

Sally E Thompson

List of Publications by Year in descending order

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96
papers

3,675
citations

93044

35
h-index

121293

58
g-index

102
all docs

102
docs citations

102
times ranked

6018
citing authors

#	ARTICLE	IF	CITATIONS
1	Introducing Pour Points: Characteristics and Hydrological Significance of a Rainfall-Concentrating Mechanism in a Water-Limited Woodland Ecosystem. <i>Water Resources Research</i> , 2024, 60, .	4.6	3
2	Different roads, same destination: The shared future of plant ecophysiology and ecohydrology. <i>Plant, Cell and Environment</i> , 2024, 47, 3447-3465.	6.4	3
3	Crusts and seals: Structural. , 2023, , 57-68.		1
4	Organization of the soil profile controls the risks of runoff in the humid Ethiopian Highlands. <i>Journal of Hydrology</i> , 2023, 617, 129031.	5.9	5
5	Exploring within-plant hydraulic trait variation: A test of the vulnerability segmentation hypothesis. <i>Plant, Cell and Environment</i> , 2023, 46, 2726-2746.	6.4	8
6	Hydrologic Connectivity and Patch-to-Hillslope Scale Relations in Dryland Ecosystems. <i>Geophysical Research Letters</i> , 2023, 50, .	4.2	3
7	Quantifying the Uncertainty Created by Non-transferable Model Calibrations Across Climate and Land Cover Scenarios: A Case Study With SWMM. <i>Water Resources Research</i> , 2022, 58, .	4.6	10
8	Bridge to the future: Important lessons from 20 years of ecosystem observations made by the OzFlux network. <i>Global Change Biology</i> , 2022, 28, 3489-3514.	11.2	20
9	Intra-specific Variability in Plant Hydraulic Parameters Inferred From Model Inversion of Sap Flux Data. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	6
10	Arc Hydro Hillslope and Critical Duration: New tools for hillslope-scale runoff analysis. <i>Environmental Modelling and Software</i> , 2022, 153, 105408.	4.5	1
11	Recalibration of existing pedotransfer functions to estimate soil bulk density at a regional scale. <i>European Journal of Soil Science</i> , 2022, 73, .	3.8	2
12	Hydrological benefits of restoring wildfire regimes in the Sierra Nevada persist in a warming climate. <i>Journal of Hydrology</i> , 2021, 593, 125808.	5.9	15
13	Interannual variability of ecosystem iso/anisohdry is regulated by environmental dryness. <i>New Phytologist</i> , 2021, 229, 2562-2575.	8.2	29
14	Detecting the short term impact of soil and water conservation practices using stage as a proxy for discharge? A case study from the Tana sub-basin, Ethiopia. <i>Land Degradation and Development</i> , 2021, 32, 867-880.	3.9	5
15	Sensitivity of dryland vegetation patterns to storm characteristics. <i>Ecohydrology</i> , 2021, 14, .	2.3	6
16	Saturation excess overland flow accelerates the spread of a generalist soil-borne pathogen. <i>Journal of Hydrology</i> , 2021, 593, 125821.	5.9	5
17	Quantifying Shallow Overland Flow Patterns Under Laboratory Simulations Using Thermal and LiDAR Imagery. <i>Water Resources Research</i> , 2021, 57, .	4.6	9
18	Undesirable outcomes in seasonally dry forests. <i>Frontiers in Ecology and the Environment</i> , 2021, 19, 87-88.	3.6	1

