

Dan Yakir

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

7,420
citations

109264

35
h-index

91828

69
g-index

80
all docs

80
docs citations

80
times ranked

8632
citing authors

#	ARTICLE	IF	CITATIONS
1	On the separation of net ecosystem exchange into assimilation and ecosystem respiration: review and improved algorithm. <i>Global Change Biology</i> , 2005, 11, 1424-1439.	4.2	2,778
2	Modeling temporal and large-scale spatial variability of soil respiration from soil water availability, temperature and vegetation productivity indices. <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	1.9	501
3	Contribution of Semi-Arid Forests to the Climate System. <i>Science</i> , 2010, 327, 451-454.	6.0	491
4	Fluxes of CO ₂ and water between terrestrial vegetation and the atmosphere estimated from isotope measurements. <i>Nature</i> , 1996, 380, 515-517.	13.7	296
5	Internal Conductance to CO ₂ Diffusion and C ¹⁸ O Discrimination in C ₃ Leaves. <i>Plant Physiology</i> , 2000, 123, 201-214.	2.3	172
6	Using stable isotopes of water in evapotranspiration studies. <i>Hydrological Processes</i> , 2000, 14, 1407-1421.	1.1	157
7	A coupled model of the global cycles of carbonyl sulfide and CO ₂ : A possible new window on the carbon cycle. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 842-852.	1.3	149
8	Ecosystem photosynthesis inferred from measurements of carbonyl sulphide flux. <i>Nature Geoscience</i> , 2013, 6, 186-190.	5.4	137
9	Hydraulic adjustments underlying drought resistance of <i>Pinus halepensis</i> . <i>Tree Physiology</i> , 2011, 31, 637-648.	1.4	136
10	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
11	Physiology-phenology interactions in a productive semi-arid pine forest. <i>New Phytologist</i> , 2008, 178, 603-616.	3.5	123
12	Relationships between carbonyl sulfide (COS) and CO ₂ during leaf gas exchange. <i>New Phytologist</i> , 2010, 186, 869-878.	3.5	110
13	Differential ecophysiological response of a major Mediterranean pine species across a climatic gradient. <i>Tree Physiology</i> , 2013, 33, 26-36.	1.4	102
14	Respiration acclimation contributes to high carbon-use efficiency in a seasonally dry pine forest. <i>Global Change Biology</i> , 2008, 14, 1553-1567.	4.2	101
15	Non-climatic variations in the oxygen isotopic compositions of plants. <i>Global Change Biology</i> , 1998, 4, 835-849.	4.2	99
16	The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021, 598, 468-472.	13.7	99
17	Reviews and syntheses: Carbonyl sulfide as a multi-scale tracer for carbon and water cycles. <i>Biogeosciences</i> , 2018, 15, 3625-3657.	1.3	98
18	Ecohydrology of a semi-arid forest: partitioning among water balance components and its implications for predicted precipitation changes. <i>Ecohydrology</i> , 2010, 3, 143-154.	1.1	93

