

# Ram Oren

## List of Publications by Year in descending order

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193  
papers

25,071  
citations

5248

83  
h-index

7333

152  
g-index

205  
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205  
docs citations

205  
times ranked

16764  
citing authors

#	ARTICLE	IF	CITATIONS
1	Progressive Nitrogen Limitation of Ecosystem Responses to Rising Atmospheric Carbon Dioxide. <i>BioScience</i> , 2004, 54, 731.	2.2	1,092
2	Survey and synthesis of intra- and interspecific variation in stomatal sensitivity to vapour pressure deficit. <i>Plant, Cell and Environment</i> , 1999, 22, 1515-1526.	2.8	986
3	Soil fertility limits carbon sequestration by forest ecosystems in a CO <sub>2</sub> -enriched atmosphere. <i>Nature</i> , 2001, 411, 469-472.	13.7	957
4	Forest response to elevated CO <sub>2</sub> is conserved across a broad range of productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18052-18056.	3.3	880
5	Water deficits and hydraulic limits to leaf water supply. <i>Plant, Cell and Environment</i> , 2002, 25, 251-263.	2.8	707
6	Differential responses to changes in growth temperature between trees from different functional groups and biomes: a review and synthesis of data. <i>Tree Physiology</i> , 2010, 30, 669-688.	1.4	663
7	The likely impact of elevated [CO <sub>2</sub> ], nitrogen deposition, increased temperature and management on carbon sequestration in temperate and boreal forest ecosystems: a literature review. <i>New Phytologist</i> , 2007, 173, 463-480.	3.5	579
8	Mechanisms of long-distance dispersal of seeds by wind. <i>Nature</i> , 2002, 418, 409-413.	13.7	565
9	Observed increase in local cooling effect of deforestation at higher latitudes. <i>Nature</i> , 2011, 479, 384-387.	13.7	543
10	Evaluation of 11 terrestrial carbon-nitrogen cycle models against observations from two temperate forest FACE enrichment studies. <i>New Phytologist</i> , 2014, 202, 803-822.	3.5	378
11	Increases in the flux of carbon belowground stimulate nitrogen uptake and sustain the long-term enhancement of forest productivity under elevated CO <sub>2</sub> . <i>Ecology Letters</i> , 2011, 14, 349-357.	3.0	374
12	Simple additive effects are rare: a quantitative review of plant biomass and soil process responses to combined manipulations of CO <sub>2</sub> and temperature. <i>Global Change Biology</i> , 2012, 18, 2681-2693.	4.2	365
13	Increases in nitrogen uptake rather than nitrogen-use efficiency support higher rates of temperate forest productivity under elevated CO <sub>2</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14014-14019.	3.3	353
14	Evapotranspiration: A process driving mass transport and energy exchange in the soil-plant-atmosphere-climate system. <i>Reviews of Geophysics</i> , 2012, 50, .	9.0	334
15	Application of the pipe model theory to predict canopy leaf area. <i>Canadian Journal of Forest Research</i> , 1982, 12, 556-560.	0.8	330
16	Canopy nitrogen, carbon assimilation, and albedo in temperate and boreal forests: Functional relations and potential climate feedbacks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19336-19341.	3.3	326
17	Forest water use and water use efficiency at elevated CO <sub>2</sub> : a model-data intercomparison at two contrasting temperate forest FACE sites. <i>Global Change Biology</i> , 2013, 19, 1759-1779.	4.2	314
18	A stomatal optimization theory to describe the effects of atmospheric CO <sub>2</sub> on leaf photosynthesis and transpiration. <i>Annals of Botany</i> , 2010, 105, 431-442.	1.4	282

