

# Russell K Monson

## List of Publications by Year in descending order

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144  
papers

17,615  
citations

12303

69  
h-index

14702

127  
g-index

147  
all docs

147  
docs citations

147  
times ranked

13648  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isoprene and monoterpene emission rate variability: Model evaluations and sensitivity analyses. <i>Journal of Geophysical Research</i> , 1993, 98, 12609-12617.	3.3	1,432
2	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	2.4	646
3	Seasonality of ecosystem respiration and gross primary production as derived from FLUXNET measurements. <i>Agricultural and Forest Meteorology</i> , 2002, 113, 53-74.	1.9	606
4	Terrestrial biosphere models need better representation of vegetation phenology: results from the North American Carbon Program site synthesis. <i>Global Change Biology</i> , 2012, 18, 566-584.	4.2	583
5	Observed increase in local cooling effect of deforestation at higher latitudes. <i>Nature</i> , 2011, 479, 384-387.	13.7	543
6	Isoprene and monoterpene emission rate variability: Observations with eucalyptus and emission rate algorithm development. <i>Journal of Geophysical Research</i> , 1991, 96, 10799-10808.	3.3	496
7	Plant-microbe competition for soil amino acids in the alpine tundra: effects of freeze-thaw and dry-rewet events. <i>Oecologia</i> , 1998, 113, 406-414.	0.9	472
8	Winter forest soil respiration controlled by climate and microbial community composition. <i>Nature</i> , 2006, 439, 711-714.	13.7	468
9	Stable isotopes in tree rings: towards a mechanistic understanding of isotope fractionation and mixing processes from the leaves to the wood. <i>Tree Physiology</i> , 2014, 34, 796-818.	1.4	359
10	Isoprene Emission from Aspen Leaves. <i>Plant Physiology</i> , 1989, 90, 267-274.	2.3	350
11	Increased CO <sub>2</sub> uncouples growth from isoprene emission in an agriforest ecosystem. <i>Nature</i> , 2003, 421, 256-259.	13.7	312
12	LINKS BETWEEN MICROBIAL POPULATION DYNAMICS AND NITROGEN AVAILABILITY IN AN ALPINE ECOSYSTEM. <i>Ecology</i> , 1999, 80, 1623-1631.	1.5	310
13	Longer growing seasons lead to less carbon sequestration by a subalpine forest. <i>Global Change Biology</i> , 2010, 16, 771-783.	4.2	286
14	Relationships among Isoprene Emission Rate, Photosynthesis, and Isoprene Synthase Activity as Influenced by Temperature. <i>Plant Physiology</i> , 1992, 98, 1175-1180.	2.3	272
15	On the use of MODIS EVI to assess gross primary productivity of North American ecosystems. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	267
16	Differential controls by climate and substrate over the heterotrophic and rhizospheric components of soil respiration. <i>Global Change Biology</i> , 2006, 12, 205-216.	4.2	267
17	A model-data intercomparison of CO <sub>2</sub> exchange across North America: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	247
18	Carbon availability and temperature control the post-snowmelt decline in alpine soil microbial biomass. <i>Soil Biology and Biochemistry</i> , 2000, 32, 441-448.	4.2	227