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19	Seasonal variations in the isotopic composition of near-surface water vapour in the eastern Mediterranean. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 674.	0.8	83
20	Distinct patterns of changes in surface energy budget associated with forestation in the semiarid region. <i>Global Change Biology</i> , 2011, 17, 1536-1548.	4.2	78
21	Large-scale semi-arid afforestation can enhance precipitation and carbon sequestration potential. <i>Scientific Reports</i> , 2018, 8, 996.	1.6	78
22	The effect of spatial resolution on the accuracy of leaf area index estimation for a forest planted in the desert transition zone. <i>Remote Sensing of Environment</i> , 2007, 109, 416-428.	4.6	77
23	Towards an advanced assessment of the hydrological vulnerability of forests to climate change-induced drought. <i>New Phytologist</i> , 2014, 201, 712-716.	3.5	76
24	Resilience to seasonal heat wave episodes in a Mediterranean pine forest. <i>New Phytologist</i> , 2016, 210, 485-496.	3.5	74
25	Quantifying transpirable soil water and its relations to tree water use dynamics in a water-limited pine forest. <i>Ecohydrology</i> , 2014, 7, 409-419.	1.1	69
26	Pan-European $\delta^{13}C$ values of air and organic matter from forest ecosystems. <i>Global Change Biology</i> , 2005, 11, 1065-1093.	4.2	60
27	Impact of Agricultural Land-use Change on Carbon Storage in Boreal Alaska. <i>Global Change Biology</i> , 2004, 10, 452-472.	4.2	59
28	Leaf respiration and alternative oxidase in field-grown alpine grasses respond to natural changes in temperature and light. <i>New Phytologist</i> , 2011, 189, 1027-1039.	3.5	57
29	Secondary circulations at a solitary forest surrounded by semi-arid shrubland and their impact on eddy-covariance measurements. <i>Agricultural and Forest Meteorology</i> , 2015, 211-212, 115-127.	1.9	57
30	Field evaluation of cotton near-isogenic lines introgressed with QTLs for productivity and drought related traits. <i>Molecular Breeding</i> , 2009, 23, 179-195.	1.0	55
31	Association between Carbonyl Sulfide Uptake and $\delta^{18}O$ during Gas Exchange in C_3 and C_4 Leaves. <i>Plant Physiology</i> , 2011, 157, 509-517.	2.3	49
32	Mortality versus survival in drought-affected Aleppo pine forest depends on the extent of rock cover and soil stoniness. <i>Functional Ecology</i> , 2019, 33, 901-912.	1.7	48
33	Effects of Carbonyl Sulfide and Carbonic Anhydrase on Stomatal Conductance. <i>Plant Physiology</i> , 2012, 158, 524-530.	2.3	44
34	Water limitation to soil CO_2 efflux in a pine forest at the semiarid <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	42
35	Differential Impacts of Land Use and Precipitation on <i>Ecosystem Water Yield</i> , <i>Water Resources Research</i> , 2018, 54, 5457-5470.	1.7	40
36	Seeking the <i>point of no return</i> in the sequence of events leading to mortality of mature trees. <i>Plant, Cell and Environment</i> , 2021, 44, 1315-1328.	2.8	39

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37	Partitioning evapotranspiration and its long-term evolution in a dry pine forest using measurement-based estimates of soil evaporation. <i>Agricultural and Forest Meteorology</i> , 2020, 281, 107831.	1.9	37
38	Plant invasion of newly exposed hypersaline Dead Sea shores. <i>Nature</i> , 1995, 374, 803-805.	13.7	36
39	Contribution of soil respiration in tropical, temperate, and boreal forests to the ^{18}O enrichment of atmospheric O_2 . <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	1.9	36
40	El Nino and tree growth near Jerusalem over the last 20 years. <i>Global Change Biology</i> , 1996, 2, 97-101.	4.2	33
41	Evidence for large carbon sink and long residence time in semiarid forests based on 15 year flux and inventory records. <i>Global Change Biology</i> , 2020, 26, 1626-1637.	4.2	31
42	Nature-based framework for sustainable afforestation in global drylands under changing climate. <i>Global Change Biology</i> , 2022, 28, 2202-2220.	4.2	30
43	Temporal and spatial patterns of soil water following wildfire-induced changes in plant communities in the Great Basin in Nevada, USA. <i>Plant and Soil</i> , 2004, 262, 1-12.	1.8	28
44	Assessment of temporal changes in aboveground forest tree biomass using aerial photographs and allometric equations. <i>Canadian Journal of Forest Research</i> , 2006, 36, 2585-2594.	0.8	27
45	Assessing canopy performance using carbonyl sulfide measurements. <i>Global Change Biology</i> , 2018, 24, 3486-3498.	4.2	25
46	Evidence for efficient nonevaporative leaf-to-air heat dissipation in a pine forest under drought conditions. <i>New Phytologist</i> , 2021, 232, 2254-2266.	3.5	25
47	High precision measurements of atmospheric concentrations and plant exchange rates of carbonyl sulfide using mid-IR quantum cascade laser. <i>Global Change Biology</i> , 2010, 16, 2496-2503.	4.2	24
48	Global enzymes: Sphere of influence. <i>Nature</i> , 2002, 416, 795-795.	13.7	23
49	The importance of tree internal water storage under drought conditions. <i>Tree Physiology</i> , 2022, 42, 771-783.	1.4	23
50	Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. <i>Global Ecology and Biogeography</i> , 2019, 28, 1351-1365.	2.7	22
51	Springtime ecosystem-scale monoterpene fluxes from Mediterranean pine forests across a precipitation gradient. <i>Agricultural and Forest Meteorology</i> , 2017, 237-238, 150-159.	1.9	15
52	Differential responses to two heatwave intensities in a Mediterranean citrus orchard are identified by combining measurements of fluorescence and carbonyl sulfide (COS) and CO_2 uptake. <i>New Phytologist</i> , 2021, 230, 1394-1406.	3.5	14
53	Effect of Surface Heterogeneity on the Boundary-Layer Height: A Case Study at a Semi-Arid Forest. <i>Boundary-Layer Meteorology</i> , 2018, 169, 233-250.	1.2	13
54	Quantification of leaf-scale light energy allocation and photoprotection processes in a Mediterranean pine forest under extensive seasonal drought. <i>Tree Physiology</i> , 2019, 39, 1767-1782.	1.4	13