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19	Radial patterns of xylem sap flow in non-, diffuse- and ring-porous tree species. <i>Plant, Cell and Environment</i> , 1996, 19, 983-990.	2.8	281
20	The effect of tree height on crown level stomatal conductance. <i>Plant, Cell and Environment</i> , 2000, 23, 365-375.	2.8	281
21	Influence of soil porosity on water use in <i>Pinus taeda</i> . <i>Oecologia</i> , 2000, 124, 495-505.	0.9	270
22	Where does the carbon go? A modelâ€”data intercomparison of vegetation carbon allocation and turnover processes at two temperate forest freeâ€”air CO <sub>2</sub> enrichment sites. <i>New Phytologist</i> , 2014, 203, 883-899.	3.5	263
23	Analyses of assumptions and errors in the calculation of stomatal conductance from sap flux measurements. <i>Tree Physiology</i> , 2000, 20, 579-589.	1.4	258
24	Influence of nutrient versus water supply on hydraulic architecture and water balance in <i>Pinus taeda</i> . <i>Plant, Cell and Environment</i> , 2000, 23, 1055-1066.	2.8	252
25	Using ecosystem experiments to improve vegetation models. <i>Nature Climate Change</i> , 2015, 5, 528-534.	8.1	249
26	Photoperiodic regulation of the seasonal pattern of photosynthetic capacity and the implications for carbon cycling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8612-8617.	3.3	247
27	Leaf stomatal responses to vapour pressure deficit under current and CO <sub>2</sub> -enriched atmosphere explained by the economics of gas exchange. <i>Plant, Cell and Environment</i> , 2009, 32, 968-979.	2.8	244
28	Reâ€”assessment of plant carbon dynamics at the Duke freeâ€”air CO <sub>2</sub> enrichment site: interactions of atmospheric [CO <sub>2</sub> ] with nitrogen and water availability over stand development. <i>New Phytologist</i> , 2010, 185, 514-528.	3.5	242
29	Estimating components of forest evapotranspiration: A footprint approach for scaling sap flux measurements. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1719-1732.	1.9	237
30	Transpiration in response to variation in microclimate and soil moisture in southeastern deciduous forests. <i>Oecologia</i> , 2001, 127, 549-559.	0.9	229
31	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
32	Separating the effects of climate and vegetation on evapotranspiration along a successional chronosequence in the southeastern US. <i>Global Change Biology</i> , 2006, 12, 2115-2135.	4.2	219
33	Carbon dioxide and water vapor exchange in a warm temperate grassland. <i>Oecologia</i> , 2004, 138, 259-274.	0.9	216
34	PROGRESSIVE NITROGEN LIMITATION OF ECOSYSTEM PROCESSES UNDER ELEVATED CO <sub>2</sub> IN A WARM-TEMPERATE FOREST. <i>Ecology</i> , 2006, 87, 15-25.	1.5	210
35	A continuous measure of gross primary production for the conterminous United States derived from MODIS and AmeriFlux data. <i>Remote Sensing of Environment</i> , 2010, 114, 576-591.	4.6	210
36	Scaling xylem sap flux and soil water balance and calculating variance: a method for partitioning water flux in forests. <i>Annales Des Sciences ForestiÃ”res</i> , 1998, 55, 191-216.	1.1	208

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37	Irreconcilable Differences: Fine-Root Life Spans and Soil Carbon Persistence. <i>Science</i> , 2008, 319, 456-458.	6.0	200
38	Water Transport in Maize Roots. <i>Plant Physiology</i> , 1987, 84, 1220-1232.	2.3	198
39	Role of aquaporins in determining transpiration and photosynthesis in water-stressed plants: crop water-use efficiency, growth and yield. <i>Plant, Cell and Environment</i> , 2015, 38, 1785-1793.	2.8	195
40	Species differences in stomatal control of water loss at the canopy scale in a mature bottomland deciduous forest. <i>Advances in Water Resources</i> , 2003, 26, 1267-1278.	1.7	190
41	Relationship between plant hydraulic and biochemical properties derived from a steady-state coupled water and carbon transport model. <i>Plant, Cell and Environment</i> , 2003, 26, 339-350.	2.8	186
42	An evaluation of models for partitioning eddy covariance-measured net ecosystem exchange into photosynthesis and respiration. <i>Agricultural and Forest Meteorology</i> , 2006, 141, 2-18.	1.9	186
43	Leaf and canopy responses to elevated CO <sub>2</sub> in a pine forest under free-air CO <sub>2</sub> enrichment. <i>Oecologia</i> , 1995, 104, 139-146.	0.9	182
44	Estimating photosynthetic rate and annual carbon gain in conifers from specific leaf weight and leaf biomass. <i>Oecologia</i> , 1986, 70, 187-193.	0.9	180
45	Time constant for water transport in loblolly pine trees estimated from time series of evaporative demand and stem sapflow. <i>Trees - Structure and Function</i> , 1997, 11, 412.	0.9	171
46	A comparison of daily representations of canopy conductance based on two conditional time-averaging methods and the dependence of daily conductance on environmental factors. <i>Annales Des Sciences Forestières</i> , 1998, 55, 217-235.	1.1	161
47	Hydrologic balance in an intact temperate forest ecosystem under ambient and elevated atmospheric CO <sub>2</sub> concentration. <i>Global Change Biology</i> , 2002, 8, 895-911.	4.2	158
48	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
49	SAP FLUX OF CO-OCCURRING SPECIES IN A WESTERN SUBALPINE FOREST DURING SEASONAL SOIL DROUGHT. <i>Ecology</i> , 2000, 81, 2557-2566.	1.5	154
50	Adjustments in hydraulic architecture of <i>Pinus palustris</i> maintain similar stomatal conductance in xeric and mesic habitats. <i>Plant, Cell and Environment</i> , 2006, 29, 535-545.	2.8	150
51	Sensitivity of mean canopy stomatal conductance to vapor pressure deficit in a flooded <i>Taxodium distichum</i> L. forest: hydraulic and non-hydraulic effects. <i>Oecologia</i> , 2001, 126, 21-29.	0.9	142
52	Estimating the uncertainty in annual net ecosystem carbon exchange: spatial variation in turbulent fluxes and sampling errors in eddy-covariance measurements. <i>Global Change Biology</i> , 2006, 12, 883-896.	4.2	140
53	Interannual Invariability of Forest Evapotranspiration and Its Consequence to Water Flow Downstream. <i>Ecosystems</i> , 2010, 13, 421-436.	1.6	137
54	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010, 5, 034007.	2.2	137

