

John T Van Stan

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,148
citations

218677

26
h-index

276875

41
g-index

109
all docs

109
docs citations

109
times ranked

1430
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in soil functionality eight years after fire and post-fire hillslope stabilisation in Mediterranean forest ecosystems. <i>Geoderma</i> , 2022, 409, 115603.	5.1	10
2	Global rainfall partitioning by dryland vegetation: Developing general empirical models. <i>Journal of Hydrology</i> , 2022, 607, 127540.	5.4	11
3	Under the canopy: disentangling the role of stemflow in shaping spatial patterns of soil microbial community structure underneath trees. <i>Environmental Microbiology</i> , 2022, 24, 4001-4012.	3.8	6
4	Challenges and Capabilities in Estimating Snow Mass Intercepted in Conifer Canopies With Tree Sway Monitoring. <i>Water Resources Research</i> , 2022, 58, .	4.2	6
5	Carbonate dissolution cones require more than stemflow funneling from plants. <i>Geomorphology</i> , 2022, 407, 108215.	2.6	0
6	Rain harvesting by plants. <i>Current Biology</i> , 2022, 32, R609-R611.	3.9	1
7	Post-fire restoration with contour-felled log debris increases early recruitment of Spanish black pine (<i>Pinus nigra</i> Arn. ssp. <i>salzmannii</i>) in Mediterranean forests. <i>Restoration Ecology</i> , 2021, 29, e13338.	2.9	8
8	Effects of stand composition and soil properties on water repellency and hydraulic conductivity in Mediterranean forests. <i>Ecohydrology</i> , 2021, 14, e2276.	2.4	24
9	Hypothesis and Theory: Fungal Spores in Stemflow and Potential Bark Sources. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	2.3	13
10	Response: Commentary: What We Know About Stemflow's Infiltration Area. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	2.3	4
11	Bark-Water Interactions Across Ecosystem States and Fluxes. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	2.3	14
12	Living particulate fluxes in throughfall and stemflow during a pollen event. <i>Biogeochemistry</i> , 2021, 153, 323-330.	3.5	7
13	Throughfall and stemflow are major hydrologic highways for particulate traffic through tree canopies. <i>Frontiers in Ecology and the Environment</i> , 2021, 19, 404-410.	4.0	20
14	Stemflow variability across tree stem and canopy traits in the Brazilian Cerrado. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108551.	4.8	10
15	Simultaneous estimation of <i>Pinus nigra</i> Arn. ssp. <i>salzmannii</i> natural regeneration emergence and survival through lifetime analysis. <i>Forest Ecology and Management</i> , 2021, 499, 119613.	3.2	0
16	Vertical Variability in Bark Hydrology for Two Coniferous Tree Species. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	2.3	4
17	Rainfall partitioning and associated chemical alteration in three subtropical urban tree species. <i>Journal of Hydrology</i> , 2021, 603, 127109.	5.4	9
18	Editorial: Bark-Water Interactions. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	2.3	0

