Dan Yakir

List of Publications by Year
in descending order

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71 papers	7,420 citations	125106 35 h-index	104191 69 g-index
80 all docs	80 docs citations	80 times ranked	9742 citing authors

#	Article	IF	Citations
1	Seasonal variations in the isotopic composition of near-surface water vapour in the eastern Mediterranean. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 674.	0.8	83
2	The importance of tree internal water storage under drought conditions. Tree Physiology, 2022, 42, 771-783.	1.4	23
3	Natureâ€based framework for sustainable afforestation in global drylands under changing climate. Global Change Biology, 2022, 28, 2202-2220.	4.2	30
4	Long-term fluxes of carbonyl sulfide and their seasonality and interannual variability in a boreal forest. Atmospheric Chemistry and Physics, 2022, 22, 2569-2584.	1.9	7
5	Leaf relative uptake of carbonyl sulfide to CO₂ seen through the lens of stomatal conductanceâ€“photosynthesis coupling. New Phytologist, 2022, 235, 1729-1742.	3.5	8
6	In situ, direct observation of seasonal embolism dynamics in Aleppo pine trees growing on the dry edge of their distribution. New Phytologist, 2022, 235, 1344-1350.	3.5	9
7	Seeking the â€œpoint of no returnâ€• in the sequence of events leading to mortality of mature trees. Plant, Cell and Environment, 2021, 44, 1315-1328.	2.8	39
8	Differential responses to two heatwave intensities in a Mediterranean citrus orchard are identified by combining measurements of fluorescence and carbonyl sulfide (COS) and CO₂ uptake. New Phytologist, 2021, 230, 1394-1406.	3.5	14
9	Assessing model performance via the most limiting environmental driver in two differently stressed pine stands. Ecological Applications, 2021, 31, e02312.	1.8	4
10	The three major axes of terrestrial ecosystem function. Nature, 2021, 598, 468-472.	13.7	99
11	Assessing climatic benefits from forestation potential in semi-arid lands. Environmental Research Letters, 2021, 16, 104039.	2.2	6
12	â€˜Dualâ€referenceâ€™ method for highâ€precision infrared measurement of leaf surface temperature under field conditions. New Phytologist, 2021, 232, 2535-2546.	3.5	7
13	Evidence for efficient nonevaporative leafâ€toâ€air heat dissipation in a pine forest under drought conditions. New Phytologist, 2021, 232, 2254-2266.	3.5	25
14	Ecophysiology of an urban citrus orchard. Urban Forestry and Urban Greening, 2021, 65, 127361.	2.3	1
15	Carbon and Energy Balance of Dry Mediterranean Pine Forests: A Case Study. Managing Forest Ecosystems, 2021, , 279-301.	0.4	0
16	Bark Transpiration Rates Can Reach Needle Transpiration Rates Under Dry Conditions in a Semi-arid Forest. Frontiers in Plant Science, 2021, 12, 790684.	1.7	9
17	Partitioning evapotranspiration and its long-term evolution in a dry pine forest using measurement-based estimates of soil evaporation. Agricultural and Forest Meteorology, 2020, 281, 107831.	1.9	37
18	Evidence for large carbon sink and long residence time in semiarid forests based on 15 year flux and inventory records. Global Change Biology, 2020, 26, 1626-1637.	4.2	31