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55	Growth and physiological responses of isohydric and anisohydric poplars to drought. <i>Journal of Experimental Botany</i> , 2015, 66, 4373-4381.	2.4	137
56	Multiscale analysis of vegetation surface fluxes: from seconds to years. <i>Advances in Water Resources</i> , 2001, 24, 1119-1132.	1.7	136
57	Exposure to an enriched CO <sub>2</sub> atmosphere alters carbon assimilation and allocation in a pine forest ecosystem. <i>Global Change Biology</i> , 2003, 9, 1378-1400.	4.2	133
58	Elevated CO <sub>2</sub> affects photosynthetic responses in canopy pine and subcanopy deciduous trees over 10 years: a synthesis from D <sub>2</sub> O FACE. <i>Global Change Biology</i> , 2012, 18, 223-242.	4.2	133
59	Fine root dynamics in a loblolly pine forest are influenced by free-air CO <sub>2</sub> enrichment: a six-year minirhizotron study. <i>Global Change Biology</i> , 2008, 14, 588-602.	4.2	132
60	Acclimation of leaf hydraulic conductance and stomatal conductance of <i>Pinus taeda</i> (loblolly) to N-fertilization. <i>Plant, Cell and Environment</i> , 2009, 32, 1500-1512.	2.8	132
61	WATER BALANCE DELINEATES THE SOIL LAYER IN WHICH MOISTURE AFFECTS CANOPY CONDUCTANCE. , 1998, 8, 990-1002.		131
62	Variability in net ecosystem exchange from hourly to inter-annual time scales at adjacent pine and hardwood forests: a wavelet analysis. <i>Tree Physiology</i> , 2005, 25, 887-902.	1.4	129
63	Performance of two <i>Picea abies</i> (L.) Karst. stands at different stages of decline. <i>Oecologia</i> , 1988, 75, 25-37.	0.9	127
64	Finite element tree crown hydrodynamics model (FETCH) using porous media flow within branching elements: A new representation of tree hydrodynamics. <i>Water Resources Research</i> , 2005, 41, .	1.7	123
65	Stomatal sensitivity to vapor pressure deficit and its relationship to hydraulic conductance in <i>Pinus palustris</i> . <i>Tree Physiology</i> , 2004, 24, 561-569.	1.4	118
66	Imaging Radar for Ecosystem Studies. <i>BioScience</i> , 1995, 45, 715-723.	2.2	115
67	Nocturnal evapotranspiration in eddy-covariance records from three co-located ecosystems in the Southeastern U.S.: Implications for annual fluxes. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1491-1504.	1.9	112
68	Spatial Variability of Turbulent Fluxes in the Roughness Sublayer of an Even-Aged Pine Forest. <i>Boundary-Layer Meteorology</i> , 1999, 93, 1-28.	1.2	111
69	Mean canopy stomatal conductance responses to water and nutrient availabilities in <i>Picea abies</i> and <i>Pinus taeda</i> . <i>Tree Physiology</i> , 2001, 21, 841-850.	1.4	110
70	Aboveground sink strength in forests controls the allocation of carbon below ground and its [CO <sub>2</sub> ]-induced enhancement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19362-19367.	3.3	109
71	Reduction of forest floor respiration by fertilization on both carbon dioxide-enriched and reference 17-year-old loblolly pine stands. <i>Global Change Biology</i> , 2003, 9, 849-861.	4.2	108
72	Temporal dynamics and spatial variability in the enhancement of canopy leaf area under elevated atmospheric CO <sub>2</sub> . <i>Global Change Biology</i> , 2007, 13, 2479-2497.	4.2	107