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19	Estimation of net ecosystem carbon exchange for the conterminous United States by combining MODIS and AmeriFlux data. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1827-1847.	1.9	221
20	Ecological and evolutionary aspects of isoprene emission from plants. <i>Oecologia</i> , 1999, 118, 109-123.	0.9	214
21	The effects of tree rhizodeposition on soil exoenzyme activity, dissolved organic carbon, and nutrient availability in a subalpine forest ecosystem. <i>Oecologia</i> , 2007, 154, 327-338.	0.9	209
22	LINKS BETWEEN MICROBIAL POPULATION DYNAMICS AND NITROGEN AVAILABILITY IN AN ALPINE ECOSYSTEM. <i>Oecologia</i> , 1999, 80, 1623.		205
23	SEASONAL PARTITIONING OF NITROGEN BY PLANTS AND SOIL MICROORGANISMS IN AN ALPINE ECOSYSTEM. <i>Ecology</i> , 1999, 80, 1883-1891.	1.5	191
24	SOIL AMINO ACID UTILIZATION AMONG SPECIES OF THE CYPERACEAE: PLANT AND SOIL PROCESSES. <i>Ecology</i> , 1999, 80, 2408-2419.	1.5	178
25	Partitioning net ecosystem carbon exchange with isotopic fluxes of CO <sub>2</sub> . <i>Global Change Biology</i> , 2001, 7, 127-145.	4.2	178
26	Patterns of induced and constitutive monoterpene production in conifer needles in relation to insect herbivory. <i>Oecologia</i> , 1998, 114, 531-540.	0.9	169
27	Climatic influences on net ecosystem CO <sub>2</sub> exchange during the transition from wintertime carbon source to springtime carbon sink in a high-elevation, subalpine forest. <i>Oecologia</i> , 2005, 146, 130-147.	0.9	169
28	A multiyear evaluation of a Dynamic Global Vegetation Model at three AmeriFlux forest sites: Vegetation structure, phenology, soil temperature, and CO <sub>2</sub> and H <sub>2</sub> O vapor exchange. <i>Ecological Modelling</i> , 2006, 196, 1-31.	1.2	161
29	Spatial and temporal controls of soil respiration rate in a high-elevation, subalpine forest. <i>Soil Biology and Biochemistry</i> , 2003, 35, 525-534.	4.2	158
30	Response of isoprene emission to ambient CO <sub>2</sub> changes and implications for global budgets. <i>Global Change Biology</i> , 2009, 15, 1127-1140.	4.2	158
31	Assessing net ecosystem carbon exchange of U.S. terrestrial ecosystems by integrating eddy covariance flux measurements and satellite observations. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 60-69.	1.9	157
32	C3- C4 Intermediate Photosynthesis in Plants. <i>BioScience</i> , 1984, 34, 563-574.	2.2	154
33	Isoprene Emission Rate and Intercellular Isoprene Concentration as Influenced by Stomatal Distribution and Conductance. <i>Plant Physiology</i> , 1992, 100, 987-992.	2.3	154
34	Non-mycorrhizal uptake of amino acids by roots of the alpine sedge <i>Kobresia myosuroides</i> : implications for the alpine nitrogen cycle. <i>Oecologia</i> , 1996, 108, 488-494.	0.9	152
35	Gap-filling missing data in eddy covariance measurements using multiple imputation (MI) for annual estimations. <i>Agricultural and Forest Meteorology</i> , 2004, 121, 93-111.	1.9	146
36	Phase and amplitude of ecosystem carbon release and uptake potentials as derived from FLUXNET measurements. <i>Agricultural and Forest Meteorology</i> , 2002, 113, 75-95.	1.9	145

