

João Santos Pereira

List of Publications by Year in descending order

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106
papers

15,530
citations

30070

54
h-index

29157

104
g-index

111
all docs

111
docs citations

111
times ranked

15723
citing authors

#	ARTICLE	IF	CITATIONS
1	Drought reduces tree growing season length but increases nitrogen resorption efficiency in a Mediterranean ecosystem. <i>Biogeosciences</i> , 2019, 16, 1265-1279.	3.3	12
2	Controlling stomatal aperture in semi-arid regions – The dilemma of saving water or being cool?. <i>Plant Science</i> , 2016, 251, 54-64.	3.6	149
3	Resilience of a semi-deciduous shrub, <i>Cistus salvifolius</i> , to severe summer drought and heat stress. <i>Functional Plant Biology</i> , 2015, 42, 219.	2.1	27
4	Effects of an extremely dry winter on net ecosystem carbon exchange and tree phenology at a cork oak woodland. <i>Agricultural and Forest Meteorology</i> , 2015, 204, 48-57.	4.8	33
5	Contrasting soil fungal communities in Mediterranean pine forests subjected to different wildfire frequencies. <i>Fungal Diversity</i> , 2015, 70, 85-99.	12.3	33
6	Drought impact on carbon and water cycling in a Mediterranean <i>Quercus suber</i> & <i>Q. ilex</i> woodland during the extreme drought event in 2012. <i>Biogeosciences</i> , 2014, 11, 7159-7178.	3.3	27
7	Effects of precipitation variability on carbon and water fluxes in the understorey of a nitrogen-limited montado ecosystem. <i>Oecologia</i> , 2014, 176, 1199-1212.	2.0	4
8	Poplar saplings exposed to recurring temperature shifts of different amplitude exhibit differences in leaf gas exchange and growth despite equal mean temperature. <i>AoB PLANTS</i> , 2014, 6, .	2.3	21
9	Cork oak physiological responses to manipulated water availability in a Mediterranean woodland. <i>Agricultural and Forest Meteorology</i> , 2014, 184, 230-242.	4.8	72
10	Comparison of methane, nitrous oxide fluxes and CO ₂ respiration rates from a Mediterranean cork oak ecosystem and improved pasture. <i>Plant and Soil</i> , 2014, 374, 883-898.	3.7	17
11	Influence of tree cover on herbaceous layer development and carbon and water fluxes in a Portuguese cork-oak woodland. <i>Acta Oecologica</i> , 2014, 59, 35-45.	1.1	19
12	Carbon sink strength of a Mediterranean cork oak understorey: how do semi-deciduous and evergreen shrubs face summer drought?. <i>Journal of Vegetation Science</i> , 2014, 25, 411-426.	2.2	22
13	Precipitation variability does not affect soil respiration and nitrogen dynamics in the understorey of a Mediterranean oak woodland. <i>Plant and Soil</i> , 2013, 372, 235-251.	3.7	27
14	Resilience of montado understorey to experimental precipitation variability fails under severe natural drought. <i>Agriculture, Ecosystems and Environment</i> , 2013, 178, 18-30.	5.3	30
15	Drought Influences the Accuracy of Simulated Ecosystem Fluxes: A Model-Data Meta-analysis for Mediterranean Oak Woodlands. <i>Ecosystems</i> , 2013, 16, 749-764.	3.4	42
16	Root functioning, tree water use and hydraulic redistribution in <i>Quercus suber</i> trees: A modeling approach based on root sap flow. <i>Forest Ecology and Management</i> , 2013, 307, 136-146.	3.2	133
17	The impact of changes in the timing of precipitation on the herbaceous understorey of Mediterranean evergreen oak woodlands. <i>Agricultural and Forest Meteorology</i> , 2013, 171-172, 163-173.	4.8	22
18	Drought-induced embolism in current-year shoots of two Mediterranean evergreen oaks. <i>Forest Ecology and Management</i> , 2012, 285, 1-10.	3.2	35