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19	Rainfall interception and redistribution by maize farmland in central Iran. <i>Journal of Hydrology: Regional Studies</i> , 2020, 27, 100656.	2.4	20
20	Grand theft hydro? Stemflow interception and redirection by neighbouring <i>Tradescantia ohiensis</i> Raf. (spiderwort) plants. <i>Ecohydrology</i> , 2020, 13, e2239.	2.4	4
21	Partitioning of Rainfall and Sprinkler-Irrigation by Crop Canopies: A Global Review and Evaluation of Available Research. <i>Hydrology</i> , 2020, 7, 76.	3.0	21
22	Impacts of urban landscapes on students' academic performance. <i>Landscape and Urban Planning</i> , 2020, 201, 103840.	7.5	11
23	What We Know About Stemflow's Infiltration Area. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	2.3	25
24	Precipitation Partitioning Hydrologic Highways Between Microbial Communities of the Plant Microbiome?. , 2020, , 229-252.		9
25	Key Questions on the Evaporation and Transport of Intercepted Precipitation. , 2020, , 269-280.		13
26	Storage and Routing of Precipitation Through Canopies. , 2020, , 17-34.		31
27	A Global Synthesis of Throughfall and Stemflow Hydrometeorology. , 2020, , 49-70.		39
28	Things Seen and Unseen in Throughfall and Stemflow. , 2020, , 71-88.		20
29	Spatial Variability and Temporal Stability of Local Net Precipitation Patterns. , 2020, , 89-104.		15
30	Throughfall and Stemflow: The Crowning Headwaters of the Aquatic Carbon Cycle. , 2020, , 121-132.		8
31	Rainfall interception and redistribution by a common North American understory and pasture forb, <i>Eupatorium capillifolium</i> (Lam. dogfennel). <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4587-4599.	4.9	22
32	Wrack and ruin: Legacy hydrologic effects of hurricane-deposited wrack on hardwood-hammock coastal islands. <i>Environmental Research Communications</i> , 2020, 2, 061001.	2.3	3
33	Valuing Urban Tree Impacts on Precipitation Partitioning. , 2020, , 253-268.		11
34	Arboreal Epiphytes in the Soil-Atmosphere Interface: How Often Are the Biggest "Buckets" in the Canopy Empty?. <i>Geosciences (Switzerland)</i> , 2019, 9, 342.	2.2	19
35	Early European Observations of Precipitation Partitioning by Vegetation: A Synthesis and Evaluation of 19th Century Findings. <i>Geosciences (Switzerland)</i> , 2019, 9, 423.	2.2	13
36	Dissolved black carbon in throughfall and stemflow in a fire-managed longleaf pine woodland. <i>Biogeochemistry</i> , 2019, 146, 191-207.	3.5	17

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37	Importance of transitional leaf states in canopy rainfall partitioning dynamics. <i>European Journal of Forest Research</i> , 2018, 137, 121-130.	2.5	34
38	Estimation of Throughfall and Stemflow Bacterial Flux in a Subtropical Oak-Cedar Forest. <i>Geophysical Research Letters</i> , 2018, 45, 1410-1418.	4.0	38
39	Tree-DOM: Dissolved organic matter in throughfall and stemflow. <i>Limnology and Oceanography Letters</i> , 2018, 3, 199-214.	3.9	56
40	Management of pomegranate (<i>Punica granatum</i>) orchards alters the supply and pathway of rain water reaching soils in an arid agricultural landscape. <i>Agriculture, Ecosystems and Environment</i> , 2018, 259, 77-85.	5.3	23
41	Bacterial Community Composition of Throughfall and Stemflow. <i>Frontiers in Forests and Global Change</i> , 2018, 1, .	2.3	14
42	Urban Forestry. <i>Advances in Chemical Pollution, Environmental Management and Protection</i> , 2018, 3, 35-61.	0.5	7
43	Communicating Science through Comics: A Method. <i>Publications</i> , 2018, 6, 38.	3.8	22
44	Interstorm Variability in the Biolability of Tree-Derived Dissolved Organic Matter (Tree-DOM) in Throughfall and Stemflow. <i>Forests</i> , 2018, 9, 236.	2.1	18
45	Mini-Review: Stemflow as a Resource Limitation to Near-Stem Soils. <i>Frontiers in Plant Science</i> , 2018, 9, 248.	3.6	71
46	Significant contribution of non-vascular vegetation to global rainfall interception. <i>Nature Geoscience</i> , 2018, 11, 563-567.	12.9	77
47	TREE-DOM: DOM FROM THE CROWNING HEADWATERS OF THE AQUATIC CARBON CYCLE. , 2018, , .		0
48	Observed compression of in situ tree stems during freezing. <i>Agricultural and Forest Meteorology</i> , 2017, 243, 19-24.	4.8	8
49	Canopy hydrometeorological dynamics across a chronosequence of a globally invasive species, <i>Ailanthus altissima</i> (Mill., tree of heaven). <i>Agricultural and Forest Meteorology</i> , 2017, 240-241, 10-17.	4.8	36
50	Effects of phenology and meteorological disturbance on litter rainfall interception for a <i>Pinus elliottii</i> stand in the Southeastern United States. <i>Hydrological Processes</i> , 2017, 31, 3719-3728.	2.6	31
51	Edge-to-Stem Variability in Wet-Canopy Evaporation From an Urban Tree Row. <i>Boundary-Layer Meteorology</i> , 2017, 165, 295-310.	2.3	13
52	Temporal Dynamics in the Concentration, Flux, and Optical Properties of Tree-Derived Dissolved Organic Matter in an Epiphyte-Laden Oak-Cedar Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2982-2997.	3.0	32
53	The absorption and evaporation of water vapor by epiphytes in an old-growth Douglas-fir forest during the seasonal summer dry season: Implications for the canopy energy budget. <i>Ecohydrology</i> , 2017, 10, e1801.	2.4	15
54	Surface roughness affects the running speed of tropical canopy ants. <i>Biotropica</i> , 2017, 49, 92-100.	1.6	27