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37	Leaf isoprene emission rate as a function of atmospheric CO <sub>2</sub> concentration. <i>Global Change Biology</i> , 2009, 15, 1189-1200.	4.2	144
38	Photosynthetic Characteristics of C3-C4 Intermediate Flaveria Species. <i>Plant Physiology</i> , 1983, 71, 944-948.	2.3	143
39	Airflows and turbulent flux measurements in mountainous terrain. <i>Agricultural and Forest Meteorology</i> , 2003, 119, 1-21.	1.9	142
40	Ecohydrological controls on snowmelt partitioning in mixed-conifer subalpine forests. <i>Ecohydrology</i> , 2009, 2, 129-142.	1.1	137
41	Carbon Gain by Plants in Natural Environments. <i>BioScience</i> , 1987, 37, 21-29.	2.2	135
42	Biological aspects of constructing volatile organic compound emission inventories. <i>Atmospheric Environment</i> , 1995, 29, 2989-3002.	1.9	128
43	Changing the way we think about global change research: scaling up in experimental ecosystem science. <i>Global Change Biology</i> , 2004, 10, 393-407.	4.2	126
44	Temperature Dependence of Photosynthesis in <i>Agropyron smithii</i> Rydb.. <i>Plant Physiology</i> , 1982, 69, 921-928.	2.3	124
45	Biospheric Trace Gas Fluxes and Their Control Over Tropospheric Chemistry. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2001, 32, 547-576.	6.7	124
46	Isoprene emission from terrestrial ecosystems in response to global change: minding the gap between models and observations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 1677-1695.	1.6	121
47	Why only some plants emit isoprene. <i>Plant, Cell and Environment</i> , 2013, 36, 503-516.	2.8	116
48	The trade-off between growth rate and yield in microbial communities and the consequences for under-snow soil respiration in a high elevation coniferous forest. <i>Biogeochemistry</i> , 2009, 95, 23-35.	1.7	115
49	Emissions of volatile organic compounds during the decomposition of plant litter. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	115
50	Midday values of gross CO <sub>2</sub> flux and light use efficiency during satellite overpasses can be used to directly estimate eight-day mean flux. <i>Agricultural and Forest Meteorology</i> , 2005, 131, 1-12.	1.9	114
51	Estimating sublimation of intercepted and sub-canopy snow using eddy covariance systems. <i>Hydrological Processes</i> , 2007, 21, 1567-1575.	1.1	114
52	Ecological Controls over Monoterpene Emissions from Douglas-Fir ( <i>Pseudotsuga Menziesii</i> ). <i>Ecology</i> , 1995, 76, 2640-2647.	1.5	112
53	Modeling the isoprene emission rate from leaves. <i>New Phytologist</i> , 2012, 195, 541-559.	3.5	111
54	Within-plant isoprene oxidation confirmed by direct emissions of oxidation products methyl vinyl ketone and methacrolein. <i>Global Change Biology</i> , 2012, 18, 973-984.	4.2	107

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55	Coupling between carbon cycling and climate in a high-elevation, subalpine forest: a model-data fusion analysis. <i>Oecologia</i> , 2007, 151, 54-68.	0.9	105
56	Biochemistry and physiology of foliar isoprene production. <i>Trends in Plant Science</i> , 2000, 5, 477-481.	4.3	104
57	Partitioning controls on Amazon forest photosynthesis between environmental and biotic factors at hourly to interannual timescales. <i>Global Change Biology</i> , 2017, 23, 1240-1257.	4.2	102
58	Carbon sequestration studied in western U.S. mountains. <i>Eos</i> , 2002, 83, 445.	0.1	101
59	Leaf uptake of nitrogen dioxide (NO <sub>2</sub> ) in a tropical wet forest: implications for tropospheric chemistry. <i>Oecologia</i> , 2001, 127, 214-221.	0.9	98
60	Latitudinal patterns of magnitude and interannual variability in net ecosystem exchange regulated by biological and environmental variables. <i>Global Change Biology</i> , 2009, 15, 2905-2920.	4.2	94
61	CO <sub>2</sub> transport over complex terrain. <i>Agricultural and Forest Meteorology</i> , 2007, 145, 1-21.	1.9	93
62	Model-data synthesis of diurnal and seasonal CO <sub>2</sub> fluxes at Niwot Ridge, Colorado. <i>Global Change Biology</i> , 2006, 12, 240-259.	4.2	92
63	Persistent reduced ecosystem respiration after insect disturbance in high elevation forests. <i>Ecology Letters</i> , 2013, 16, 731-737.	3.0	90
64	Seasonal Water Potential Components of Sonoran Desert Plants. <i>Ecology</i> , 1982, 63, 113-123.	1.5	84
65	The contribution of beneath-snow soil respiration to total ecosystem respiration in a high-elevation, subalpine forest. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	1.9	84
66	Monoterpene emission from coniferous trees in response to elevated CO <sub>2</sub> concentration and climate warming. <i>Global Change Biology</i> , 1999, 5, 252-267.	4.2	83
67	THE CONTRIBUTION OF ADVECTIVE FLUXES TO NET ECOSYSTEM EXCHANGE IN A HIGH-ELEVATION, SUBALPINE FOREST. <i>Ecological Applications</i> , 2008, 18, 1379-1390.	1.8	81
68	The relationship between isoprene emission rate and dark respiration rate in white poplar ( <i>Populus</i> ). <i>Plant, Cell and Environment</i> , 2007, 30, 1671-1678.	2.8	79
69	Modelling changes in VOC emission in response to climate change in the continental United States. <i>Global Change Biology</i> , 1999, 5, 791-806.	4.2	76
70	Isoprene research – 60 years later, the biology is still enigmatic. <i>Plant, Cell and Environment</i> , 2017, 40, 1671-1678.	2.8	76
71	Some like it hot: the physiological ecology of C <sub>4</sub> plant evolution. <i>Oecologia</i> , 2018, 187, 941-966.	0.9	75
72	The uptake of gaseous organic nitrogen by leaves: A significant global nitrogen transfer process. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	74

