

# Rafael L Bras

## List of Publications by Year in descending order

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169  
papers

13,238  
citations

20797

60  
h-index

24232

110  
g-index

170  
all docs

170  
docs citations

170  
times ranked

9031  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the extraction of channel networks from digital elevation data. <i>Hydrological Processes</i> , 1991, 5, 81-100.	1.1	898
2	A coupled channel network growth and hillslope evolution model: 1. Theory. <i>Water Resources Research</i> , 1991, 27, 1671-1684.	1.7	602
3	Hillslope processes, drainage density, and landscape morphology. <i>Water Resources Research</i> , 1998, 34, 2751-2764.	1.7	473
4	The fractal nature of river networks. <i>Water Resources Research</i> , 1988, 24, 1317-1322.	1.7	422
5	Precipitation recycling. <i>Reviews of Geophysics</i> , 1996, 34, 367-378.	9.0	381
6	Real-time forecasting with a conceptual hydrologic model: 2. Applications and results. <i>Water Resources Research</i> , 1980, 16, 1034-1044.	1.7	279
7	A stochastic approach to modeling the role of rainfall variability in drainage basin evolution. <i>Water Resources Research</i> , 2000, 36, 1953-1964.	1.7	276
8	Catchment hydrologic response with a fully distributed triangulated irregular network model. <i>Water Resources Research</i> , 2004, 40, .	1.7	268
9	Energy dissipation, runoff production, and the three-dimensional structure of river basins. <i>Water Resources Research</i> , 1992, 28, 1095-1103.	1.7	258
10	Minimum energy and fractal structures of drainage networks. <i>Water Resources Research</i> , 1992, 28, 2183-2195.	1.7	230
11	Vegetation-modulated landscape evolution: Effects of vegetation on landscape processes, drainage density, and topography. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	229
12	A physical basis for drainage density. <i>Geomorphology</i> , 1992, 5, 59-76.	1.1	218
13	An object-oriented framework for distributed hydrologic and geomorphic modeling using triangulated irregular networks. <i>Computers and Geosciences</i> , 2001, 27, 959-973.	2.0	218
14	Results from a new model of river basin evolution. <i>Earth Surface Processes and Landforms</i> , 1991, 16, 237-254.	1.2	215
15	Statistical analysis of drainage density from digital terrain data. <i>Geomorphology</i> , 2001, 36, 187-202.	1.1	204
16	Scaling and elevation in river networks. <i>Water Resources Research</i> , 1989, 25, 2037-2051.	1.7	202
17	A coupled channel network growth and hillslope evolution model: 2. Nondimensionalization and applications. <i>Water Resources Research</i> , 1991, 27, 1685-1696.	1.7	197
18	Vegetation-hydrology dynamics in complex terrain of semiarid areas: 1. A mechanistic approach to modeling dynamic feedbacks. <i>Water Resources Research</i> , 2008, 44, .	1.7	184

