

Jeffrey D Niemann

List of Publications by Year in descending order

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49
papers

1,155
citations

394421

19
h-index

395702

33
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49
docs citations

49
times ranked

1285
citing authors

#	ARTICLE	IF	CITATIONS
1	A Spatial Analysis of Dispersion Mechanisms in the Hydrological Response Using a Spatially Distributed Travel Time Model. <i>Water Resources Research</i> , 2022, 58, .	4.2	0
2	Temporal Variations of NDVI and LAI and Interactions With Hydroclimatic Variables in a Large and Agro-ecologically Diverse Region. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	10
3	Using regional characteristics to improve uncalibrated estimation of rootzone soil moisture from optical/thermal remote-sensing. <i>Remote Sensing of Environment</i> , 2022, 273, 112982.	11.0	6
4	Wildfire Impacts on Snowpack Phenology in a Changing Climate Within the Western U.S.. <i>Water Resources Research</i> , 2022, 58, .	4.2	5
5	Modeling hydrologic processes associated with soil saturation and debris flow initiation during the September 2013 storm, Colorado Front Range. <i>Landslides</i> , 2021, 18, 1741-1759.	5.4	3
6	Identifying Runoff Production Mechanisms for Dam Safety Applications in the Colorado Front Range. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020, 25, .	1.9	3
7	Impacts of Channel Network Type on the Unit Hydrograph. <i>Water (Switzerland)</i> , 2020, 12, 669.	2.7	3
8	Stochastic analysis and probabilistic downscaling of soil moisture in small catchments. <i>Journal of Hydrology</i> , 2020, 585, 124711.	5.4	3
9	Enhanced hydrologic simulation may not improve downscaled soil moisture patterns without improved soil characterization. <i>Soil Science Society of America Journal</i> , 2020, 84, 672-689.	2.2	1
10	Impact of regional characteristics on the estimation of root-zone soil moisture from the evaporative index or evaporative fraction. <i>Agricultural Water Management</i> , 2020, 238, 106225.	5.6	10
11	A comparison of snowmelt-derived streamflow from temperature-index and modified-temperature-index snow models. <i>Hydrological Processes</i> , 2019, 33, 3030-3045.	2.6	12
12	On the Influence of Upstream Flow Contributions on the Basin Response Function for Hydrograph Prediction. <i>Water Resources Research</i> , 2019, 55, 4915-4935.	4.2	6
13	Planform geometry and relief characterization of drainage networks in high-relief environments: An analysis of Chilean Andean basins. <i>Geomorphology</i> , 2019, 341, 46-64.	2.6	17
14	Modeling input errors to improve uncertainty estimates for one-dimensional sediment transport models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 1817-1832.	4.0	4
15	Hydrologic Downscaling of Soil Moisture Using Global Data Sets without Site-Specific Calibration. <i>Journal of Hydrologic Engineering - ASCE</i> , 2018, 23, .	1.9	3
16	Impacts of precipitation and potential evapotranspiration patterns on downscaling soil moisture in regions with large topographic relief. <i>Water Resources Research</i> , 2017, 53, 1553-1574.	4.2	20
17	AutoRAPID: A Model for Prompt Streamflow Estimation and Flood Inundation Mapping over Regional to Continental Extents. <i>Journal of the American Water Resources Association</i> , 2017, 53, 280-299.	2.4	41
18	Downscaling soil moisture over regions that include multiple coarse-resolution grid cells. <i>Remote Sensing of Environment</i> , 2017, 199, 187-200.	11.0	9

