

James M Vose

List of Publications by Year in descending order

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98
papers

6,773
citations

70961

41
h-index

66788

78
g-index

101
all docs

101
docs citations

101
times ranked

7358
citing authors

#	ARTICLE	IF	CITATIONS
1	Fire and Forests in the 21st Century: Managing Resilience Under Changing Climates and Fire Regimes in USA Forests. <i>Managing Forest Ecosystems</i> , 2021, , 465-502.	0.4	8
2	Applying Climate Change Risk Management Tools to Integrate Streamflow Projections and Social Vulnerability. <i>Ecosystems</i> , 2020, 23, 67-83.	1.6	5
3	Urbanization and climate change jointly shift land surface phenology in the northern mid-latitude large cities. <i>Remote Sensing of Environment</i> , 2020, 236, 111477.	4.6	55
4	Watershed-scale vegetation, water quantity, and water quality responses to wildfire in the southern Appalachian mountain region, United States. <i>Hydrological Processes</i> , 2020, 34, 5188-5209.	1.1	12
5	Climate Change May Increase the Drought Stress of Mesophytic Trees Downslope With Ongoing Forest Mesophication Under a History of Fire Suppression. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	1.0	10
6	Ecosystem processes at the watershed scale: Influence of flowpath patterns of canopy ecophysiology on emergent catchment water and carbon cycling. <i>Ecohydrology</i> , 2019, 12, e2093.	1.1	19
7	Forest and Water in the 21st Century: A Global Perspective. <i>Journal of Forestry</i> , 2019, 117, 80-85.	0.5	5
8	Warmer temperatures reduce net carbon uptake, but do not affect water use, in a mature southern Appalachian forest. <i>Agricultural and Forest Meteorology</i> , 2018, 252, 269-282.	1.9	48
9	Total C and N Pools and Fluxes Vary with Time, Soil Temperature, and Moisture Along an Elevation, Precipitation, and Vegetation Gradient in Southern Appalachian Forests. <i>Ecosystems</i> , 2018, 21, 1623-1638.	1.6	21
10	Assessment of hydrologic vulnerability to urbanization and climate change in a rapidly changing watershed in the Southeast U.S.. <i>Science of the Total Environment</i> , 2018, 645, 806-816.	3.9	35
11	Nonstationary Hydrologic Behavior in Forested Watersheds Is Mediated by Climate-induced Changes in Growing Season Length and Subsequent Vegetation Growth. <i>Water Resources Research</i> , 2018, 54, 5359-5375.	1.7	52
12	Watershed impacts of climate and land use changes depend on magnitude and land use context. <i>Ecohydrology</i> , 2017, 10, e1870.	1.1	49
13	Water yield following forest-to-grass-forest transitions. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 981-997.	1.9	27
14	Forest Management Challenges for Sustaining Water Resources in the Anthropocene. <i>Forests</i> , 2016, 7, 68.	0.9	36
15	Oak, Fire, and Global Change in the Eastern USA: What Might the Future Hold?. <i>Fire Ecology</i> , 2016, 12, 160-179.	1.1	33
16	Streamflow response to increasing precipitation extremes altered by forest management. <i>Geophysical Research Letters</i> , 2016, 43, 3727-3736.	1.5	36
17	Drought limitations to leaf-level gas exchange: results from a model linking stomatal optimization and cohesion-tension theory. <i>Plant, Cell and Environment</i> , 2016, 39, 583-596.	2.8	74
18	Forest biogeochemistry in response to drought. <i>Global Change Biology</i> , 2016, 22, 2318-2328.	4.2	133

