

Tamir Klein

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

6,625
citations

126907

33
h-index

82547

72
g-index

81
all docs

81
docs citations

81
times ranked

8959
citing authors

#	ARTICLE	IF	CITATIONS
1	Meta-analysis Reveals Different Competition Effects on Tree Growth Resistance and Resilience to Drought. <i>Ecosystems</i> , 2022, 25, 30-43.	3.4	40
2	The effect of elevated CO ₂ on aboveground and belowground carbon allocation and eco-physiology of four species of angiosperm and gymnosperm forest trees. <i>Tree Physiology</i> , 2022, 42, 831-847.	3.1	8
3	Physiological drought resistance mechanisms in wild species vs. rootstocks of almond and plum. <i>Trees - Structure and Function</i> , 2022, 36, 669-683.	1.9	7
4	A hidden mechanism of forest loss under climate change: The role of drought in eliminating forest regeneration at the edge of its distribution. <i>Forest Ecology and Management</i> , 2022, 506, 119966.	3.2	15
5	Ectomycorrhizal fungi mediate belowground carbon transfer between pines and oaks. <i>ISME Journal</i> , 2022, 16, 1420-1429.	9.8	20
6	Conifer desiccation in the 2021 NW heatwave confirms the role of hydraulic damage. <i>Tree Physiology</i> , 2022, 42, 722-726.	3.1	11
7	Mechanisms of woody-plant mortality under rising drought, CO ₂ and vapour pressure deficit. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 294-308.	29.7	163
8	Interannual adjustments in stomatal and leaf morphological traits of European beech (<i>Fagus sylvatica</i>) in response to drought. <i>Tree Physiology</i> , 2022, 42, 1287-1296.	3.8	19
9	Global field observations of tree die-off reveal hotter-drought fingerprint for Earth's forests. <i>Nature Communications</i> , 2022, 13, 1761.	12.8	171
10	Asymmetric belowground carbon transfer in a diverse tree community. <i>Molecular Ecology</i> , 2022, 31, 3481-3495.	3.9	9
11	<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.	7.3	9
12	High exposure of global tree diversity to human pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	18
13	Higher risk for six endemic and endangered <i>Lagochilus</i> species in Central Asia under drying climate. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2021, 48, 125586.	2.7	3
14	Unexpectedly low $\delta^{13}C$ in leaves, branches, stems and roots of three acacia species growing in hyper-arid environments. <i>Journal of Plant Ecology</i> , 2021, 14, 117-131.	2.3	0
15	Tree Forensics: Modern DNA barcoding and traditional anatomy identify roots threatening an ancient necropolis. <i>Plants People Planet</i> , 2021, 3, 211-219.	3.3	2
16	Rapid starch degradation in the wood of olive trees under heat and drought is permitted by three stress-specific beta amylases. <i>New Phytologist</i> , 2021, 229, 1398-1414.	7.3	25
17	Interspecific Soil Water Partitioning as a Driver of Increased Productivity in a Diverse Mixed Mediterranean Forest. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2021, 126, e2021JC006382.	3.0	13
18	Carbon allocation dynamics in conifers and broadleaved tree species revealed by pulse labeling and mass balance. <i>Forest Ecology and Management</i> , 2021, 493, 119258.	3.2	18