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19	Effects of woody vegetation on shallow soil moisture at a semiarid montane catchment. <i>Ecohydrology</i> , 2015, 8, 935-947.	2.4	12
20	Evaluation of a surface energy balance method based on optical and thermal satellite imagery to estimate root-zone soil moisture. <i>Hydrological Processes</i> , 2015, 29, 5354-5368.	2.6	3
21	Evaluation of Parameter and Model Uncertainty in Simple Applications of a 1D Sediment Transport Model. <i>Journal of Hydraulic Engineering</i> , 2015, 141, .	1.5	13
22	A method to downscale soil moisture to fine resolutions using topographic, vegetation, and soil data. <i>Advances in Water Resources</i> , 2015, 76, 81-96.	3.8	57
23	Simulating the impacts of small convective storms and channel transmission losses on gully evolution. , 2014, , .		2
24	Assessing the impact of travel time formulations on the performance of spatially distributed travel time methods applied to hillslopes. <i>Journal of Hydrology</i> , 2014, 519, 1315-1327.	5.4	13
25	Evaluation of sampling techniques to characterize topographically-dependent variability for soil moisture downscaling. <i>Journal of Hydrology</i> , 2014, 516, 304-316.	5.4	29
26	Controls on topographic dependence and temporal instability in catchment-scale soil moisture patterns. <i>Water Resources Research</i> , 2013, 49, 1625-1642.	4.2	40
27	An evaluation of nonlinear methods for estimating catchment-scale soil moisture patterns based on topographic attributes. <i>Journal of Hydroinformatics</i> , 2012, 14, 800-814.	2.4	13
28	Evaluation of an empirical orthogonal function-based method to downscale soil moisture patterns based on topographical attributes. <i>Hydrological Processes</i> , 2012, 26, 2696-2709.	2.6	46
29	Under what conditions do parallel river networks occur?. <i>Geomorphology</i> , 2011, 132, 260-271.	2.6	19
30	Impact of Shallow Groundwater on Evapotranspiration Losses from Uncultivated Land in an Irrigated River Valley. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2011, 137, 501-512.	1.0	9
31	Method for Assessing Impacts of Parameter Uncertainty in Sediment Transport Modeling Applications. <i>Journal of Hydraulic Engineering</i> , 2011, 137, 623-636.	1.5	20
32	Effects of gullies on space-time patterns of soil moisture in a semiarid grassland. <i>Journal of Hydrology</i> , 2010, 389, 289-300.	5.4	33
33	Reconstruction of hillslope and valley paleotopography by application of a geomorphic model. <i>Computers and Geosciences</i> , 2009, 35, 1776-1784.	4.2	6
34	A morpho-climatic instantaneous unit hydrograph model for urban catchments based on the kinematic wave approximation. <i>Journal of Hydrology</i> , 2009, 377, 317-334.	5.4	41
35	How do streamflow generation mechanisms affect watershed hypsometry?. <i>Earth Surface Processes and Landforms</i> , 2008, 33, 751-772.	2.5	15
36	Evaluating the parameter identifiability and structural validity of a probability-distributed model for soil moisture. <i>Journal of Hydrology</i> , 2008, 353, 93-108.	5.4	26

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37	Identification and characterization of dendritic, parallel, pinnate, rectangular, and trellis networks based on deviations from planform self-similarity. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	53
38	Analysis and estimation of soil moisture at the catchment scale using EOFs. <i>Journal of Hydrology</i> , 2007, 334, 388-404.	5.4	98
39	Spatial patterns from EOF analysis of soil moisture at a large scale and their dependence on soil, land-use, and topographic properties. <i>Advances in Water Resources</i> , 2007, 30, 366-381.	3.8	87
40	An evaluation of the geomorphically effective event for fluvial processes over long periods. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	25
41	Modelling the potential impacts of groundwater hydrology on long-term drainage basin evolution. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 1802-1823.	2.5	50
42	A comparison of experimental and natural drainage basin morphology across a range of scales. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	14
43	Sensitivity of regional hydrology to climate changes, with application to the Illinois River basin. <i>Water Resources Research</i> , 2005, 41, .	4.2	35
44	Prediction of regional water balance components based on climate, soil, and vegetation parameters, with application to the Illinois River Basin. <i>Water Resources Research</i> , 2004, 40, .	4.2	12
45	A physically based interpolation method for fluvially eroded topography. <i>Water Resources Research</i> , 2003, 39, .	4.2	9
46	Impacts of surface elevation on the growth and scaling properties of simulated river networks. <i>Geomorphology</i> , 2001, 40, 37-55.	2.6	35
47	A quantitative evaluation of Playfair's law and its use in testing long-term stream erosion models. <i>Earth Surface Processes and Landforms</i> , 2001, 26, 1317-1332.	2.5	127
48	Self-similarity and multifractality of fluvial erosion topography: 1. Mathematical conditions and physical origin. <i>Water Resources Research</i> , 2000, 36, 1923-1936.	4.2	33
49	Self-similarity and multifractality of fluvial erosion topography: 2. Scaling properties. <i>Water Resources Research</i> , 2000, 36, 1937-1951.	4.2	24