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73	Net ecosystem exchange of grassland in contrasting wet and dry years. <i>Agricultural and Forest Meteorology</i> , 2006, 139, 323-334.	1.9	101
74	The space-time continuum: the effects of elevated $\text{CO}_2$ and temperature on trees and the importance of scaling. <i>Plant, Cell and Environment</i> , 2015, 38, 991-1007.	2.8	100
75	Latent and sensible heat flux predictions from a uniform pine forest using surface renewal and flux variance methods. <i>Boundary-Layer Meteorology</i> , 1996, 80, 249-282.	1.2	96
76	Contrasting responses to drought of forest floor $\text{CO}_2$ efflux in a Loblolly pine plantation and a nearby Oak-Hickory forest. <i>Global Change Biology</i> , 2005, 11, 421-434.	4.2	95
77	Comprehensive ecosystem model-data synthesis using multiple data sets at two temperate forest free-air $\text{CO}_2$ enrichment experiments: Model performance at ambient $\text{CO}_2$ concentration. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 937-964.	1.3	95
78	Canopy leaf area constrains $[\text{CO}_2]$ -induced enhancement of productivity and partitioning among aboveground carbon pools. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19356-19361.	3.3	94
79	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
80	Uptake of water and solutes through twigs of <i>Picea abies</i> (L.) Karst. <i>Trees - Structure and Function</i> , 1989, 3, 33.	0.9	91
81	Variable conductivity and embolism in roots and branches of four contrasting tree species and their impacts on whole-plant hydraulic performance under future atmospheric $\text{CO}_2$ concentration. <i>Tree Physiology</i> , 2010, 30, 1001-1015.	1.4	91
82	Modeling $\text{CO}_2$ and water vapor turbulent flux distributions within a forest canopy. <i>Journal of Geophysical Research</i> , 2000, 105, 26333-26351.	3.3	90
83	Are ecosystem carbon inputs and outputs coupled at short time scales? A case study from adjacent pine and hardwood forests using impulse-response analysis. <i>Plant, Cell and Environment</i> , 2007, 30, 700-710.	2.8	89
84	A Lagrangian dispersion model for predicting $\text{CO}_2$ sources, sinks, and fluxes in a uniform loblolly pine ( <i>Pinus taeda</i> L.) stand. <i>Journal of Geophysical Research</i> , 1997, 102, 9309-9321.	3.3	88
85	Performance of two <i>Picea abies</i> (L.) Karst. stands at different stages of decline. <i>Oecologia</i> , 1988, 76, 513-518.	0.9	87
86	CARRY-OVER EFFECTS OF WATER AND NUTRIENT SUPPLY ON WATER USE OF <i>PINUS TAEDA</i> . , 1999, 9, 513-525.		87
87	Role of vegetation in determining carbon sequestration along ecological succession in the southeastern United States. <i>Global Change Biology</i> , 2008, 14, 1409-1427.	4.2	87
88	A comparison of sap flow and eddy fluxes of water vapor from a boreal deciduous forest. <i>Journal of Geophysical Research</i> , 1997, 102, 28929-28937.	3.3	85
89	The carbon bonus of organic nitrogen enhances nitrogen use efficiency of plants. <i>Plant, Cell and Environment</i> , 2017, 40, 25-35.	2.8	83
90	Temporal variability in $\delta^{13}\text{C}$ of respired $\text{CO}_2$ in a pine and a hardwood forest subject to similar climatic conditions. <i>Oecologia</i> , 2005, 142, 57-69.	0.9	82