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19	Real-time forecasting with a conceptual hydrologic model: 1. Analysis of uncertainty. <i>Water Resources Research</i> , 1980, 16, 1025-1033.	1.7	179
20	Estimation of net radiation from the MODIS data under all sky conditions: Southern Great Plains case study. <i>Remote Sensing of Environment</i> , 2010, 114, 1522-1534.	4.6	173
21	A geomorphoclimatic theory of the instantaneous unit hydrograph. <i>Water Resources Research</i> , 1982, 18, 877-886.	1.7	172
22	Preserving high-resolution surface and rainfall data in operational-scale basin hydrology: a fully-distributed physically-based approach. <i>Journal of Hydrology</i> , 2004, 298, 80-111.	2.3	164
23	Variability in Large-Scale Water Balance with Land Surface-Atmosphere Interaction. <i>Journal of Climate</i> , 1992, 5, 798-813.	1.2	161
24	A physical explanation of an observed link area-slope relationship. <i>Water Resources Research</i> , 1991, 27, 1697-1702.	1.7	150
25	Fractal structures as least energy patterns: The case of river networks. <i>Geophysical Research Letters</i> , 1992, 19, 889-892.	1.5	150
26	On the sensitivity of drainage density to climate change. <i>Water Resources Research</i> , 1998, 34, 855-862.	1.7	150
27	Scaling regimes of local slope versus contributing area in digital elevation models. <i>Geomorphology</i> , 1995, 12, 299-311.	1.1	148
28	The Effect of Spatial Heterogeneities on Geomorphic Expression in a Model of Basin Evolution. <i>Water Resources Research</i> , 1995, 31, 2613-2623.	1.7	147
29	Analysis and characterization of the vertical accuracy of digital elevation models from the Shuttle Radar Topography Mission. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	145
30	Nonlinear Dynamics of Soil Moisture at Climate Scales: 1. Stochastic Analysis. <i>Water Resources Research</i> , 1991, 27, 1899-1906.	1.7	144
31	Generation of Triangulated Irregular Networks Based on Hydrological Similarity. <i>Journal of Hydrologic Engineering - ASCE</i> , 2004, 9, 288-302.	0.8	144
32	Impact of deforestation in the Amazon basin on cloud climatology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3670-3674.	3.3	143
33	Optimal channel networks: A framework for the study of river basin morphology. <i>Water Resources Research</i> , 1993, 29, 1635-1646.	1.7	135
34	A distributed model for real-time flood forecasting using digital elevation models. <i>Journal of Hydrology</i> , 1995, 167, 279-306.	2.3	127
35	Network design for the estimation of areal mean of rainfall events. <i>Water Resources Research</i> , 1976, 12, 1185-1195.	1.7	126
36	Optimal estimators of mean areal precipitation in regions of orographic influence. <i>Journal of Hydrology</i> , 1982, 57, 23-48.	2.3	118

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37	A simple model of river meandering and its comparison to natural channels. <i>Hydrological Processes</i> , 2002, 16, 1-26.	1.1	113
38	On the dynamics of soil moisture, vegetation, and erosion: Implications of climate variability and change. <i>Water Resources Research</i> , 2006, 42, .	1.7	112
39	A physically-based method for removing pits in digital elevation models. <i>Advances in Water Resources</i> , 2007, 30, 2151-2158.	1.7	98
40	The fate of Amazonian ecosystems over the coming century arising from changes in climate, atmospheric $\text{CO}_2$ and land use. <i>Global Change Biology</i> , 2015, 21, 2569-2587.	4.2	97
41	A hydrologically useful station precipitation model: 1. Formulation. <i>Water Resources Research</i> , 1984, 20, 1585-1596.	1.7	96
42	Real-world hydrologic assessment of a fully-distributed hydrological model in a parallel computing environment. <i>Journal of Hydrology</i> , 2011, 409, 483-496.	2.3	95
43	Intraseasonal water allocation in deficit irrigation. <i>Water Resources Research</i> , 1981, 17, 866-874.	1.7	88
44	On the effects of triangulated terrain resolution on distributed hydrologic model response. <i>Hydrological Processes</i> , 2005, 19, 2101-2122.	1.1	88
45	Vegetation-hydrology dynamics in complex terrain of semiarid areas: 2. Energy-water controls of vegetation spatiotemporal dynamics and topographic niches of favorability. <i>Water Resources Research</i> , 2008, 44, .	1.7	88
46	Rainfall-induced landslide susceptibility zonation of Puerto Rico. <i>Environmental Earth Sciences</i> , 2012, 66, 1667-1681.	1.3	88
47	Downstream fining through selective particle sorting in an equilibrium drainage network. <i>Geology</i> , 1999, 27, 1079.	2.0	87
48	A weather generator for hydrological, ecological, and agricultural applications. <i>Water Resources Research</i> , 2007, 43, .	1.7	87
49	Seasonal carbon dynamics and water fluxes in an Amazon rainforest. <i>Global Change Biology</i> , 2012, 18, 1322-1334.	4.2	87
50	Rainfall generation: A nonstationary time-varying multidimensional model. <i>Water Resources Research</i> , 1976, 12, 450-456.	1.7	86
51	Analytical solutions to hillslope subsurface storm flow and saturation overland flow. <i>Water Resources Research</i> , 1998, 34, 921-927.	1.7	86
52	The linear channel and its effect on the geomorphologic IUH. <i>Journal of Hydrology</i> , 1983, 65, 175-208.	2.3	81
53	Network-scale dynamics of grain-size sorting: implications for downstream fining, stream-profile concavity, and drainage basin morphology. <i>Earth Surface Processes and Landforms</i> , 2004, 29, 401-421.	1.2	79
54	Development of gullies on the landscape: A model of headcut retreat resulting from plunge pool erosion. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	79