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55	Molecular and Optical Properties of Tree-Derived Dissolved Organic Matter in Throughfall and Stemflow from Live Oaks and Eastern Red Cedar. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	48
56	The importance of considering rainfall partitioning in afforestation initiatives in semiarid climates: A comparison of common planted tree species in Tehran, Iran. <i>Science of the Total Environment</i> , 2016, 568, 845-855.	8.0	63
57	Alteration of soil chitinolytic bacterial and ammonia oxidizing archaeal community diversity by rainwater redistribution in an epiphyte-laden <i>Quercus virginiana</i> canopy. <i>Soil Biology and Biochemistry</i> , 2016, 100, 33-41.	8.8	22
58	Modeling Rainfall Interception Loss for an Epiphyte-Laden <i>Quercus virginiana</i> Forest Using Reformulated Static- and Variable-Storage Gash Analytical Models. <i>Journal of Hydrometeorology</i> , 2016, 17, 1985-1997.	1.9	10
59	Seasonal dynamics of the soil microbial community structure within the proximal area of tree boles: Possible influence of stemflow. <i>European Journal of Soil Biology</i> , 2016, 73, 108-118.	3.2	29
60	Use of multiple correspondence analysis (MCA) to identify interactive meteorological conditions affecting relative throughfall. <i>Journal of Hydrology</i> , 2016, 533, 452-460.	5.4	25
61	Impact of interacting bark structure and rainfall conditions on stemflow variability in a temperate beech-oak forest, central Germany. <i>Hydrological Sciences Journal</i> , 2016, 61, 2071-2083.	2.6	54
62	<i>Tillandsia usneoides</i> (L.) L. (Spanish moss) water storage and leachate characteristics from two maritime oak forest settings. <i>Ecohydrology</i> , 2015, 8, 988-1004.	2.4	27
63	Forest Canopy Precipitation Partitioning. <i>Advances in Botanical Research</i> , 2015, 75, 215-240.	1.1	7
64	Evolution of forest precipitation water storage measurement methods. <i>Hydrological Processes</i> , 2015, 29, 2504-2520.	2.6	55
65	A review and evaluation of forest canopy epiphyte roles in the partitioning and chemical alteration of precipitation. <i>Science of the Total Environment</i> , 2015, 536, 813-824.	8.0	118
66	Forest Canopy Interception Loss Across Temporal Scales: Implications for Urban Greening Initiatives. <i>Professional Geographer</i> , 2015, 67, 41-51.	1.8	24
67	Throughfall alterations by degree of <i>Tillandsia usneoides</i> cover in a southeastern US <i>Quercus virginiana</i> forest. <i>Canadian Journal of Forest Research</i> , 2015, 45, 1688-1698.	1.7	8
68	Calcium and aluminum cycling in a temperate broadleaved deciduous forest of the eastern USA: relative impacts of tree species, canopy state, and flux type. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 458.	2.7	9
69	Forest canopy structural controls over throughfall affect soil microbial community structure in an epiphyte-laden maritime oak stand. <i>Ecohydrology</i> , 2015, 8, 1459-1470.	2.4	35
70	Efficiency of the reformulated Gash's interception model in semiarid afforestations. <i>Agricultural and Forest Meteorology</i> , 2015, 201, 76-85.	4.8	59
71	Throughfall nutrients in a degraded indigenous <i>Fagus orientalis</i> forest and a <i>Picea abies</i> plantation in the of North of Iran. <i>Forest Systems</i> , 2015, 24, e035.	0.3	11
72	Using wavelet analysis to examine bark microrelief. <i>Trees - Structure and Function</i> , 2014, 28, 413-425.	1.9	8