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73	Modeling and measuring the nocturnal drainage flow in a high-elevation, subalpine forest with complex terrain. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	74
74	Estimating transpiration and the sensitivity of carbon uptake to water availability in a subalpine forest using a simple ecosystem process model informed by measured net CO <sub>2</sub> and H <sub>2</sub> O fluxes. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1467-1477.	1.9	74
75	Biogenic Hydrocarbon Chemistry within and Above a Mixed Deciduous Forest. <i>Journal of Atmospheric Chemistry</i> , 2007, 56, 165-185.	1.4	73
76	Controls over monoterpene emissions from boreal forest conifers. <i>Tree Physiology</i> , 1997, 17, 563-569.	1.4	72
77	The future of isoprene emission from leaves, canopies and landscapes. <i>Plant, Cell and Environment</i> , 2014, 37, 1727-1740.	2.8	70
78	Sexual differences in gas exchange and response to environmental stress in dioecious <i>Silene latifolia</i> (Caryophyllaceae). , 1994, 81, 166.		70
79	Midday depression in net photosynthesis and stomatal conductance in <i>Yucca glauca</i> . <i>Oecologia</i> , 1985, 67, 380-387.	0.9	66
80	A comparison of water and carbon dioxide exchange at a windy alpine tundra and subalpine forest site near Niwot Ridge, Colorado. <i>Biogeochemistry</i> , 2009, 95, 61-76.	1.7	65
81	Thermotolerance of Leaf Discs from Four Isoprene-Emitting Species Is Not Enhanced by Exposure to Exogenous Isoprene <sup>1</sup> . <i>Plant Physiology</i> , 1999, 120, 821-826.	2.3	63
82	Coordinated resource allocation to plant growthâ€”defense tradeoffs. <i>New Phytologist</i> , 2022, 233, 1051-1066.	3.5	63
83	Adaptive significance of nitrogen storage in <i>Bistorta bistortoides</i> , an alpine herb. <i>Oecologia</i> , 1992, 92, 578-585.	0.9	58
84	Modeling wholeâ€”tree carbon assimilation rate using observed transpiration rates and needle sugar carbon isotope ratios. <i>New Phytologist</i> , 2010, 185, 1000-1015.	3.5	58
85	Latitudinal gradients in tree ring stable carbon and oxygen isotopes reveal differential climate influences of the North American Monsoon System. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1978-1991.	1.3	57
86	Field measurements of photosynthesis, water-use efficiency, and growth in <i>Agropyron smithii</i> (C3) and <i>Bouteloua gracilis</i> (C4) in the Colorado shortgrass steppe. <i>Oecologia</i> , 1986, 68, 400-409.	0.9	56
87	Airflows and turbulent flux measurements in mountainous terrain. <i>Agricultural and Forest Meteorology</i> , 2004, 125, 187-205.	1.9	54
88	Disentangling seasonal and interannual legacies from inferred patterns of forest water and carbon cycling using treeâ€”ring stable isotopes. <i>Global Change Biology</i> , 2018, 24, 5332-5347.	4.2	52
89	Enhanced isoprene-related tolerance of heat- and light-stressed photosynthesis at low, but not high, CO <sub>2</sub> concentrations. <i>Oecologia</i> , 2011, 166, 273-282.	0.9	51
90	Beyond greenness: Detecting temporal changes in photosynthetic capacity with hyperspectral reflectance data. <i>PLoS ONE</i> , 2017, 12, e0189539.	1.1	51