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55	Eco-geomorphic implications of hillslope aspect: Inferences from analysis of landscape morphology in central New Mexico. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	77
56	The Impact of Observed Deforestation on the Mesoscale Distribution of Rainfall and Clouds in Amazonia. <i>Journal of Hydrometeorology</i> , 2000, 1, 267-286.	0.7	75
57	The importance of spatially heterogeneous erosivity and the cumulative area distribution within a basin evolution model. <i>Geomorphology</i> , 1995, 12, 173-185.	1.1	72
58	Extending the Predictability of Hydrometeorological Flood Events Using Radar Rainfall Nowcasting. <i>Journal of Hydrometeorology</i> , 2006, 7, 660-677.	0.7	69
59	The irrigation scheduling problem and evapotranspiration uncertainty. <i>Water Resources Research</i> , 1981, 17, 1328-1338.	1.7	63
60	Ecohydrologic role of solar radiation on landscape evolution. <i>Water Resources Research</i> , 2015, 51, 1127-1157.	1.7	63
61	The biophysics, ecology, and biogeochemistry of functionally diverse, vertically and horizontally heterogeneous ecosystems: the Ecosystem Demography model, version 2.2 – Part 1: Model description. <i>Geoscientific Model Development</i> , 2019, 12, 4309-4346.	1.3	62
62	Use of Weather Radar for Flood Forecasting in the Sieve River Basin: A Sensitivity Analysis. <i>Journal of Applied Meteorology and Climatology</i> , 1993, 32, 462-475.	1.7	59
63	Effects of initialization on response of a fully-distributed hydrologic model. <i>Journal of Hydrology</i> , 2008, 352, 107-125.	2.3	58
64	Distributed Quantitative Precipitation Forecasting Using Information from Radar and Numerical Weather Prediction Models. <i>Journal of Hydrometeorology</i> , 2003, 4, 1168-1180.	0.7	57
65	Physically based probabilistic models of infiltration, soil moisture, and actual evapotranspiration. <i>Water Resources Research</i> , 1981, 17, 93-106.	1.7	56
66	Hack's relation and optimal channel networks: The elongation of river basins as a consequence of energy minimization. <i>Geophysical Research Letters</i> , 1993, 20, 1583-1586.	1.5	56
67	A kinematic model of infiltration and runoff generation in layered and sloped soils. <i>Advances in Water Resources</i> , 1992, 15, 311-324.	1.7	55
68	Implications of bank failures and fluvial erosion for gully development: Field observations and modeling. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	55
69	A model of surface heat fluxes based on the theory of maximum entropy production. <i>Water Resources Research</i> , 2009, 45, .	1.7	55
70	Multifractal analysis: Pitfalls of standard procedures and alternatives. <i>Physical Review E</i> , 1995, 52, 1387-1398.	0.8	54
71	On the observed ecohydrologic dynamics of a semiarid basin with aspect-delimited ecosystems. <i>Water Resources Research</i> , 2013, 49, 8263-8284.	1.7	54
72	Energy balance at the Earth's surface: Heat flux history in eastern Canada. <i>Geophysical Research Letters</i> , 2000, 27, 3385-3388.	1.5	52