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19	High elevation watersheds in the southern Appalachians: Indicators of sensitivity to acidic deposition and the potential for restoration through liming. <i>Forest Ecology and Management</i> , 2016, 377, 101-117.	1.4	9
20	Introduction to drought and US forests: Impacts and potential management responses. <i>Forest Ecology and Management</i> , 2016, 380, 296-298.	1.4	4
21	The influence of watershed characteristics on spatial patterns of trends in annual scale streamflow variability in the continental U.S.. <i>Journal of Hydrology</i> , 2016, 540, 850-860.	2.3	24
22	Effects of riparian zone buffer widths on vegetation diversity in southern Appalachian headwater catchments. <i>Forest Ecology and Management</i> , 2016, 376, 9-23.	1.4	16
23	Contributing factors for drought in United States forest ecosystems under projected future climates and their uncertainty. <i>Forest Ecology and Management</i> , 2016, 380, 299-308.	1.4	43
24	Watershed memory at the Coweeta Hydrologic Laboratory: The effect of past precipitation and storage on hydrologic response. <i>Water Resources Research</i> , 2016, 52, 1673-1695.	1.7	54
25	Ecohydrological implications of drought for forests in the United States. <i>Forest Ecology and Management</i> , 2016, 380, 335-345.	1.4	67
26	Continental U.S. streamflow trends from 1940 to 2009 and their relationships with watershed spatial characteristics. <i>Water Resources Research</i> , 2015, 51, 6262-6275.	1.7	64
27	Potential Implications for Expansion of Freeze-Tolerant <i>Eucalyptus</i> Plantations on Water Resources in the Southern United States. <i>Forest Science</i> , 2015, 61, 509-521.	0.5	10
28	Simulating vegetation controls on hurricane-induced shallow landslides with a distributed ecohydrological model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 361-378.	1.3	36
29	Changes to southern Appalachian water yield and stormflow after loss of a foundation species. <i>Ecohydrology</i> , 2015, 8, 518-528.	1.1	37
30	Functional Role of the Herbaceous Layer in Eastern Deciduous Forest Ecosystems. <i>Ecosystems</i> , 2015, 18, 221-236.	1.6	43
31	Herbaceous species composition and richness of mesophytic cove forests in the southern Appalachians: synthesis and knowledge gaps. <i>Journal of the Torrey Botanical Society</i> , 2014, 141, 39-71.	0.1	17
32	Divergent phenological response to hydroclimate variability in forested mountain watersheds. <i>Global Change Biology</i> , 2014, 20, 2580-2595.	4.2	71
33	Forest Processes. <i>Advances in Global Change Research</i> , 2014, , 25-54.	1.6	3
34	Interacting effects of wildfire severity and liming on nutrient cycling in a southern Appalachian wilderness area. <i>Plant and Soil</i> , 2013, 366, 165-183.	1.8	19
35	Hemlock woolly adelgid in the southern Appalachians: Control strategies, ecological impacts, and potential management responses. <i>Forest Ecology and Management</i> , 2013, 291, 209-219.	1.4	78
36	Future species composition will affect forest water use after loss of eastern hemlock from southern Appalachian forests. <i>Ecological Applications</i> , 2013, 23, 777-790.	1.8	65