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91	Abundance and community structure of ammonia-oxidizing bacteria and archaea in a temperate forest ecosystem under ten-years elevated CO <sub>2</sub> . <i>Soil Biology and Biochemistry</i> , 2012, 46, 163-171.	4.2	81
92	Multiscale model intercomparisons of CO <sub>2</sub> and H <sub>2</sub> O exchange rates in a maturing southeastern US pine forest. <i>Global Change Biology</i> , 2006, 12, 1189-1207.	4.2	80
93	Inter-annual variability of precipitation constrains the production response of boreal <i>Pinus sylvestris</i> to nitrogen fertilization. <i>Forest Ecology and Management</i> , 2015, 348, 31-45.	1.4	79
94	Temporal patterns of water flux in trees and lianas in a Panamanian moist forest. <i>Trees - Structure and Function</i> , 1999, 14, 0116.	0.9	78
95	Baseliner: An open-source, interactive tool for processing sap flux data from thermal dissipation probes. <i>SoftwareX</i> , 2016, 5, 139-143.	1.2	77
96	Modelling the limits on the response of net carbon exchange to fertilization in a south-eastern pine forest. <i>Plant, Cell and Environment</i> , 2002, 25, 1095-1120.	2.8	76
97	Actual and potential transpiration and carbon assimilation in an irrigated poplar plantation. <i>Tree Physiology</i> , 2008, 28, 559-577.	1.4	76
98	Stochastic Dynamics of Plant-Water Interactions. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2007, 38, 767-791.	3.8	72
99	Forest fine root production and nitrogen use under elevated CO <sub>2</sub> : contrasting responses in evergreen and deciduous trees explained by a common principle. <i>Global Change Biology</i> , 2009, 15, 132-144.	4.2	72
100	Performance of two <i>Picea abies</i> (L.) Karst. stands at different stages of decline. <i>Oecologia</i> , 1988, 77, 7-13.	0.9	70
101	Transpiration in Upper Amazonia Floodplain and Upland Forests in Response to Drought-Breaking Rains. <i>Ecology</i> , 1996, 77, 968-973.	1.5	70
102	The relationship between reference canopy conductance and simplified hydraulic architecture. <i>Advances in Water Resources</i> , 2009, 32, 809-819.	1.7	70
103	INTRA- AND INTER-ANNUAL VARIATION IN TRANSPIRATION OF A PINE FOREST. , 2001, 11, 385-396.		69
104	Greater carbon allocation to mycorrhizal fungi reduces tree nitrogen uptake in a boreal forest. <i>Ecology</i> , 2016, 97, 1012-1022.	1.5	68
105	Decadal biomass increment in early secondary succession woody ecosystems is increased by CO <sub>2</sub> enrichment. <i>Nature Communications</i> , 2019, 10, 454.	5.8	68
106	The porous media model for the hydraulic system of a conifer tree: Linking sap flux data to transpiration rate. <i>Ecological Modelling</i> , 2006, 191, 447-468.	1.2	67
107	Performance of two <i>Picea abies</i> (L.) Karst. stands at different stages of decline. <i>Oecologia</i> , 1988, 77, 1-6.	0.9	65
108	Mycorrhizal and rhizomorph dynamics in a loblolly pine forest during 5 years of free-air CO <sub>2</sub> enrichment. <i>Global Change Biology</i> , 2008, 14, 1252-1264.	4.2	65