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73	Topographic variability and the influence of soil erosion on the carbon cycle. <i>Global Biogeochemical Cycles</i> , 2016, 30, 644-660.	1.9	49
74	Numerical modeling of non-steady-state river profile evolution using a sediment-flux-dependent incision model. , 2006, , .		47
75	Estimation of Net Radiation From the Moderate Resolution Imaging Spectroradiometer Over the Continental United States. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 2448-2462.	2.7	46
76	Bias Correction of Climate Modeled Temperature and Precipitation Using Artificial Neural Networks. <i>Journal of Hydrometeorology</i> , 2017, 18, 1867-1884.	0.7	46
77	A hydrologically useful station precipitation model: 2. Case studies. <i>Water Resources Research</i> , 1984, 20, 1597-1610.	1.7	45
78	Estimation of Global Ground Heat Flux. <i>Journal of Hydrometeorology</i> , 2008, 9, 744-759.	0.7	43
79	Impact of Hillslope-Scale Organization of Topography, Soil Moisture, Soil Temperature, and Vegetation on Modeling Surface Microwave Radiation Emission. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 2557-2571.	2.7	43
80	Rainfall network design for runoff prediction. <i>Water Resources Research</i> , 1976, 12, 1197-1208.	1.7	42
81	Real-time, statistically linearized, adaptive flood routing. <i>Water Resources Research</i> , 1982, 18, 513-524.	1.7	42
82	Sensitivity of a basin evolution model to the nature of runoff production and to initial conditions. <i>Water Resources Research</i> , 1992, 28, 2733-2741.	1.7	41
83	Ecohydrological response to a geomorphically significant flood event in a semiarid catchment with contrasting ecosystems. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	41
84	Adaptive filtering through detection of isolated transient errors in rainfall-runoff models. <i>Water Resources Research</i> , 1980, 16, 740-748.	1.7	40
85	Geoarchaeological simulation of meandering river deposits and settlement distributions: A three-dimensional approach. <i>Geoarchaeology - an International Journal</i> , 2006, 21, 843-874.	0.7	40
86	Sensitivity of regional climate to deforestation in the Amazon basin. <i>Advances in Water Resources</i> , 1994, 17, 101-115.	1.7	39
87	Hydrologic modeling Of New England river basins using radar rainfall data. <i>Journal of Geophysical Research</i> , 1990, 95, 2143-2152.	3.3	37
88	An extremum principle of evaporation. <i>Water Resources Research</i> , 2004, 40, .	1.7	37
89	Estimation of flood frequency: An evaluation of two derived distribution procedures. <i>Water Resources Research</i> , 1987, 23, 1309-1319.	1.7	35
90	Impacts of surface elevation on the growth and scaling properties of simulated river networks. <i>Geomorphology</i> , 2001, 40, 37-55.	1.1	35