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73	Meteorological influences on stemflow generation across diameter size classes of two morphologically distinct deciduous species. <i>International Journal of Biometeorology</i> , 2014, 58, 2059-2069.	3.0	45
74	Evaluation of an instrumental method to reduce error in canopy water storage estimates via mechanical displacement. <i>Water Resources Research</i> , 2013, 49, 54-63.	4.2	9
75	Temporal variation in end-member chemistry and its influence on runoff mixing patterns in a forested, Piedmont catchment. <i>Water Resources Research</i> , 2013, 49, 1828-1844.	4.2	74
76	Development and testing of a snow interceptometer to quantify canopy water storage and interception processes in the rain/snow transition zone of the North Cascades, Washington, USA. <i>Water Resources Research</i> , 2013, 49, 3243-3256.	4.2	35
77	Stemflow and dissolved organic carbon cycling: temporal variability in concentration, flux, and UV-Vis spectral metrics in a temperate broadleaved deciduous forest in the eastern United States. <i>Canadian Journal of Forest Research</i> , 2012, 42, 207-216.	1.7	34
78	The effects of phenoseason and storm characteristics on throughfall solute washoff and leaching dynamics from a temperate deciduous forest canopy. <i>Science of the Total Environment</i> , 2012, 430, 48-58.	8.0	50
79	Canopy Structure in Relation to Hydrological and Biogeochemical Fluxes. <i>Ecological Studies</i> , 2011, , 371-388.	1.2	45
80	Effects of wind-driven rainfall on stemflow generation between codominant tree species with differing crown characteristics. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1277-1286.	4.8	71
81	Atmospheric deposition and corresponding variability of stemflow chemistry across temporal scales in a mid-Atlantic broadleaved deciduous forest. <i>Atmospheric Environment</i> , 2011, 45, 3046-3054.	4.1	51
82	Instrumental method for reducing error in compression-derived measurements of rainfall interception for individual trees. <i>Hydrological Sciences Journal</i> , 2011, 56, 1061-1066.	2.6	6
83	Effect of Forest Fires on Hydrology and Biogeochemistry of Watersheds. <i>Ecological Studies</i> , 2011, , 599-621.	1.2	7
84	An Automated Instrument for the Measurement of Bark Microrelief. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010, 59, 491-493.	4.7	20
85	Temporal variability of stemflow volume in a beech-yellow poplar forest in relation to tree species and size. <i>Journal of Hydrology</i> , 2010, 380, 112-120.	5.4	104
86	Koalas Give Tree Bark a Licking. <i>Frontiers for Young Minds</i> , 0, 9, .	0.8	0
87	HOW WILL CLIMATE CHANGE IMPACT THE STORM MAGNITUDE AND THROUFALL IN SEVERAL FOREST AREAS IN IRAN?. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-4/W18, 117-125.	0.2	0
88	How Trees Make Tea. <i>Frontiers for Young Minds</i> , 0, 10, .	0.8	1