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37	Ecosystem Processes and Human Influences Regulate Streamflow Response to Climate Change at Long-Term Ecological Research Sites. <i>BioScience</i> , 2012, 62, 390-404.	2.2	149
38	Long-term temperature and precipitation trends at the Coweeta Hydrologic Laboratory, Otto, North Carolina, USA. <i>Hydrology Research</i> , 2012, 43, 890-901.	1.1	115
39	Age and distribution of an evergreen clonal shrub in the Coweeta Basin: <i>Rhododendron maximum</i> L. <i>Journal of the Torrey Botanical Society</i> , 2012, 139, 149-166.	0.1	29
40	Restoration of shortleaf pine (<i>Pinus echinata</i>)-hardwood ecosystems severely impacted by the southern pine beetle (<i>Dendroctonus frontalis</i>). <i>Forest Ecology and Management</i> , 2012, 274, 181-200.	1.4	12
41	Ecosystem processes at the watershed scale: Hydrologic vegetation gradient as an indicator for lateral hydrologic connectivity of headwater catchments. <i>Water Resources Research</i> , 2012, 48, .	1.7	82
42	Imidacloprid Movement in Soils and Impacts on Soil Microarthropods in Southern Appalachian Eastern Hemlock Stands. <i>Journal of Environmental Quality</i> , 2012, 41, 469-478.	1.0	31
43	Forest dynamics following eastern hemlock mortality in the southern Appalachians. <i>Oikos</i> , 2012, 121, 523-536.	1.2	108
44	The contribution of the Coweeta Hydrologic Laboratory to developing an understanding of long-term (1934-2008) changes in managed and unmanaged forests. <i>Forest Ecology and Management</i> , 2011, 261, 900-910.	1.4	73
45	Impact of Imidacloprid for Control of Hemlock Woolly Adelgid on Nearby Aquatic Macroinvertebrate Assemblages. <i>Southern Journal of Applied Forestry</i> , 2011, 35, 26-32.	0.4	12
46	Direct effects of temperature on forest nitrogen cycling revealed through analysis of long-term watershed records. <i>Global Change Biology</i> , 2011, 17, 297-308.	4.2	66
47	Early Successional Forest Habitats and Water Resources. <i>Managing Forest Ecosystems</i> , 2011, , 253-269.	0.4	2
48	Topography-mediated controls on local vegetation phenology estimated from MODIS vegetation index. <i>Landscape Ecology</i> , 2011, 26, 541-556.	1.9	119
49	Quantifying structural and physiological controls on variation in canopy transpiration among planted pine and hardwood species in the southern Appalachians. <i>Ecohydrology</i> , 2011, 4, 183-195.	1.1	106
50	Forest ecohydrological research in the 21st century: what are the critical needs?. <i>Ecohydrology</i> , 2011, 4, 146-158.	1.1	110
51	A general predictive model for estimating monthly ecosystem evapotranspiration. <i>Ecohydrology</i> , 2011, 4, 245-255.	1.1	195
52	Forest ecohydrological processes in a changing environment. <i>Ecohydrology</i> , 2011, 4, 143-145.	1.1	11
53	Can forest management be used to sustain water-based ecosystem services in the face of climate change?. , 2011, 21, 2049-2067.		131
54	Hemlock Infestation and Mortality: Impacts on Nutrient Pools and Cycling in Appalachian Forests. <i>Soil Science Society of America Journal</i> , 2011, 75, 1935-1945.	1.2	34