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19	Partitioning of canopy and soil CO₂ fluxes in a pine forest at the dry timberline across a 13-year observation period. Biogeosciences, 2020, 17, 699-714.	1.3	8
20	Ecophysiological adjustments of a pine forest to enhance early spring activity in hot and dry climate. Environmental Research Letters, 2020, 15, 114054.	2.2	6
21	Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. Global Ecology and Biogeography, 2019, 28, 1351-1365.	2.7	22
22	Quantification of leaf-scale light energy allocation and photoprotection processes in a Mediterranean pine forest under extensive seasonal drought. Tree Physiology, 2019, 39, 1767-1782.	1.4	13
23	Soilâ€“atmosphere exchange of carbonyl sulfide in a Mediterranean citrus orchard. Atmospheric Chemistry and Physics, 2019, 19, 3873-3883.	1.9	4
24	Contrasting turbulent transport regimes explain cooling effect in a semi-arid forest compared to surrounding shrubland. Agricultural and Forest Meteorology, 2019, 269-270, 19-27.	1.9	3
25	Mortality versus survival in droughtâ€affected Aleppo pine forest depends on the extent of rock cover and soil stoniness. Functional Ecology, 2019, 33, 901-912.	1.7	48
26	Method for accurate measurement of infrared emissivity for opaque low-reflectance materials. Applied Optics, 2019, 58, 4599.	0.9	13
27	Large-scale semi-arid afforestation can enhance precipitation and carbon sequestration potential. Scientific Reports, 2018, 8, 996.	1.6	78
28	Assessing canopy performance using carbonyl sulfide measurements. Global Change Biology, 2018, 24, 3486-3498.	4.2	25
29	Differential Impacts of Land Use and Precipitation on â€œEcosystem Water Yieldâ€• Water Resources Research, 2018, 54, 5457-5470.	1.7	40
30	Reviews and syntheses: Carbonyl sulfide as aÂmulti-scale tracer for carbon and water cycles. Biogeosciences, 2018, 15, 3625-3657.	1.3	98
31	Effect of Surface Heterogeneity on the Boundary-Layer Height: A Case Study at a Semi-Arid Forest. Boundary-Layer Meteorology, 2018, 169, 233-250.	1.2	13
32	Effect of Secondary Circulations on the Surfaceâ€“Atmosphere Exchange of Energy at an Isolated Semi-arid Forest. Boundary-Layer Meteorology, 2018, 169, 209-232.	1.2	11
33	Springtime ecosystem-scale monoterpene fluxes from Mediterranean pine forests across a precipitation gradient. Agricultural and Forest Meteorology, 2017, 237-238, 150-159.	1.9	15
34	Resilience to seasonal heat wave episodes in a Mediterranean pine forest. New Phytologist, 2016, 210, 485-496.	3.5	74
35	Secondary circulations at a solitary forest surrounded by semi-arid shrubland and their impact on eddy-covariance measurements. Agricultural and Forest Meteorology, 2015, 211-212, 115-127.	1.9	57
36	Quantifying transpirable soil water and its relations to tree water use dynamics in a waterâ€limited pine forest. Ecohydrology, 2014, 7, 409-419.	1.1	69

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37	Towards an advanced assessment of the hydrological vulnerability of forests to climate changeâ€induced drought. New Phytologist, 2014, 201, 712-716.	3.5	76
38	A coupled model of the global cycles of carbonyl sulfide and CO₂: A possible new window on the carbon cycle. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 842-852.	1.3	149
39	Differential ecophysiological response of a major Mediterranean pine species across a climatic gradient. Tree Physiology, 2013, 33, 26-36.	1.4	102
40	Ecosystem photosynthesis inferred from measurements of carbonyl sulphide flux. Nature Geoscience, 2013, 6, 186-190.	5.4	137
41	Effects of Carbonyl Sulfide and Carbonic Anhydrase on Stomatal Conductance. Plant Physiology, 2012, 158, 524-530.	2.3	44
42	Hydraulic adjustments underlying drought resistance of Pinus halepensis. Tree Physiology, 2011, 31, 637-648.	1.4	136
43	Distinct patterns of changes in surface energy budget associated with forestation in the semiarid region. Global Change Biology, 2011, 17, 1536-1548.	4.2	78
44	Leaf respiration and alternative oxidase in fieldâ€grown alpine grasses respond to natural changes in temperature and light. New Phytologist, 2011, 189, 1027-1039.	3.5	57
45	Association between Carbonyl Sulfide Uptake and ¹⁸Î” during Gas Exchange in C₃ and C₄ Leaves. Plant Physiology, 2011, 157, 509-517.	2.3	49
46	Ecohydrology of a semiâ€arid forest: partitioning among water balance components and its implications for predicted precipitation changes. Ecohydrology, 2010, 3, 143-154.	1.1	93
47	High precision measurements of atmospheric concentrations and plant exchange rates of carbonyl sulfide using midâ€IR quantum cascade laser. Global Change Biology, 2010, 16, 2496-2503.	4.2	24
48	Relationships between carbonyl sulfide (COS) and CO₂ during leaf gas exchange. New Phytologist, 2010, 186, 869-878.	3.5	110
49	Contribution of Semi-Arid Forests to the Climate System. Science, 2010, 327, 451-454.	6.0	491
50	Field evaluation of cotton near-isogenic lines introgressed with QTLs for productivity and drought related traits. Molecular Breeding, 2009, 23, 179-195.	1.0	55
51	Water limitation to soil CO₂ efflux in a pine forest at the semiarid â€œtimberlineâ€• Journal of Geophysical Research, 2009, 114, .	3.3	42
52	Physiologyâ€“phenology interactions in a productive semiâ€arid pine forest. New Phytologist, 2008, 178, 603-616.	3.5	123
53	Respiration acclimation contributes to high carbonâ€use efficiency in a seasonally dry pine forest. Global Change Biology, 2008, 14, 1553-1567.	4.2	101
54	The effect of spatial resolution on the accuracy of leaf area index estimation for a forest planted in the desert transition zone. Remote Sensing of Environment, 2007, 109, 416-428.	4.6	77