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109	Global transpiration data from sap flow measurements: the SAPFLUXNET database. <i>Earth System Science Data</i> , 2021, 13, 2607-2649.	3.7	65
110	Evaluating the type and state of Alaska taiga forests with imaging radar for use in ecosystem models. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1994, 32, 353-370.	2.7	64
111	Soil water depletion by oak trees and the influence of root water uptake on the moisture content spatial statistics. <i>Water Resources Research</i> , 1997, 33, 611-623.	1.7	64
112	Estimation of long-term basin scale evapotranspiration from streamflow time series. <i>Water Resources Research</i> , 2010, 46, .	1.7	64
113	Leaf Area Dynamics of Conifer Forests. , 1995, , 181-223.		62
114	Increases in atmospheric CO <sub>2</sub> have little influence on transpiration of a temperate forest canopy. <i>New Phytologist</i> , 2015, 205, 518-525.	3.5	61
115	Modelling Vegetation-Atmosphere Co <sub>2</sub> Exchange By A Coupled Eulerian-Lagrangian Approach. <i>Boundary-Layer Meteorology</i> , 2000, 95, 91-122.	1.2	60
116	Winter and spring thaw as observed with imaging radar at BOREAS. <i>Journal of Geophysical Research</i> , 1997, 102, 29673-29684.	3.3	59
117	Estimation of light interception properties of conifer shoots by an improved photographic method and a 3D model of shoot structure. <i>Tree Physiology</i> , 2007, 27, 1375-1387.	1.4	55
118	Spatiotemporal variation of crown-scale stomatal conductance in an arid <i>Vitis vinifera</i> L. cv. Merlot vineyard: direct effects of hydraulic properties and indirect effects of canopy leaf area. <i>Tree Physiology</i> , 2012, 32, 262-279.	1.4	55
119	The hysteresis response of soil CO <sub>2</sub> concentration and soil respiration to soil temperature. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1605-1618.	1.3	55
120	Time series diagnosis of tree hydraulic characteristics. <i>Tree Physiology</i> , 2004, 24, 879-890.	1.4	54
121	Alu Exonization Events Reveal Features Required for Precise Recognition of Exons by the Splicing Machinery. <i>PLoS Computational Biology</i> , 2009, 5, e1000300.	1.5	54
122	The effects of elevated CO <sub>2</sub> and nitrogen fertilization on stomatal conductance estimated from 11 years of scaled sap flux measurements at Duke FACE. <i>Tree Physiology</i> , 2013, 33, 135-151.	1.4	54
123	Relationships between foliage and conducting xylem in <i>Picea abies</i> (L.) Karst.. <i>Trees - Structure and Function</i> , 1986, 1, 61.	0.9	53
124	Interaction of ice storms and management practices on current carbon sequestration in forests with potential mitigation under future CO <sub>2</sub> atmosphere. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	50
125	Greater seed production in elevated CO <sub>2</sub> is not accompanied by reduced seed quality in <i>Pinus taeda</i> L.. <i>Global Change Biology</i> , 2010, 16, 1046-1056.	4.2	50
126	Quantification of insect nitrogen utilization by the venus fly trap <i>Dionaea muscipula</i> catching prey with highly variable isotope signatures. <i>Journal of Experimental Botany</i> , 2001, 52, 1041-1049.	2.4	49



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127	Modelling night-time ecosystem respiration by a constrained source optimization method. <i>Global Change Biology</i> , 2002, 8, 124-141.	4.2	49
128	Elevated carbon dioxide does not affect average canopy stomatal conductance of <i>Pinus taeda</i> L.. <i>Oecologia</i> , 1998, 117, 47-52.	0.9	48
129	Fertilization effects on mean stomatal conductance are mediated through changes in the hydraulic attributes of mature Norway spruce trees. <i>Tree Physiology</i> , 2008, 28, 579-596.	1.4	46
130	Challenges in elevated CO <sub>2</sub> experiments on forests. <i>Trends in Plant Science</i> , 2010, 15, 5-10.	4.3	46
131	Chlorophyll and nutrient relationships identify nutritionally caused decline in <i>Picea abies</i> stands. <i>Canadian Journal of Forest Research</i> , 1993, 23, 1187-1195.	0.8	45
132	Modeling Seed Dispersal Distances: Implications For Transgenic <i>Pinus Taeda</i> . , 2006, 16, 117-124.		44
133	Ecohydrological controls on summertime convective rainfall triggers. <i>Global Change Biology</i> , 2007, 13, 887-896.	4.2	44
134	Performance of two <i>Picea abies</i> (L.) Karst. stands at different stages of decline. <i>Oecologia</i> , 1988, 76, 519-524.	0.9	43
135	Response Mechanisms of Conifers to Air Pollutants. , 1995, , 255-308.		40
136	Effects of hydraulic architecture and spatial variation in light on mean stomatal conductance of tree branches and crowns. <i>Plant, Cell and Environment</i> , 2007, 30, 483-496.	2.8	40
137	Boreal forest biomass accumulation is not increased by two decades of soil warming. <i>Nature Climate Change</i> , 2019, 9, 49-52.	8.1	40
138	Ecophysiological variation of transpiration of pine forests: synthesis of new and published results. <i>Ecological Applications</i> , 2017, 27, 118-133.	1.8	38
139	Analysis of the sensitivity of absorbed light and incident light profile to various canopy architecture and stand conditions. <i>Tree Physiology</i> , 2011, 31, 30-47.	1.4	36
140	Estimating minimum mean canopy stomatal conductance for use in models. <i>Canadian Journal of Forest Research</i> , 2001, 31, 198-207.	0.8	35
141	Modeling nighttime ecosystem respiration from measured CO <sub>2</sub> concentration and air temperature profiles using inverse methods. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	34
142	The Spatial Factor, Rather than Elevated CO <sub>2</sub> , Controls the Soil Bacterial Community in a Temperate Forest Ecosystem. <i>Applied and Environmental Microbiology</i> , 2010, 76, 7429-7436.	1.4	33
143	Spatial and temporal variability of soil CO <sub>2</sub> efflux in three proximate temperate forest ecosystems. <i>Agricultural and Forest Meteorology</i> , 2013, 171-172, 256-269.	1.9	32
144	Impact of elevated atmospheric CO <sub>2</sub> on forest floor respiration in a temperate pine forest. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	1.9	30

