Timothy E Link

List of Publications by Year
in descending order

64 papers	3,304 citations	218677 26 h-index	149698 56 g-index
66 all docs	66 docs citations	66 times ranked	4122 citing authors

#	Article	IF	Citations
1	Twenty-three unsolved problems in hydrology (UPH) â€“ a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	2.6	474
2	Development of an in vitro screening test to evaluate the in vivo bioaccessibility of ingested mine-waste lead. Environmental Science & Technology, 1993, 27, 2870-2877.	10.0	308
3	Extent of the rainâ€snow transition zone in the western U.S. under historic and projected climate. Geophysical Research Letters, 2014, 41, 4560-4568.	4.0	217
4	The dynamics of rainfall interception by a seasonal temperate rainforest. Agricultural and Forest Meteorology, 2004, 124, 171-191.	4.8	192
5	Rain or snow: hydrologic processes, observations, prediction, and research needs. Hydrology and Earth System Sciences, 2017, 21, 1-22.	4.9	192
6	The importance of canopy structure in controlling the interception loss of rainfall: Examples from a young and an old-growth Douglas-fir forest. Agricultural and Forest Meteorology, 2005, 130, 113-129.	4.8	161
7	An inexpensive, fast, and reliable method for vacuum extraction of soil and plant water for stable isotope analyses by mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 3041-3048.	1.5	134
8	A Sensitivity Study of Daytime Net Radiation during Snowmelt to Forest Canopy and Atmospheric Conditions. Journal of Hydrometeorology, 2004, 5, 774-784.	1.9	132
9	Subgrid variability of snow water equivalent at operational snow stations in the western USA. Hydrological Processes, 2013, 27, 2383-2400.	2.6	99
10	Effects of needleleaf forest cover on radiation and snowmelt dynamics in the Canadian Rocky Mountains. Canadian Journal of Forest Research, 2011, 41, 608-620.	1.7	73
11	Estimating surface sublimation losses from snowpacks in a mountain catchment using eddy covariance and turbulent transfer calculations. Hydrological Processes, 2012, 26, 3699-3711.	2.6	64
12	A deterministic method to characterize canopy radiative transfer properties. Hydrological Processes, 2004, 18, 3583-3594.	2.6	63
13	Modeling increases in snowmelt yield and desynchronization resulting from forest gapâ€thinning treatments in a northern mountain headwater basin. Water Resources Research, 2013, 49, 936-949.	4.2	62
14	Variability in shortwave irradiance caused by forest gaps: Measurements, modelling, and implications for snow energetics. Agricultural and Forest Meteorology, 2015, 207, 69-82.	4.8	62
15	Snow disappearance timing is dominated by forest effects on snow accumulation in warm winter climates of the Pacific Northwest, United States. Hydrological Processes, 2017, 31, 1846-1862.	2.6	62
16	Stable isotopes applied as water tracers in column and field studies. Organic Geochemistry, 2010, 41, 31-40.	1.8	61
17	Quantification of incoming allâ€wave radiation in discontinuous forest canopies with application to snowmelt prediction. Hydrological Processes, 2011, 25, 3322-3331.	2.6	59
18	Projected Changes in Interannual Variability of Peak Snowpack Amount and Timing in the Western United States. Geophysical Research Letters, 2019, 46, 8882-8892.	4.0	53