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91	Sexual differences in gas exchange and response to environmental stress in dioecious <i>Silene latifolia</i> (Caryophyllaceae). <i>American Journal of Botany</i> , 1994, 81, 166-174.	0.8	50
92	The relative contributions of reduced photorespiration, and improved water-and nitrogen-use efficiencies, to the advantages of C3&sup2;C4 intermediate photosynthesis in <i>Flaveria</i> . <i>Oecologia</i> , 1989, 80, 215-221.	0.9	49
93	Scaling Isoprene Fluxes from Leaves to Canopies: Test Cases over a Boreal Aspen and a Mixed Species Temperate Forest. <i>Journal of Applied Meteorology and Climatology</i> , 1999, 38, 885-898.	1.7	49
94	Tree species effects on ecosystem water-use efficiency in a high-elevation, subalpine forest. <i>Oecologia</i> , 2010, 162, 491-504.	0.9	49
95	Earlier snowmelt reduces atmospheric carbon uptake in midlatitude subalpine forests. <i>Geophysical Research Letters</i> , 2016, 43, 8160-8168.	1.5	48
96	Contribution of Various Carbon Sources Toward Isoprene Biosynthesis in Poplar Leaves Mediated by Altered Atmospheric CO2 Concentrations. <i>PLoS ONE</i> , 2012, 7, e32387.	1.1	47
97	Fluxes of energy, water, and carbon dioxide from mountain ecosystems at Niwot Ridge, Colorado. <i>Plant Ecology and Diversity</i> , 2015, 8, 663-676.	1.0	47
98	Leaf isoprene emission as a trait that mediates the growth-defense tradeoff in the face of climate stress. <i>Oecologia</i> , 2021, 197, 885-902.	0.9	45
99	Supply and demand processes as controls over needle monoterpene synthesis and concentration in Douglas fir [ <i>Pseudotsuga menziesii</i> (Mirb.) Franco]. <i>Oecologia</i> , 2002, 132, 382-391.	0.9	44
100	The interacting effects of elevated atmospheric CO2 concentration, drought and leaf-to-air vapour pressure deficit on ecosystem isoprene fluxes. <i>Oecologia</i> , 2005, 146, 120-129.	0.9	43
101	Biotic and abiotic controls on biogenic volatile organic compound fluxes from a subalpine forest floor. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 547-556.	1.3	43
102	EXPERIMENTAL STUDIES OF PONDEROSA PINE. III. DIFFERENCES IN PHOTOSYNTHESIS, STOMATAL CONDUCTANCE, AND WATER&sup2;USE EFFICIENCY BETWEEN TWO GENETIC LINES. <i>American Journal of Botany</i> , 1989, 76, 1041-1047.	0.8	41
103	Canopy structure and atmospheric flows in relation to the $\delta^{13}C$ of respired CO2 in a subalpine coniferous forest. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 592-605.	1.9	41
104	Atmospheric Stability Effects on Wind Fields and Scalar Mixing Within and Just Above a Subalpine Forest in Sloping Terrain. <i>Boundary-Layer Meteorology</i> , 2011, 138, 231-262.	1.2	41
105	Nitrogen and carbon storage in alpine plants. <i>Integrative and Comparative Biology</i> , 2006, 46, 35-48.	0.9	40
106	Controls over ozone deposition to a high elevation subalpine forest. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1447-1459.	1.9	40
107	Snow Temperature Changes within a Seasonal Snowpack and Their Relationship to Turbulent Fluxes of Sensible and Latent Heat. <i>Journal of Hydrometeorology</i> , 2014, 15, 117-142.	0.7	38
108	Ectomycorrhizal transfer of amino acid-nitrogen to the alpine sedge <i>Kobresia myosuroides</i> . <i>New Phytologist</i> , 1999, 142, 163-167.	3.5	36