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19	A MODIS-based scalable remote sensing method to estimate sowing and harvest dates of soybean crops in Mato Grosso, Brazil. <i>Heliyon</i> , 2021, 7, e07436.	3.6	20
20	Fire, water, and biodiversity in the Sierra Nevada: a possible triple win. <i>Environmental Research Communications</i> , 2021, 3, 081004.	2.8	36
21	Soil moisture influences on Sierra Nevada dead fuel moisture content and fire risks. <i>Forest Ecology and Management</i> , 2021, 496, 119379.	3.5	24
22	Virtual Special Issue "Advances in forest hydrology in the light of land use change and disturbances". <i>Journal of Hydrology</i> , 2021, 601, 126788.	5.9	2
23	Rational Method Time of Concentration Can Underestimate Peak Discharge for Hillslopes. <i>Journal of Hydraulic Engineering</i> , 2021, 147, .	2.4	1
24	Analytical solutions to runoff on hillslopes with curvature: numerical and laboratory verification. <i>Hydrological Processes</i> , 2020, 34, 4640-4659.	2.6	5
25	<sc>Freeze-thaw processes degrade <sc>post-fire water repellency in wet soils. <i>Hydrological Processes</i> , 2020, 34, 5229-5241.	2.6	6
26	Resistance Formulations in Shallow Overland Flow Along a Hillslope Covered With Patchy Vegetation. <i>Water Resources Research</i> , 2020, 56, .	4.6	17
27	Tributary confluences are dynamic thermal refuges for a juvenile salmonid in a warming river network. <i>River Research and Applications</i> , 2020, 36, 1076-1086.	1.8	21
28	Fire and climate change: conserving seasonally dry forests is still possible. <i>Frontiers in Ecology and the Environment</i> , 2020, 18, 354-360.	3.6	117
29	Forest Vegetation Change and Its Impacts on Soil Water Following 47 Years of Managed Wildfire. <i>Ecosystems</i> , 2020, 23, 1547-1565.	2.5	21
30	Weather underground: Subsurface hydrologic processes mediate tree vulnerability to extreme climatic drought. <i>Global Change Biology</i> , 2020, 26, 3091-3107.	11.2	39
31	A process-based approach to attribution of historical streamflow decline in a data-scarce and human-dominated watershed. <i>Hydrological Processes</i> , 2020, 34, 1981-1995.	2.6	7
32	Plants as sensors: vegetation response to rainfall predicts root-zone water storage capacity in Mediterranean-type climates. <i>Environmental Research Letters</i> , 2020, 15, 104074.	5.0	22
33	Emulation of the Saint Venant Equations Enables Rapid and Accurate Predictions of Infiltration and Overland Flow Velocity on Spatially Heterogeneous Surfaces. <i>Water Resources Research</i> , 2019, 55, 7108-7129.	4.6	24
34	Forest loss in Brazil increases maximum temperatures within 50 km. <i>Environmental Research Letters</i> , 2019, 14, 084047.	5.0	42
35	Restoring a Natural Fire Regime Alters the Water Balance of a Sierra Nevada Catchment. <i>Water Resources Research</i> , 2019, 55, 5751-5769.	4.6	44
36	No local adaptation in leaf or stem xylem vulnerability to embolism, but consistent vulnerability segmentation in a North American oak. <i>New Phytologist</i> , 2019, 223, 1296-1306.	8.2	54

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37	Evaluating definitions of salmonid thermal refugia using in situ measurements in the Eel River, Northern California. <i>Ecohydrology</i> , 2019, 12, .	2.3	8
38	A Value-Based Model Selection Approach for Environmental Random Variables. <i>Water Resources Research</i> , 2019, 55, 270-283.	4.6	5
39	Quantifying Asynchronicity of Precipitation and Potential Evapotranspiration in Mediterranean Climates. <i>Geophysical Research Letters</i> , 2019, 46, 14692-14701.	4.2	35
40	Beyond isohydricity: The role of environmental variability in determining plant drought responses. <i>Plant, Cell and Environment</i> , 2019, 42, 1104-1111.	6.4	50
41	Estimating the price (in)elasticity of off-grid electricity demand. <i>Development Engineering</i> , 2018, 3, 12-22.	3.2	21
42	Hydrologic responses to restored wildfire regimes revealed by soil moisture-vegetation relationships. <i>Advances in Water Resources</i> , 2018, 112, 124-146.	4.1	26
43	Land Use Change Increases Streamflow Across the Arc of Deforestation in Brazil. <i>Geophysical Research Letters</i> , 2018, 45, 3520-3530.	4.2	77
44	Drag coefficient estimation using flume experiments in shallow non-uniform water flow within emergent vegetation during rainfall. <i>Ecological Indicators</i> , 2018, 92, 367-378.	6.9	29
45	Measurement and simulation of water-use by canola and camelina under cool-season conditions in California. <i>Agricultural Water Management</i> , 2018, 196, 15-23.	6.2	19
46	Reconstructing Early Hydrologic Change in the California Delta and its Watersheds. <i>Water Resources Research</i> , 2018, 54, 7767-7790.	4.6	5
47	The ecohydrological context of drought and classification of plant responses. <i>Ecology Letters</i> , 2018, 21, 1723-1736.	7.9	40
48	Low Vulnerability to Xylem Embolism in Leaves and Stems of North American Oaks. <i>Plant Physiology</i> , 2018, 177, 1066-1077.	5.4	117
49	Quantification of the seasonal hillslope water storage that does not drive streamflow. <i>Hydrological Processes</i> , 2018, 32, 1978-1992.	2.6	70
50	Spatial characterization of long-term hydrological change in the Arkavathy watershed adjacent to Bangalore, India. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 595-610.	4.8	10
51	Dew deposition suppresses transpiration and carbon uptake in leaves. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 305-316.	5.3	56
52	Reconciling seasonal hydraulic risk and plant water use through probabilistic soil-plant dynamics. <i>Global Change Biology</i> , 2017, 23, 3758-3769.	11.2	41
53	Hydrologic refugia, plants, and climate change. <i>Global Change Biology</i> , 2017, 23, 2941-2961.	11.2	274
54	A Stochastic Water Balance Framework for Lowland Watersheds. <i>Water Resources Research</i> , 2017, 53, 9564-9579.	4.6	12