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19	The ecosystem services and biodiversity of novel ecosystems: A literature review. Global Ecology and Conservation, 2018, 13, e00362.	2.1	52
20	Validation and sensitivity test of the distributed hydrology soil-vegetation model (DHSVM) in a forested mountain watershed. Hydrological Processes, 2014, 28, 6196-6210.	2.6	49
21	A Comparison of Two Open Source LiDAR Surface Classification Algorithms. Remote Sensing, 2011, 3, 638-649.	4.0	48
22	Quantifying spatial distribution of snow depth errors from LiDAR using Random Forest. Remote Sensing of Environment, 2014, 141, 105-115.	11.0	45
23	Simulation of Water and Energy Fluxes in an Old-Growth Seasonal Temperate Rain Forest Using the Simultaneous Heat and Water (SHAW) Model. Journal of Hydrometeorology, 2004, 5, 443-457.	1.9	34
24	EVALUATION OF RUNOFF PREDICTION FROM WEPP-BASED EROSION MODELS FOR HARVESTED AND BURNED FOREST WATERSHEDS. Transactions of the American Society of Agricultural Engineers, 2005, 48, 1091-1100.	0.9	34
25	Linked spatial variability of throughfall amount and intensity during rainfall in a coniferous forest. Agricultural and Forest Meteorology, 2018, 248, 15-21.	4.8	33
26	Throughfall heterogeneity in tropical forested landscapes as a focal mechanism for deep percolation. Journal of Hydrology, 2014, 519, 2180-2188.	5.4	32
27	Long-term hydrological response to forest harvest during seasonal low flow: Potential implications for current forest practices. Science of the Total Environment, 2020, 730, 138926.	8.0	32
28	On the role of vegetation density on net snow cover radiation at the forest floor. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8359-8374.	3.3	30
29	Five ways to support interdisciplinary work before tenure. Journal of Environmental Studies and Sciences, 2016, 6, 260-267.	2.0	27
30	Constraining 3â€‹<scp>PG</scp> with a new Î´¹³<scp>C</scp> submodel: a test using the Î´¹³<scp>C</scp> of tree rings. Plant, Cell and Environment, 2014, 37, 82-100.	5.7	25
31	Sensitivity of model parameterizations for simulated latent heat flux at the snow surface for complex mountain sites. Hydrological Processes, 2014, 28, 868-881.	2.6	24
32	Evaluating hydrologic effects of spatial and temporal patterns of forest canopy change using numerical modelling. Hydrological Processes, 2016, 30, 217-231.	2.6	24
33	Potential trends in snowmeltâ€‹generated peak streamflows in a warming climate. Geophysical Research Letters, 2016, 43, 5052-5059.	4.0	24
34	Modeling forest management effects on water and sediment yield from nested, paired watersheds in the interior Pacific Northwest, USA using WEPP. Science of the Total Environment, 2020, 701, 134877.	8.0	24
35	Sensitivity of the snowcover energetics in a mountain basin to variations in climate. Hydrological Processes, 2011, 25, 3312-3321.	2.6	23
36	Effects of more extreme precipitation regimes on maximum seasonal snow water equivalent. Geophysical Research Letters, 2012, 39, .	4.0	23