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109	HERBIVORE-INDUCED MONOTERPENE EMISSIONS FROM CONIFEROUS FORESTS: POTENTIAL IMPACT ON LOCAL TROPOSPHERIC CHEMISTRY. , 1999, 9, 1147-1159.		35
110	Perspectives on next-generation technology for environmental sensor networks. <i>Frontiers in Ecology and the Environment</i> , 2010, 8, 193-200.	1.9	33
111	Seasonal pattern of regional carbon balance in the central Rocky Mountains from surface and airborne measurements. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	33
112	Volatile organic compound emissions from terrestrial ecosystems: A primary biological control over atmospheric chemistry. <i>Israel Journal of Chemistry</i> , 2002, 42, 29-42.	1.0	31
113	High productivity in hybrid-poplar plantations without isoprene emission to the atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1596-1605.	3.3	31
114	Variation among different genotypes of hybrid poplar with regard to leaf volatile organic compound emissions. <i>Ecological Applications</i> , 2012, 22, 1865-1875.	1.8	28
115	Physiological Reality in Relation to Ecosystem- and Global-Level Estimates of Isoprene Emission. , 1991, , 185-207.		27
116	The effect of elevated CO <sub>2</sub> , soil and atmospheric water deficit and seasonal phenology on leaf and ecosystem isoprene emission. <i>Functional Plant Biology</i> , 2007, 34, 774.	1.1	27
117	PHOTOSYNTHETIC CHARACTERISTICS OF C <sub>3</sub> -C <sub>4</sub> INTERMEDIATE FLAVERIA FLORIDANA (ASTERACEAE) IN NATURAL HABITATS: EVIDENCE OF ADVANTAGES TO C <sub>3</sub> -C <sub>4</sub> PHOTOSYNTHESIS AT HIGH LEAF TEMPERATURES. <i>American Journal of Botany</i> , 1991, 78, 795-800.	0.8	24
118	Climate controls over ecosystem metabolism: insights from a fifteen-year inductive artificial neural network synthesis for a subalpine forest. <i>Oecologia</i> , 2017, 184, 25-41.	0.9	22
119	A nonparametric method for separating photosynthesis and respiration components in CO <sub>2</sub> flux measurements. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	21
120	Night-time respiration rate and leaf carbohydrate concentrations are not coupled in two alpine perennial species. <i>New Phytologist</i> , 2001, 149, 419-430.	3.5	19
121	Joint data assimilation of satellite reflectance and net ecosystem exchange data constrains ecosystem carbon fluxes at a high-elevation subalpine forest. <i>Agricultural and Forest Meteorology</i> , 2014, 195-196, 73-88.	1.9	19
122	Changes in soil biogeochemistry following disturbance by girdling and mountain pine beetles in subalpine forests. <i>Oecologia</i> , 2015, 177, 981-995.	0.9	18
123	Interactions between temperature and intercellular CO <sub>2</sub> concentration in controlling leaf isoprene emission rates. <i>Plant, Cell and Environment</i> , 2016, 39, 2404-2413.	2.8	18
124	An interannual assessment of the relationship between the stable carbon isotopic composition of ecosystem respiration and climate in a high-elevation subalpine forest. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	17
125	Metabolic and Gene Expression Controls on the Production of Biogenic Volatile Organic Compounds. <i>Tree Physiology</i> , 2013, , 153-179.	0.9	17
126	Weather and climate controls over the seasonal carbon isotope dynamics of sugars from subalpine forest trees. <i>Plant, Cell and Environment</i> , 2009, 33, 35-47.	2.8	16