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91	Application of nonlinear filtering in the real time forecasting of river flows. <i>Water Resources Research</i> , 1987, 23, 675-682.	1.7	34
92	A model of river basin evolution. <i>Eos</i> , 1990, 71, 1806.	0.1	34
93	Sensitivity of a physically based method for terrain interpolation to initial conditions and its conditioning on stream location. <i>Earth Surface Processes and Landforms</i> , 2004, 29, 587-597.	1.2	34
94	tRIBS-Erosion: A parsimonious physically-based model for studying catchment hydro-geomorphic response. <i>Catena</i> , 2012, 92, 216-231.	2.2	34
95	A maximum hypothesis of transpiration. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	33
96	Uncertainty propagation with numerical models for flow and transport in the unsaturated zone. <i>Water Resources Research</i> , 1990, 26, 2463-2474.	1.7	31
97	The one-dimensional approximation for infiltration in heterogeneous soils. <i>Water Resources Research</i> , 1991, 27, 1019-1027.	1.7	31
98	The relationship between catchment and hillslope properties: implications of a catchment evolution model. <i>Geomorphology</i> , 1992, 5, 21-37.	1.1	30
99	An integrated software environment for real-time use of a distributed hydrologic model. <i>Journal of Hydrology</i> , 1995, 167, 307-326.	2.3	30
100	Dynamic root distributions in ecohydrological modeling: A case study at Walnut Gulch Experimental Watershed. <i>Water Resources Research</i> , 2013, 49, 3292-3305.	1.7	30
101	Shrunken Locally Linear Embedding for Passive Microwave Retrieval of Precipitation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 3720-3736.	2.7	30
102	On the multifractal characterization of river basins. <i>Geomorphology</i> , 1992, 5, 297-310.	1.1	29
103	Embedding landscape processes into triangulated terrain models. <i>International Journal of Geographical Information Science</i> , 2005, 19, 429-457.	2.2	29
104	The biophysics, ecology, and biogeochemistry of functionally diverse, vertically and horizontally heterogeneous ecosystems: the Ecosystem Demography model, version 2.2 – Part 2: Model evaluation for tropical South America. <i>Geoscientific Model Development</i> , 2019, 12, 4347-4374.	1.3	29
105	Conditional Distributions of Neyman-Scott Models for Storm Arrivals and Their Use in Irrigation Scheduling. <i>Water Resources Research</i> , 1985, 21, 317-330.	1.7	28
106	A MODEL FOR WATER UPTAKE AND DEVELOPMENT OF ROOT SYSTEMS. <i>Soil Science</i> , 1987, 144, 352-366.	0.9	28
107	Six Myths About Mathematical Modeling in Geomorphology. <i>Geophysical Monograph Series</i> , 0, , 63-79.	0.1	28
108	Evaluation of mean square error involved in approximating the areal average of a rainfall event by a discrete summation. <i>Water Resources Research</i> , 1976, 12, 181-184.	1.7	27

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109	An Extremum Solution of the Monin-Obukhov Similarity Equations. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 485-499.	0.6	27
110	A physically constrained inversion for high-resolution passive microwave retrieval of soil moisture and vegetation water content in L-band. <i>Remote Sensing of Environment</i> , 2019, 233, 111346.	4.6	26
111	Complexity and organization in hydrology: A personal view. <i>Water Resources Research</i> , 2015, 51, 6532-6548.	1.7	25
112	A new method for estimation of sensible heat flux from air temperature. <i>Water Resources Research</i> , 1998, 34, 2281-2288.	1.7	24
113	Climatological Basin-Scale Amazonian Evapotranspiration Estimated through a Water Budget Analysis. <i>Journal of Hydrometeorology</i> , 2008, 9, 1048-1060.	0.7	24
114	A model of energy budgets over water, snow, and ice surfaces. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6034-6051.	1.2	24
115	Time-averaged areal mean of precipitation: Estimation and network design. <i>Water Resources Research</i> , 1978, 14, 878-888.	1.7	23
116	Multivariate short-term rainfall prediction. <i>Water Resources Research</i> , 1980, 16, 173-185.	1.7	23
117	Hydrologic data assimilation with a hillslope-scale-resolving model and L band radar observations: Synthetic experiments with the ensemble Kalman filter. <i>Water Resources Research</i> , 2012, 48, .	1.7	23
118	Clustered or regular cumulus cloud fields: The statistical character of observed and simulated cloud fields. <i>Journal of Geophysical Research</i> , 1990, 95, 2035-2045.	3.3	21
119	Analytical Solution for Channel Routing with Uniform Lateral Inflow. <i>Journal of Hydraulic Engineering</i> , 1999, 125, 707-713.	0.7	21
120	Identifying the optimal spatially and temporally invariant root distribution for a semiarid environment. <i>Water Resources Research</i> , 2012, 48, .	1.7	21
121	Dynamical Precipitation Downscaling for Hydrologic Applications Using WRF 4D-Var Data Assimilation: Implications for GPM Era. <i>Journal of Hydrometeorology</i> , 2015, 16, 811-829.	0.7	21
122	Soil moisture background error covariance and data assimilation in a coupled land-atmosphere model. <i>Water Resources Research</i> , 2017, 53, 1309-1335.	1.7	21
123	Breaking Down the Computational Barriers to Real-time Urban Flood Forecasting. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093585.	1.5	21
124	Irrigation control in the presence of salinity: Extended linear quadratic approach. <i>Water Resources Research</i> , 1987, 23, 1153-1161.	1.7	20
125	State-space dynamic hydrological modeling of soil-crop-climate interactions. <i>Water Resources Research</i> , 1988, 24, 1765-1779.	1.7	19
126	Application of a hillslope-scale soil moisture data assimilation system to military trafficability assessment. <i>Journal of Terramechanics</i> , 2014, 51, 53-66.	1.4	18