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19	Rapid stomatal response in lemon saves trees and their fruit yields under summer desiccation, but fails under recurring droughts. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108487.	4.8	9
20	Mitigating negative effects of long-term treated wastewater irrigation: Leaf gas exchange and water use efficiency response of avocado trees (<i>Persea americana</i> Mill.). <i>Agricultural Water Management</i> , 2021, 256, 107126.	5.6	3
21	A vast increase in heat exposure in the 21st century is driven by global warming and urban population growth. <i>Sustainable Cities and Society</i> , 2021, 73, 103098.	10.4	35
22	Carbon Allocation Dynamics in Mediterranean Pines Under Stress. <i>Managing Forest Ecosystems</i> , 2021, , 117-128.	0.9	0
23	Intraspecific plasticity in hydraulic and stomatal regulation under drought is linked to aridity at the seed source in a wild pear species. <i>Tree Physiology</i> , 2021, 41, 960-973.	3.1	10
24	A race to the unknown: Contemporary research on tree and forest drought resistance, an Israeli perspective. <i>Journal of Arid Environments</i> , 2020, 172, 104045.	2.4	9
25	Exposing the hidden half: root research at the forefront of science. <i>Plant and Soil</i> , 2020, 447, 1-5.	3.7	6
26	Stomatal optimization based on xylem hydraulics (SOX) improves land surface model simulation of vegetation responses to climate. <i>New Phytologist</i> , 2020, 226, 1622-1637.	7.3	95
27	Drought tolerance of wild versus cultivated tree species of almond and plum in the field. <i>Tree Physiology</i> , 2020, 40, 454-466.	3.1	9
28	TRY plant trait database “ enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
29	Tree rings reveal the adverse effect of water pumping on protected riparian <i>Platanus orientalis</i> tree growth. <i>Forest Ecology and Management</i> , 2020, 458, 117784.	3.2	7
30	Physiological effects of mature tree transplanting characterize the roles of the soil-root interface in the field. <i>Agricultural and Forest Meteorology</i> , 2020, 295, 108192.	4.8	2
31	Enhanced root exudation of mature broadleaf and conifer trees in a Mediterranean forest during the dry season. <i>Tree Physiology</i> , 2020, 40, 1595-1605.	3.1	26
32	Editorial: Plant-Soil Interactions Under Changing Climate. <i>Frontiers in Plant Science</i> , 2020, 11, 621235.	3.6	3
33	Intraspecific responses to climate reveal nonintuitive warming impacts on a widespread thermophilic conifer. <i>New Phytologist</i> , 2020, 228, 525-540.	7.3	24
34	Low growth resilience to drought is related to future mortality risk in trees. <i>Nature Communications</i> , 2020, 11, 545.	12.8	228
35	Share the wealth: Trees with greater ectomycorrhizal species overlap share more carbon. <i>Molecular Ecology</i> , 2020, 29, 2321-2333.	3.9	42
36	Drought tolerance mechanisms and aquaporin expression of wild vs. cultivated pear tree species in the field. <i>Environmental and Experimental Botany</i> , 2019, 167, 103832.	4.2	19

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37	Stand density effects on carbon and water fluxes in a semi-arid forest, from leaf to stand-scale. <i>Forest Ecology and Management</i> , 2019, 453, 117573.	3.2	50
38	Increased Nitrogen Availability in the Soil Under Mature <i>Picea abies</i> Trees Exposed to Elevated CO ₂ Concentrations. <i>Frontiers in Forests and Global Change</i> , 2019, 2, .	2.3	14
39	Stomatal sensitivity to CO ₂ diverges between angiosperm and gymnosperm tree species. <i>Functional Ecology</i> , 2019, 33, 1411-1424.	3.6	31
40	Use of thermal imaging to detect evaporative cooling in coniferous and broadleaved tree species of the Mediterranean maquis. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 285-294.	4.8	42
41	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.	3.6	48
42	A nation-wide analysis of tree mortality under climate change: Forest loss and its causes in Israel 1948-2017. <i>Forest Ecology and Management</i> , 2019, 432, 840-849.	3.2	41
43	Elevated CO ₂ compensates for drought effects in lemon saplings via stomatal downregulation, increased soil moisture, and increased wood carbon storage. <i>Environmental and Experimental Botany</i> , 2018, 148, 117-127.	4.2	33
44	Xylem embolism refilling and resilience against drought-induced mortality in woody plants: processes and trade-offs. <i>Ecological Research</i> , 2018, 33, 839-855.	1.5	116
45	Climate change drives tree mortality. <i>Science</i> , 2018, 362, 758-758.	12.6	35
46	Ecotypic variation and stability in growth performance of the thermophilic conifer <i>Pinus halepensis</i> across the Mediterranean basin. <i>Forest Ecology and Management</i> , 2018, 424, 205-215.	3.2	37
47	Tree growth and water-use in hyper-arid <i>Acacia</i> occurs during the hottest and driest season. <i>Oecologia</i> , 2018, 188, 695-705.	2.0	23
48	Early-Warning Signals of Individual Tree Mortality Based on Annual Radial Growth. <i>Frontiers in Plant Science</i> , 2018, 9, 1964.	3.6	117
49	Measuring the effect of plant-community composition on carbon fixation on green roofs. <i>Urban Forestry and Urban Greening</i> , 2017, 24, 1-4.	5.3	16
50	Ecosystem dynamics and management after forest die-off: a global synthesis with conceptual state-transition models. <i>Ecosphere</i> , 2017, 8, e02034.	2.2	56
51	A synthesis of radial growth patterns preceding tree mortality. <i>Global Change Biology</i> , 2017, 23, 1675-1690.	9.5	394
52	Forest GPP Calculation Using Sap Flow and Water Use Efficiency Measurements. <i>Bio-protocol</i> , 2017, 7, e2221.	0.4	3
53	Growth and carbon relations of mature <i>Picea abies</i> trees under 5 years of free-air CO ₂ enrichment. <i>Journal of Ecology</i> , 2016, 104, 1720-1733.	4.0	68
54	Allocation, stress tolerance and carbon transport in plants: how does phloem physiology affect plant ecology?. <i>Plant, Cell and Environment</i> , 2016, 39, 709-725.	5.7	164