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55	How much does dry-season fog matter? Quantifying fog contributions to water balance in a coastal California watershed. <i>Hydrological Processes</i> , 2017, 31, 3948-3961.	2.6	20
56	How competitive is drought deciduousness in tropical forests? A combined eco-hydrological and eco-evolutionary approach. <i>Environmental Research Letters</i> , 2017, 12, 065006.	5.0	34
57	Addressing rainfall data selection uncertainty using connections between rainfall and streamflow. <i>Scientific Reports</i> , 2017, 7, .	3.7	15
58	Vegetation change during 40 years of repeated managed wildfires in the Sierra Nevada, California. <i>Forest Ecology and Management</i> , 2017, 402, 241-252.	3.5	49
59	Stochastic modeling of interannual variation of hydrologic variables. <i>Geophysical Research Letters</i> , 2017, 44, 7285-7294.	4.2	8
60	Robot-Assisted Measurement for Hydrologic Understanding in Data Sparse Regions. <i>Water (Switzerland)</i> , 2017, 9, 494.	2.8	13
61	Event-scale power law recession analysis: quantifying methodological uncertainty. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 65-81.	4.8	55
62	Spiral and Rotor Patterns Produced by Fairy Ring Fungi. <i>PLoS ONE</i> , 2016, 11, e0149254.	2.5	11
63	A minimal probabilistic model for soil moisture in seasonally dry climates. <i>Water Resources Research</i> , 2016, 52, 1507-1517.	4.6	19
64	Bridging the information gap: A webGIS tool for rural electrification in data-scarce regions. <i>Applied Energy</i> , 2016, 171, 277-286.	11.3	30
65	Dry season streamflow persistence in seasonal climates. <i>Water Resources Research</i> , 2016, 52, 90-107.	4.6	19
66	Managed Wildfire Effects on Forest Resilience and Water in the Sierra Nevada. <i>Ecosystems</i> , 2016, 20, 717-732.	2.5	88
67	Steady nonuniform shallow flow within emergent vegetation. <i>Water Resources Research</i> , 2015, 51, 10047-10064.	4.6	50
68	a, b careful: The challenge of scale invariance for comparative analyses in power law models of the streamflow recession. <i>Geophysical Research Letters</i> , 2015, 42, 9285-9293.	4.2	46
69	Obtaining the Thermal Structure of Lakes from the Air. <i>Water (Switzerland)</i> , 2015, 7, 6467-6482.	2.8	21
70	High Time for Conservation: Adding the Environment to the Debate on Marijuana Liberalization. <i>BioScience</i> , 2015, 65, 822-829.	5.2	61
71	Climatic, ecophysiological, and phenological controls on plant ecohydrological strategies in seasonally dry ecosystems. <i>Ecohydrology</i> , 2015, 8, 660-681.	2.3	85
72	Rainfall and temperatures changes have confounding impacts on <i>Phytophthora cinnamomi</i> occurrence risk in the southwestern USA under climate change scenarios. <i>Global Change Biology</i> , 2014, 20, 1299-1312.	11.2	49