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146	Response to $\text{CO}_2$ enrichment of understory vegetation in the shade of forests. <i>Global Change Biology</i> , 2016, 22, 944-956.	4.2	29
147	How well do stomatal conductance models perform on closing plant carbon budgets? A test using seedlings grown under current and elevated air temperatures. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	28
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149	The effects of elevated atmospheric $\text{CO}_2$ and nitrogen amendments on subsurface $\text{CO}_2$ production and concentration dynamics in a maturing pine forest. <i>Biogeochemistry</i> , 2009, 94, 271-287.	1.7	27
150	Trenching reduces soil heterotrophic activity in a loblolly pine ( <i>Pinus taeda</i> ) forest exposed to elevated atmospheric $[\text{CO}_2]$ and N fertilization. <i>Agricultural and Forest Meteorology</i> , 2012, 165, 43-52.	1.9	27
151	Changing Seasonal Rainfall Distribution With Climate Directs Contrasting Impacts at Evapotranspiration and Water Yield in the Western Mediterranean Region. <i>Earth's Future</i> , 2018, 6, 841-856.	2.4	26
152	Photosynthetic refixation varies along the stem and reduces $\text{CO}_2$ efflux in mature boreal <i>Pinus sylvestris</i> trees. <i>Tree Physiology</i> , 2018, 38, 558-569.	1.4	24
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154	Energy, water, and carbon fluxes in a loblolly pine stand: Results from uniform and gappy canopy models with comparisons to eddy flux data. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	22
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157	How well do growing season dynamics of photosynthetic capacity correlate with leaf biochemistry and climate fluctuations?. <i>Tree Physiology</i> , 2017, 37, 879-888.	1.4	21
158	Partitioning growing season water balance within a forested boreal catchment using sap flux, eddy covariance, and a process-based model. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 2999-3014.	1.9	21
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161	Anatomical changes with needle length are correlated with leaf structural and physiological traits across five <i>Pinus</i> species. <i>Plant, Cell and Environment</i> , 2019, 42, 1690-1704.	2.8	20
162	Water and Nutrient Acquisition by Roots and Canopies. , 1995, , 39-74.		18

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164	Fixed and variable components of evapotranspiration in a Mediterranean wild-olive - grass landscape mosaic. <i>Agricultural and Forest Meteorology</i> , 2020, 280, 107769.	1.9	17
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177	Estimating canopy gross primary production by combining phloem stable isotopes with canopy and mesophyll conductances. <i>Plant, Cell and Environment</i> , 2020, 43, 2124-2142.	2.8	11
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179	Limited vertical CO <sub>2</sub> transport in stems of mature boreal <i>Pinus sylvestris</i> trees. <i>Tree Physiology</i> , 2021, 41, 63-75.	1.4	11
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182	Mechanisms for minimizing height-related stomatal conductance declines in tall vines. <i>Plant, Cell and Environment</i> , 2019, 42, 3121-3139.	2.8	7
183	Rhizosphere water content drives hydraulic redistribution: Implications of pore-scale heterogeneity to modeling diurnal transpiration in water-limited ecosystems. <i>Agricultural and Forest Meteorology</i> , 2022, 312, 108720.	1.9	7
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