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55	Resilience to seasonal heat wave episodes in a Mediterranean pine forest. <i>New Phytologist</i> , 2016, 210, 485-496.	7.3	74
56	Association between sap flow-derived and eddy covariance-derived measurements of forest canopy CO_2 uptake. <i>New Phytologist</i> , 2016, 209, 436-446.	7.3	29
57	Belowground carbon trade among tall trees in a temperate forest. <i>Science</i> , 2016, 352, 342-344.	12.6	182
58	Meta-analysis reveals that hydraulic traits explain cross-species patterns of drought-induced tree mortality across the globe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5024-5029.	7.1	554
59	Coordination between growth, phenology and carbon storage in three coexisting deciduous tree species in a temperate forest. <i>Tree Physiology</i> , 2016, 36, 847-855.	3.1	76
60	The correlations and sequence of plant stomatal, hydraulic, and wilting responses to drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13098-13103.	7.1	362
61	Diurnal dynamics of water transport, storage and hydraulic conductivity in pine trees under seasonal drought. <i>IForest</i> , 2016, 9, 710-719.	1.4	35
62	Water availability predicts forest canopy height at the global scale. <i>Ecology Letters</i> , 2015, 18, 1311-1320.	6.4	87
63	Drought-induced tree mortality: from discrete observations to comprehensive research. <i>Tree Physiology</i> , 2015, 35, 225-228.	3.1	32
64	Tree carbon allocation dynamics determined using a carbon mass balance approach. <i>New Phytologist</i> , 2015, 205, 147-159.	7.3	82
65	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.	2.4	69
66	Drought stress, growth and nonstructural carbohydrate dynamics of pine trees in a semi-arid forest. <i>Tree Physiology</i> , 2014, 34, 981-992.	3.1	136
67	Towards an advanced assessment of the hydrological vulnerability of forests to climate change-induced drought. <i>New Phytologist</i> , 2014, 201, 712-716.	7.3	76
68	The variability of stomatal sensitivity to leaf water potential across tree species indicates a continuum between isohydric and anisohydric behaviours. <i>Functional Ecology</i> , 2014, 28, 1313-1320.	3.6	544
69	Knockdown of the <i>Arabidopsis thaliana</i> chloroplast protein disulfide isomerase 6 results in reduced levels of photoinhibition and increased D_1 synthesis in high light. <i>Plant Journal</i> , 2014, 78, 1003-1013.	5.7	45
70	Relationships between stomatal regulation, water-use, and water-use efficiency of two coexisting key Mediterranean tree species. <i>Forest Ecology and Management</i> , 2013, 302, 34-42.	3.2	105
71	A plant's perspective of extremes: terrestrial plant responses to changing climatic variability. <i>Global Change Biology</i> , 2013, 19, 75-89.	9.5	393
72	Differential ecophysiological response of a major Mediterranean pine species across a climatic gradient. <i>Tree Physiology</i> , 2013, 33, 26-36.	3.1	102

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73	Hydraulic adjustments underlying drought resistance of <i>Pinus halepensis</i> . <i>Tree Physiology</i> , 2011, 31, 637-648.	3.1	136
74	Association between tree-ring and needle $\delta^{13}C$ and leaf gas exchange in <i>Pinus halepensis</i> under semi-arid conditions. <i>Oecologia</i> , 2005, 144, 45-54.	2.0	91
75	A montane species treeline is defined by both temperature and drought effects on growth season length. <i>Tree Physiology</i> , 0, , .	3.1	1