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37	Warming Alters Hydrologic Heterogeneity: Simulated Climate Sensitivity of Hydrologyâ€Based Microrefugia in the Snowâ€toâ€Rain Transition Zone. Water Resources Research, 2019, 55, 2122-2141.	4.2	23
38	Eleven years of mountain weather, snow, soil moisture and streamflow data from the rainâ€“snow transition zone â€“ the Johnston Draw catchment, Reynolds Creek Experimental Watershed and Critical Zone Observatory, USA. Earth System Science Data, 2018, 10, 1207-1216.	9.9	23
39	Modeling temperature and humidity profiles within forest canopies. Agricultural and Forest Meteorology, 2015, 213, 251-262.	4.8	22
40	Soil Lead Mineralogy by Microprobe: An Interlaboratory Comparison. Environmental Science & Technology, 1994, 28, 985-988.	10.0	18
41	Forest Canopy Reduction and Snowpack Dynamics in a Northern Idaho Watershed of the Continental-Maritime Region, United States. Forest Science, 2015, 61, 882-894.	1.0	17
42	Indicators of Climate Change in Idaho: An Assessment Framework for Coupling Biophysical Change and Social Perceptiona. Weather, Climate, and Society, 2015, 7, 238-254.	1.1	17
43	Forest productivity varies with soil moisture more than temperature in a small montane watershed. Agricultural and Forest Meteorology, 2018, 259, 211-221.	4.8	15
44	Surface water input from snowmelt and rain throughfall in western juniper: potential impacts of climate change and shifts in semiâ€arid vegetation. Hydrological Processes, 2016, 30, 3046-3060.	2.6	12
45	Modeling of terraceteâ€hillslope soil moisture as a function of aspect, slope and vegetation in a semiâ€arid environment. Earth Surface Processes and Landforms, 2017, 42, 1560-1572.	2.5	12
46	Spatiotemporal soil and saprolite moisture dynamics across a semi-arid woody plant gradient. Journal of Hydrology, 2017, 544, 21-35.	5.4	9
47	Simulating the dependence of aspen (Populus tremuloides) on redistributed snow in a semiâ€arid watershed. Ecosphere, 2018, 9, e02068.	2.2	9
48	Higher Snowfall Intensity is Associated with Reduced Impacts of Warming Upon Winter Snow Ablation. Geophysical Research Letters, 2020, 47, e2019GL086409.	4.0	9
49	Quantifying shortwave and longwave radiation inputs to headwater streams under differing canopy structures. Forest Ecology and Management, 2018, 407, 116-124.	3.2	8
50	Ecohydrological modelling in a deciduous boreal forest: Model evaluation for application in nonâ€stationary climates. Hydrological Processes, 2021, 35, e14251.	2.6	8
51	Importance of Parameter and Climate Data Uncertainty for Future Changes in Boreal Hydrology. Water Resources Research, 2021, 57, e2021WR029911.	4.2	8
52	Using Science to Bridge Management and Policy: Terracette Hydrologic Function and Water Quality Best Management Practices in Idaho. Rangelands, 2015, 37, 191-199.	1.9	6
53	Simulated water budget of a small forested watershed in the continental/maritime hydroclimatic region of the United States. Hydrological Processes, 2016, 30, 2000-2013.	2.6	5
54	Long term persistence of aspen in snowdrift-dependent ecosystems. Forest Ecology and Management, 2020, 462, 118005.	3.2	5

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55	Vadose Zone Processes: A Compendium for Teaching Interdisciplinary Modeling. Journal of Contemporary Water Research and Education, 2013, 152, 22-31.	0.7	4
56	Toward a Novel Laser-Based Approach for Estimating Snow Interception. Remote Sensing, 2020, 12, 1146.	4.0	4
57	Strategies to Improve WEPP Snowmelt Simulations in Mountainous Terrain. Transactions of the ASABE, 2011, 54, 1333-1345.	1.1	3
58	Interdisciplinary Modeling, Research, and Education. Journal of Contemporary Water Research and Education, 2013, 152, 1-3.	0.7	3
59	Climate moderates potential shifts in streamflow from changes in pinyonâ€juniper woodland cover across the western <scp>U.S.</scp>. Hydrological Processes, 2017, 31, 3489-3503.	2.6	3
60	Important Airborne Lidar Metrics of Canopy Structure for Estimating Snow Interception. Remote Sensing, 2021, 13, 4188.	4.0	3
61	Discussion¹â€â€œStream Temperature Relationships to Forest Harvest in Western Washingtonâ€•by Michael M. Pollock, Timothy J. Beechie, Martin Liermann, and Richard E. Bigley². Journal of the American Water Resources Association, 2010, 46, 838-842.	2.4	2
62	SnowClim v1.0: high-resolution snow model and data for the western United States. Geoscientific Model Development, 2022, 15, 5045-5071.	3.6	2
63	Stabilization of Lead in Acidic Mine Filtercake by Addition of Alkaline Tailings. Journal of Environmental Quality, 1996, 25, 1077-1082.	2.0	1
64	Lessons Learned From an Interâ€Institutional Graduate Course on Interdisciplinary Modeling for Waterâ€Related Issues and Changing Climate. Journal of Contemporary Water Research and Education, 2013, 152, 4-13.	0.7	1