow distribution, melt and surface water inputs to the soil in the mountain rainâ€“snow transition zone. Journal of Hydrology, 2014, 519, 190-204.	5.4	61
26	A physiographic approach to downscaling fractional snow cover data in mountainous regions. Remote Sensing of Environment, 2014, 152, 413-425.	11.0	18
27	Insights into the physical processes controlling correlations between snow distribution and terrain properties. Water Resources Research, 2014, 50, 4545-4563.	4.2	37
28	Recognizing and modeling variable drawdown due to evapotranspiration in a semiarid riparian zone considering local differences in vegetation and distance from a river source. Water Resources Research, 2013, 49, 1030-1039.	4.2	7
29	Persistent Metal Contamination Limits Lotic Ecosystem Heterotrophic Metabolism after More Than 100 Years of Exposure: A Novel Application of the Resazurin Resorufin Smart Tracer. Environmental Science & Technology, 2012, 46, 9862-9871.	10.0	13
30	Hydrologic data assimilation with a hillslopeâ€scaleâ€resolving model and L band radar observations: Synthetic experiments with the ensemble Kalman filter. Water Resources Research, 2012, 48, .	4.2	23
31	Hillslope asymmetry maps reveal widespread, multiâ€scale organization. Geophysical Research Letters, 2012, 39, .	4.0	59
32	A simplified approach for estimating soil carbon and nitrogen stocks in semi-arid complex terrain. Geoderma, 2011, 165, 1-11.	5.1	96
33	Reproducibility of soil moisture ensembles when representing soil parameter uncertainty using a Latin Hypercubeâ€“based approach with correlation control. Water Resources Research, 2010, 46, .	4.2	15
34	Impact of Hillslope-Scale Organization of Topography, Soil Moisture, Soil Temperature, and Vegetation on Modeling Surface Microwave Radiation Emission. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2557-2571.	6.3	43
35	Channel-reach morphology dependence on energy, scale, and hydroclimatic processes with implications for prediction using geospatial data. Water Resources Research, 2006, 42, .	4.2	42