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55	Assessment of temporal changes in aboveground forest tree biomass using aerial photographs and allometric equations. Canadian Journal of Forest Research, 2006, 36, 2585-2594.	0.8	27
56	On the separation of net ecosystem exchange into assimilation and ecosystem respiration: review and improved algorithm. Global Change Biology, 2005, 11, 1424-1439.	4.2	2,778
57	Pan-European delta13C values of air and organic matter from forest ecosystems. Global Change Biology, 2005, 11, 1065-1093.	4.2	60
58	Impact of Agricultural Land-use Change on Carbon Storage in Boreal Alaska. Global Change Biology, 2004, 10, 452-472.	4.2	59
59	Changing the way we think about global change research: scaling up in experimental ecosystem science. Global Change Biology, 2004, 10, 393-407.	4.2	126
60	Temporal and spatial patterns of soil water following wildfire-induced changes in plant communities in the Great Basin in Nevada, USA. Plant and Soil, 2004, 262, 1-12.	1.8	28
61	Modeling temporal and large-scale spatial variability of soil respiration from soil water availability, temperature and vegetation productivity indices. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	1.9	501
62	Contribution of soil respiration in tropical, temperate, and boreal forests to the18O enrichment of atmospheric O2. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	1.9	36
63	Systematic errors in the measurement of emissivity caused by directional effects. Applied Optics, 2003, 42, 1839.	2.1	12
64	Foreword by the Guest Editors: Environmental Chemistry. Israel Journal of Chemistry, 2002, 42, NA-NA.	1.0	0
65	Global enzymes: Sphere of influence. Nature, 2002, 416, 795-795.	13.7	23
66	Using stable isotopes of water in evapotranspiration studies. Hydrological Processes, 2000, 14, 1407-1421.	1.1	157
67	Internal Conductance to CO2 Diffusion and C18OO Discrimination in C3 Leaves. Plant Physiology, 2000, 123, 201-214.	2.3	172
68	Nonâ€climatic variations in the oxygen isotopic compositions of plants. Global Change Biology, 1998, 4, 835-849.	4.2	99
69	El Nino and tree growth near Jerusalem over the last 20 years. Global Change Biology, 1996, 2, 97-101.	4.2	33
70	Fluxes of CO2 and water between terrestrial vegetation and the atmosphere estimated from isotope measurements. Nature, 1996, 380, 515-517.	13.7	296
71	Plant invasion of newly exposed hypersaline Dead Sea shores. Nature, 1995, 374, 803-805.	13.7	36