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55	Short-term effects of prescribed fire on mixed oak forests in the southern Appalachians: vegetation response. <i>Journal of the Torrey Botanical Society</i> , 2010, 137, 49-66.	0.1	20
56	Can structural and functional characteristics be used to identify riparian zone width in southern Appalachian headwater catchments?. <i>Canadian Journal of Forest Research</i> , 2010, 40, 235-253.	0.8	23
57	Recovery of Nitrogen Pools and Processes in Degraded Riparian Zones in the Southern Appalachians. <i>Journal of Environmental Quality</i> , 2009, 38, 1391-1399.	1.0	11
58	Long-Term Effects of High Intensity Prescribed Fire on Vegetation Dynamics in the Wine Spring Creek Watershed, Western North Carolina, USA. <i>Fire Ecology</i> , 2009, 5, 66-85.	1.1	15
59	Hemlock Declines Rapidly with Hemlock Woolly Adelgid Infestation: Impacts on the Carbon Cycle of Southern Appalachian Forests. <i>Ecosystems</i> , 2009, 12, 179-190.	1.6	112
60	Radiation use efficiency in adjacent hardwood and pine forests in the southern Appalachians. <i>Forest Ecology and Management</i> , 2009, 257, 1034-1042.	1.4	12
61	Effects of prescribed fire in mixed oak forests of the southern Appalachians: forest floor, soil, and soil solution nitrogen responses. <i>Journal of the Torrey Botanical Society</i> , 2009, 136, 380-391.	0.1	33
62	Estimating Forest Ecosystem Evapotranspiration at Multiple Temporal Scales With a Dimension Analysis Approach. <i>Journal of the American Water Resources Association</i> , 2008, 44, 208-221.	1.0	23
63	Nitrogen deposition and cycling across an elevation and vegetation gradient in southern Appalachian forests. <i>International Journal of Environmental Studies</i> , 2008, 65, 391-410.	0.7	42
64	TSUGA CANADENSIS(L.) CARR. MORTALITY WILL IMPACT HYDROLOGIC PROCESSES IN SOUTHERN APPALACHIAN FOREST ECOSYSTEMS. , 2007, 17, 1156-1167.		131
65	Biotic and abiotic factors regulating forest floor CO ₂ flux across a range of forest age classes in the southern Appalachians. <i>Pedobiologia</i> , 2007, 50, 577-587.	0.5	25
66	Regulation of nitrogen mineralization and nitrification in Southern Appalachian ecosystems: Separating the relative importance of biotic vs. abiotic controls. <i>Pedobiologia</i> , 2007, 51, 89-97.	0.5	32
67	A comparison of sap flux-based evapotranspiration estimates with catchment-scale water balance. <i>Agricultural and Forest Meteorology</i> , 2007, 145, 176-185.	1.9	160
68	Potential water yield reduction due to forestation across China. <i>Journal of Hydrology</i> , 2006, 328, 548-558.	2.3	379
69	Variation in Stream Water Quality in an Urban Headwater Stream in the Southern Appalachians. <i>Water, Air, and Soil Pollution</i> , 2006, 169, 331-353.	1.1	43
70	Initial Effects of Prescribed Fire on Quality of Soil Solution and Streamwater in the Southern Appalachian Mountains. <i>Southern Journal of Applied Forestry</i> , 2005, 29, 5-15.	0.4	22
71	Effects of understory prescribed burning on shortleaf pine (<i>Pinus echinata</i> Mill.)/mixed-hardwood forests. <i>Journal of the Torrey Botanical Society</i> , 2005, 132, 236-251.	0.1	33
72	Determination of the Relative Uptake of Ground vs. Surface Water by <i>Populus deltoides</i> During Phytoremediation. <i>International Journal of Phytoremediation</i> , 2004, 6, 239-252.	1.7	18