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127	Impact of hydrologically driven hillslope erosion and landslide occurrence on soil organic carbon dynamics in tropical watersheds. <i>Water Resources Research</i> , 2016, 52, 8895-8919.	1.7	18
128	Evaluation of SHARP Passive Rainfall Retrievals over Snow-Covered Land Surfaces and Coastal Zones. <i>Journal of Hydrometeorology</i> , 2016, 17, 1013-1029.	0.7	17
129	Bias-corrected data sets of climate model outputs at uniform space-time resolution for land surface modelling over Amazonia. <i>International Journal of Climatology</i> , 2017, 37, 621-636.	1.5	17
130	Combined Assimilation of Satellite Precipitation and Soil Moisture: A Case Study Using TRMM and SMOS Data. <i>Monthly Weather Review</i> , 2017, 145, 4997-5014.	0.5	17
131	Numerical Simulation of Nonlinear Mesoscale Circulations Induced by the Thermal Heterogeneities of Land Surface. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 447-464.	0.6	17
132	A Brief History of Hydrology*. <i>Bulletin of the American Meteorological Society</i> , 1999, 80, 1151-1164.	1.7	16
133	Evaluation of the Quality of Precipitation Products: A Case Study Using WRF and IMERG Data over the Central United States. <i>Journal of Hydrometeorology</i> , 2018, 19, 2007-2020.	0.7	16
134	Comment on "On the fractal dimension of stream networks" by Paolo La Barbera and Renzo Rosso. <i>Water Resources Research</i> , 1990, 26, 2243-2244.	1.7	15
135	Sensitivity of channel profiles to precipitation properties in mountain ranges. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	15
136	Reproducibility of soil moisture ensembles when representing soil parameter uncertainty using a Latin Hypercube-based approach with correlation control. <i>Water Resources Research</i> , 2010, 46, .	1.7	15
137	Sampling of interrelated random fields: The rainfall-runoff case. <i>Water Resources Research</i> , 1979, 15, 1767-1780.	1.7	13
138	A view of maximum-likelihood estimation with large conceptual hydrologic models. <i>Applied Mathematics and Computation</i> , 1985, 17, 375-403.	1.4	13
139	Combined hydrologic sampling criteria for rainfall and streamflow. <i>Journal of Hydrology</i> , 1987, 95, 323-339.	2.3	13
140	A geomorphic perspective on terrain-modulated organization of vegetation productivity: analysis in two semiarid grassland ecosystems in Southwestern United States. <i>Ecohydrology</i> , 2014, 7, 242-257.	1.1	13
141	Integration of fuzzy logic and image analysis for the detection of gullies in the Calhoun Critical Zone Observatory using airborne LiDAR data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 126, 209-224.	4.9	13
142	Hydrologic sampling - A characterization in terms of rainfall and basin properties. <i>Journal of Hydrology</i> , 1988, 102, 113-135.	2.3	12
143	Self-affine scaling of fractal river courses and basin boundaries. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 209, 288-300.	1.2	12
144	Sensible heat flux estimated from one-level air temperature near the land surface. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	11