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55	Method for accurate measurement of infrared emissivity for opaque low-reflectance materials. <i>Applied Optics</i> , 2019, 58, 4599.	0.9	13
56	Systematic errors in the measurement of emissivity caused by directional effects. <i>Applied Optics</i> , 2003, 42, 1839.	2.1	12
57	Effect of Secondary Circulations on the Surface–Atmosphere Exchange of Energy at an Isolated Semi-arid Forest. <i>Boundary-Layer Meteorology</i> , 2018, 169, 209-232.	1.2	11
58	Bark Transpiration Rates Can Reach Needle Transpiration Rates Under Dry Conditions in a Semi-arid Forest. <i>Frontiers in Plant Science</i> , 2021, 12, 790684.	1.7	9
59	<i>In situ</i> , direct observation of seasonal embolism dynamics in Aleppo pine trees growing on the dry edge of their distribution. <i>New Phytologist</i> , 2022, 235, 1344-1350.	3.5	9
60	Partitioning of canopy and soil CO ₂ fluxes in a pine forest at the dry timberline across a 13-year observation period. <i>Biogeosciences</i> , 2020, 17, 699-714.	1.3	8
61	Leaf relative uptake of carbonyl sulfide to CO ₂ seen through the lens of stomatal conductance–photosynthesis coupling. <i>New Phytologist</i> , 2022, 235, 1729-1742.	3.5	8
62	“Dual-reference” method for high-precision infrared measurement of leaf surface temperature under field conditions. <i>New Phytologist</i> , 2021, 232, 2535-2546.	3.5	7
63	Long-term fluxes of carbonyl sulfide and their seasonality and interannual variability in a boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2569-2584.	1.9	7
64	Assessing climatic benefits from forestation potential in semi-arid lands. <i>Environmental Research Letters</i> , 2021, 16, 104039.	2.2	6
65	Ecophysiological adjustments of a pine forest to enhance early spring activity in hot and dry climate. <i>Environmental Research Letters</i> , 2020, 15, 114054.	2.2	6
66	Soil–atmosphere exchange of carbonyl sulfide in a Mediterranean citrus orchard. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3873-3883.	1.9	4
67	Assessing model performance via the most limiting environmental driver in two differently stressed pine stands. <i>Ecological Applications</i> , 2021, 31, e02312.	1.8	4
68	Contrasting turbulent transport regimes explain cooling effect in a semi-arid forest compared to surrounding shrubland. <i>Agricultural and Forest Meteorology</i> , 2019, 269-270, 19-27.	1.9	3
69	Ecophysiology of an urban citrus orchard. <i>Urban Forestry and Urban Greening</i> , 2021, 65, 127361.	2.3	1
70	Foreword by the Guest Editors: Environmental Chemistry. <i>Israel Journal of Chemistry</i> , 2002, 42, NA-NA.	1.0	0
71	Carbon and Energy Balance of Dry Mediterranean Pine Forests: A Case Study. <i>Managing Forest Ecosystems</i> , 2021, , 279-301.	0.4	0