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73	Stand restoration burning in oak–pine forests in the southern Appalachians: effects on aboveground biomass and carbon and nitrogen cycling. <i>Forest Ecology and Management</i> , 2004, 190, 311-321.	1.4	58
74	Growth of Eastern White Pine (<i>Pinus strobus</i> L.) Related to Forest Floor Consumption by Prescribed Fire in the Southern Appalachians. <i>Southern Journal of Applied Forestry</i> , 2002, 26, 18-25.	0.4	17
75	Seasonal respiration of foliage, fine roots, and woody tissues in relation to growth, tissue N, and photosynthesis. <i>Global Change Biology</i> , 2002, 8, 182-193.	4.2	135
76	Leaf Water Relations and Sapflow in Eastern Cottonwood (<i>Populus deltoides</i> Bartr.) Trees Planted for Phytoremediation of a Groundwater Pollutant. <i>International Journal of Phytoremediation</i> , 2000, 2, 53-73.	1.7	33
77	Long-Term Patterns in Vegetation-Site Relationships in a Southern Appalachian Forest. <i>Journal of the Torrey Botanical Society</i> , 1999, 126, 320.	0.1	75
78	Fine root respiration in mature eastern white pine (<i>Pinus strobus</i>) in situ: the importance of CO ₂ in controlled environments. <i>Tree Physiology</i> , 1999, 19, 475-479.	1.4	44
79	Vegetation dynamics after a prescribed fire in the southern Appalachians. <i>Forest Ecology and Management</i> , 1999, 114, 199-213.	1.4	141
80	Using stand replacement fires to restore southern Appalachian pine–hardwood ecosystems: effects on mass, carbon, and nutrient pools. <i>Forest Ecology and Management</i> , 1999, 114, 215-226.	1.4	56
81	Challenges to modelling NPP in diverse eastern deciduous forests: species-level comparisons of foliar respiration responses to temperature and nitrogen. <i>Ecological Modelling</i> , 1999, 122, 165-174.	1.2	18
82	GENERALITY OF LEAF TRAIT RELATIONSHIPS: A TEST ACROSS SIX BIOMES. <i>Ecology</i> , 1999, 80, 1955-1969.	1.5	1,091
83	Foliar temperature-respiration response functions for broad-leaved tree species in the southern Appalachians. <i>Tree Physiology</i> , 1999, 19, 871-878.	1.4	80
84	Relationships of leaf dark respiration to leaf nitrogen, specific leaf area and leaf life-span: a test across biomes and functional groups. <i>Oecologia</i> , 1998, 114, 471-482.	0.9	441
85	Long-term nitrogen dynamics of Coweeta Forested Watersheds in the southeastern United States of America. <i>Global Biogeochemical Cycles</i> , 1997, 11, 657-671.	1.9	99
86	Title is missing!. <i>Plant and Soil</i> , 1997, 190, 19-28.	1.8	40
87	Effects of Liming on Soils and Streamwaters in a Deciduous Forest: Comparison of Field Results and Simulations. <i>Journal of Environmental Quality</i> , 1995, 24, 1104-1117.	1.0	13
88	Effects of elevated CO ₂ and N fertilization on soil respiration from ponderosa pine (<i>Pinus ponderosa</i>) in open-top chambers. <i>Canadian Journal of Forest Research</i> , 1995, 25, 1243-1251.	0.8	72
89	Vertical leaf area distribution, light transmittance, and application of the Beer–Lambert Law in four mature hardwood stands in the southern Appalachians. <i>Canadian Journal of Forest Research</i> , 1995, 25, 1036-1043.	0.8	110
90	Seasonal changes of leaf area index (LAI) in a tropical deciduous forest in west Mexico. <i>Forest Ecology and Management</i> , 1995, 74, 171-180.	1.4	118

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91	Effects of long-term drought on the hydrology and growth of a white pine plantation in the southern Appalachians. <i>Forest Ecology and Management</i> , 1994, 64, 25-39.	1.4	61
92	Site preparation burning to improve southern Appalachian pine-hardwood stands: photosynthesis, water relations, and growth of planted <i>Pinus strobus</i> during establishment. <i>Canadian Journal of Forest Research</i> , 1993, 23, 2278-2285.	0.8	20
93	Site preparation burning to improve southern Appalachian pine-hardwood stands: aboveground biomass, forest floor mass, and nitrogen and carbon pools. <i>Canadian Journal of Forest Research</i> , 1993, 23, 2255-2262.	0.8	58
94	Biomass response mechanisms of understory species the first year after prescribed burning in an Arizona ponderosa-pine community. <i>Forest Ecology and Management</i> , 1991, 40, 175-187.	1.4	23
95	Quantity and timing of needlefall in N and P fertilized loblolly pine stands. <i>Forest Ecology and Management</i> , 1991, 41, 205-219.	1.4	24
96	Watershed-scale responses to ozone events in a <i>Pinus strobus</i> L. plantation. <i>Water, Air, and Soil Pollution</i> , 1990, 54, 119-133.	1.1	11
97	Assessing seasonal leaf area dynamics and vertical leaf area distribution in eastern white pine (<i>Pinus strobus</i> L.) with a portable light meter. <i>Tree Physiology</i> , 1990, 7, 125-134.	1.4	40
98	Processes of understory seedling recruitment 1 year after prescribed fire in an Arizona ponderosa pine community. <i>Canadian Journal of Botany</i> , 1987, 65, 2280-2290.	1.2	30