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73	Analytical model for flow duration curves in seasonally dry climates. <i>Water Resources Research</i> , 2014, 50, 5510-5531.	4.6	65
74	Secondary dispersal driven by overland flow in drylands: Review and mechanistic model development. <i>Movement Ecology</i> , 2014, 2, .	3.1	22
75	Spatially variable water table recharge and the hillslope hydrologic response: Analytical solutions to the linearized hillslope Boussinesq equation. <i>Water Resources Research</i> , 2014, 50, 8515-8530.	4.6	18
76	Linking Plant Disease Risk and Precipitation Drivers: A Dynamical Systems Framework. <i>American Naturalist</i> , 2013, 181, E1-E16.	2.6	25
77	Bias adjustment of satellite rainfall data through stochastic modeling: Methods development and application to Nepal. <i>Advances in Water Resources</i> , 2013, 60, 121-134.	4.1	64
78	Local properties of patterned vegetation: quantifying endogenous and exogenous effects. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120359.	2.8	30
79	Implications of nonrandom seed abscission and global stilling for migration of wind-dispersed plant species. <i>Global Change Biology</i> , 2013, 19, 1720-1735.	11.2	25
80	Hydraulic determinism as a constraint on the evolution of organisms and ecosystems. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2012, 50, 547-557.	1.8	5
81	Multiple mechanisms generate Lorentzian and $1/f^{\pm}$ power spectra in daily stream-flow time series. <i>Advances in Water Resources</i> , 2012, 37, 94-103.	4.1	20
82	A phenomenological model for the flow resistance over submerged vegetation. <i>Water Resources Research</i> , 2012, 48, .	4.6	41
83	Spatial scale dependence of ecohydrologically mediated water balance partitioning: A synthesis framework for catchment ecohydrology. <i>Water Resources Research</i> , 2011, 47, .	4.6	133
84	Spatiotemporal averaging of in-stream solute removal dynamics. <i>Water Resources Research</i> , 2011, 47, .	4.6	47
85	Hydrologic and biogeochemical functioning of intensively managed catchments: A synthesis of top-down analyses. <i>Water Resources Research</i> , 2011, 47, .	4.6	150
86	Mechanistic models of seed dispersal by wind. <i>Theoretical Ecology</i> , 2011, 4, 113-132.	1.0	155
87	Unsteady overland flow on flat surfaces induced by spatial permeability contrasts. <i>Advances in Water Resources</i> , 2011, 34, 1049-1058.	4.1	41
88	Design for resilience in coupled industrial-ecological systems: Biofuels industry as a case study. , 2011, , 1-1.		2
89	The effects of plant pathogens on tree recruitment in the Western Amazon under a projected future climate: a dynamical systems analysis. <i>Journal of Ecology</i> , 2010, 98, 1434-1446.	4.6	31
90	A Porous Convection Model for Grass Patterns. <i>American Naturalist</i> , 2010, 175, E10-E15.	2.6	10

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91	Role of microtopography in rainfall-runoff partitioning: An analysis using idealized geometry. <i>Water Resources Research</i> , 2010, 46, .	4.6	90
92	Nutrient loads exported from managed catchments reveal emergent biogeochemical stationarity. <i>Geophysical Research Letters</i> , 2010, 37, .	4.2	335
93	Spatial organization of vegetation arising from non-local excitation with local inhibition in tropical rainforests. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1061-1067.	2.8	10
94	Secondary seed dispersal and its role in landscape organization. <i>Geophysical Research Letters</i> , 2009, 36, .	4.2	35
95	Role of biomass spread in vegetation pattern formation within arid ecosystems. <i>Water Resources Research</i> , 2008, 44, .	4.6	51
96	Plant Propagation Fronts and Wind Dispersal: An Analytical Model to Upscale from Seconds to Decades Using Superstatistics. <i>American Naturalist</i> , 2008, 171, 468-479.	2.6	41