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145	Ecohydrological controls on grass and shrub above-ground net primary productivity in a seasonally dry climate. <i>Ecohydrology</i> , 2015, 8, 1572-1583.	1.1	11
146	Spatial variability in subsurface flow and transport: a review. <i>Reliability Engineering and System Safety</i> , 1993, 42, 293-316.	5.1	10
147	Maximum Entropy Distributions of Scale-Invariant Processes. <i>Physical Review Letters</i> , 2010, 105, 118701.	2.9	10
148	Real-time estimation of velocity and covariance structure of rainfall events using telemetered raingage data – A comparison of methods. <i>Journal of Hydrology</i> , 1979, 44, 97-123.	2.3	9
149	A physically based interpolation method for fluvially eroded topography. <i>Water Resources Research</i> , 2003, 39, .	1.7	9
150	Estimates of Net Atmospheric Moisture Flux Convergence over the Amazon Basin: A Comparison of Reanalysis Products. <i>Journal of Hydrometeorology</i> , 2008, 9, 1035-1047.	0.7	9
151	Forest Structure and Composition Are Critical to Hurricane Mortality. <i>Forests</i> , 2022, 13, 202.	0.9	7
152	Incorporation of Channel Losses in the Geomorphologic IUH. <i>Water Science and Technology Library</i> , 1986, , 217-243.	0.2	5
153	Analytical solutions for unsteady multidimensional infiltration in heterogeneous soils. <i>Water Resources Research</i> , 1991, 27, 1029-1034.	1.7	5
154	Effect of temperature on surface energy balance. <i>Water Resources Research</i> , 2001, 37, 3383-3386.	1.7	5
155	Regression-based regionalization for bias correction of temperature and precipitation. <i>International Journal of Climatology</i> , 2019, 39, 3298-3312.	1.5	5
156	The impact of hurricane disturbances on a tropical forest: implementing a palm plant functional type and hurricane disturbance module in ED2-HuDi V1.0. <i>Geoscientific Model Development</i> , 2022, 15, 5107-5126.	1.3	5
157	Structure in fluctuations of large-scale soil moisture climate due to external random forcing and internal feedbacks. <i>Stochastic Hydrology &amp; Hydraulics</i> , 1997, 11, 95-114.	0.5	4
158	Numerical Predictions of the Sensitivity of Grain Size and Channel Slope to an Increase in Precipitation. , 2008, , 367-394.		4
159	Error identification and decomposition in large stochastic rainfall-runoff models. <i>Automatica</i> , 1987, 23, 581-588.	3.0	3
160	A derived PDF for the initial soil moisture in a catchment. <i>Journal of Hydrology</i> , 1990, 113, 163-176.	2.3	3
161	Hydro-geomorphic perturbations on the soil-atmosphere CO <sub>2</sub> exchange: How (un)certain are our balances?. <i>Water Resources Research</i> , 2017, 53, 1664-1682.	1.7	3
162	Effect of Logarithmically Transformed IMERG Precipitation Observations in WRF 4D-Var Data Assimilation System. <i>Water (Switzerland)</i> , 2020, 12, 1918.	1.2	2

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163	Parsing Long-Term Tree Recruitment, Growth, and Mortality to Identify Hurricane Effects on Structural and Compositional Change in a Tropical Forest. <i>Forests</i> , 2022, 13, 796.	0.9	2
164	The effects of hydrometeorology on the GOES random data collection system. <i>Hydrological Sciences Journal</i> , 1985, 30, 1-23.	1.2	1
165	Simulation of water allocation and salt movement in the root zone. <i>Water Resources Management</i> , 1991, 5, 121-147.	1.9	1
166	Assessing hydrological extreme events with geospatial data and models. <i>Eos</i> , 2004, 85, 371.	0.1	1
167	An application of the maximum entropy production principle in modeling heat fluxes over land surfaces. , 2012, , .		1
168	Hydrogeomorphic behavior of contrasting tropical landscapes and critical zone response to changing climate. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 641-654.	1.2	1
169	MaxEnt and MaxEP in Modeling Fractal Topography and Atmospheric Turbulence. <i>Understanding Complex Systems</i> , 2014, , 309-322.	0.3	0