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127	Differential controls by climate and physiology over the emission rates of biogenic volatile organic compounds from mature trees in a semi-arid pine forest. <i>Oecologia</i> , 2016, 180, 345-358.	0.9	14
128	Experimental Studies of Ponderosa Pine. III. Differences in Photosynthesis, Stomatal Conductance, and Water-Use Efficiency Between Two Genetic Lines. <i>American Journal of Botany</i> , 1989, 76, 1041.	0.8	14
129	PHOTOSYNTHETIC CHARACTERISTICS OF C3-C4 INTERMEDIATE FLAVERIA FLORIDANA (ASTERACEAE) IN NATURAL HABITATS: EVIDENCE OF ADVANTAGES TO C3-C4 PHOTOSYNTHESIS AT HIGH LEAF TEMPERATURES. , 1991, 78, 795.		13
130	The Niwot Ridge Subalpine Forest US-NR1 AmeriFlux site â€“ Part 1: Data acquisition and site record-keeping. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 451-471.	0.6	12
131	A field study of photosynthetic temperature acclimation in <i>Carex eleocharis</i> Bailey.. <i>Plant, Cell and Environment</i> , 1984, 7, 301-308.	2.8	11
132	Flux determinations and physiological response in the exposure of red spruce to gaseous hydrogen peroxide, ozone, and sulfur dioxide. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 42, 183.	0.8	11
133	Forecasting net ecosystem CO <sub>2</sub> exchange in a subalpine forest using model data assimilation combined with simulated climate and weather generation. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2013, 118, 549-565.	1.3	11
134	Differential responses of carbon and water vapor fluxes to climate among evergreen needleleaf forests in the USA. <i>Ecological Processes</i> , 2016, 5, .	1.6	11
135	Conifer Monoterpene Chemistry during an Outbreak Enhances Consumption and Immune Response of an Eruptive Folivore. <i>Journal of Chemical Ecology</i> , 2016, 42, 1281-1292.	0.9	9
136	A branch chamber system and techniques for simultaneous pollutant exposure experiments and gaseous flux determinations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1990, 42, 170-182.	0.8	7
137	Seasonal and diurnal trends in progressive isotope enrichment along needles in two pine species. <i>Plant, Cell and Environment</i> , 2021, 44, 143-155.	2.8	6
138	The many faces of plant carbon relations: forging an ecophysiological identity in the age of human influence. <i>New Phytologist</i> , 2003, 157, 167-170.	3.5	5
139	Vapor pressure deficit helps explain biogenic volatile organic compound fluxes from the forest floor and canopy of a temperate deciduous forest. <i>Oecologia</i> , 2021, 197, 971-988.	0.9	4
140	Heterogeneous isotope effects decouple conifer leaf and branch sugar $\delta^{18}O$ and $\delta^{13}C$ . <i>Oecologia</i> , 2022, 198, 357-370.	0.9	2
141	HERBIVORE-INDUCED MONOTERPENE EMISSIONS FROM CONIFEROUS FORESTS: POTENTIAL IMPACT ON LOCAL TROPOSPHERIC CHEMISTRY. , 1999, 9, 1147.		1
142	<i>Oecologia</i> enters a new era. <i>Oecologia</i> , 2007, 153, 207-208.	0.9	0
143	Preface: Honoring the career of Professor James R. Ehleringer. <i>Oecologia</i> , 2018, 187, 875-878.	0.9	0
144	Isoprenoid Metabolism. , 2004, , 625-628.		0