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19	Soil water availability strongly modulates soil CO ₂ efflux in different Mediterranean ecosystems: Model calibration using the Bayesian approach. <i>Agriculture, Ecosystems and Environment</i> , 2012, 161, 88-100.	5.3	30
20	Cork oak (<i>Quercus suber</i> L.) seedlings acclimate to elevated CO ₂ and water stress: photosynthesis, growth, wood anatomy and hydraulic conductivity. <i>Trees - Structure and Function</i> , 2012, 26, 1145-1157.	1.9	43
21	Mediterranean cork oak savannas require human use to sustain biodiversity and ecosystem services. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 278-286.	4.0	370
22	Eight years of continuous carbon fluxes measurements in a Portuguese eucalypt stand under two main events: Drought and felling. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 493-507.	4.8	36
23	The effects of drought and timing of precipitation on the inter-annual variation in ecosystem-atmosphere exchange in a Mediterranean grassland. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 595-606.	4.8	119
24	Phenology and growth dynamics in Mediterranean evergreen oaks: Effects of environmental conditions and water relations. <i>Forest Ecology and Management</i> , 2011, 262, 500-508.	3.2	56
25	Herbaceous layer development during spring does not deplete soil nitrogen in the Portuguese montado. <i>Journal of Arid Environments</i> , 2011, 75, 231-238.	2.4	12
26	Common environmental factors explain both ectomycorrhizal species diversity and pine regeneration variability in a post-fire Mediterranean forest. <i>Mycorrhiza</i> , 2011, 21, 549-558.	2.8	32
27	Leaf-level responses to light in two co-occurring <i>Quercus</i> (<i>Quercus ilex</i> and <i>Quercus suber</i>): leaf structure, chemical composition and photosynthesis. <i>Agroforestry Systems</i> , 2011, 82, 173-181.	2.0	30
28	Observations on 3-dimensional crown growth of Stone pine. <i>Agroforestry Systems</i> , 2011, 82, 105-110.	2.0	11
29	Method for evaluation of coarse cork oak root system by means of digital imaging. <i>Agroforestry Systems</i> , 2011, 82, 111-119.	2.0	4
30	Reversing of seasonal patterns of carbon uptake in an eucalyptus. <i>Forest Systems</i> , 2011, 20, 475.	0.3	2
31	Water stress affects <i>Tomicus destruens</i> host pine preference and performance during the shoot feeding phase. <i>Annals of Forest Science</i> , 2010, 67, 608-608.	2.0	14
32	Disentangling drought-induced variation in ecosystem and soil respiration using stable carbon isotopes. <i>Oecologia</i> , 2010, 163, 1043-1057.	2.0	46
33	The influence of precipitation pulses on soil respiration – Assessing the “Birch effect” by stable carbon isotopes. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1800-1810.	8.8	209
34	General stabilizing effects of plant diversity on grassland productivity through population asynchrony and overyielding. <i>Ecology</i> , 2010, 91, 2213-2220.	3.2	410
35	The impact of drought on leaf physiology of <i>Quercus suber</i> L. trees: comparison of an extreme drought event with chronic rainfall reduction. <i>Journal of Experimental Botany</i> , 2010, 61, 4361-4371.	4.8	55
36	Impact of wildfire return interval on the ectomycorrhizal resistant propagules communities of a Mediterranean open forest. <i>Fungal Biology</i> , 2010, 114, 628-636.	2.5	77

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37	Drought-induced photosynthetic inhibition and autumn recovery in two Mediterranean oak species (<i>Quercus ilex</i> and <i>Quercus suber</i>). <i>Tree Physiology</i> , 2010, 30, 946-956.	3.1	109
38	CO ₂ efflux, CO ₂ concentration and photosynthetic refixation in stems of <i>Eucalyptus globulus</i> (Labill.). <i>Journal of Experimental Botany</i> , 2009, 60, 99-105.	4.8	26
39	Evapotranspiration from a Mediterranean evergreen oak savannah: The role of trees and pasture. <i>Journal of Hydrology</i> , 2009, 369, 98-106.	5.4	85
40	CO ₂ exchange and biomass development of the herbaceous vegetation in the Portuguese montado ecosystem during spring. <i>Agriculture, Ecosystems and Environment</i> , 2009, 132, 143-152.	5.3	21
41	Partitioning carbon fluxes in a Mediterranean oak forest to disentangle changes in ecosystem sink strength during drought. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 949-961.	4.8	41
42	Carbon dioxide exchange above a Mediterranean C3/C4 grassland during two climatologically contrasting years. <i>Global Change Biology</i> , 2008, 14, 539-555.	9.5	129
43	Evaporation and carbonic anhydrase activity recorded in oxygen isotope signatures of net CO ₂ fluxes from a Mediterranean soil. <i>Global Change Biology</i> , 2008, 14, 2178-2193.	9.5	48
44	Implications of the carbon cycle steady state assumption for biogeochemical modeling performance and inverse parameter retrieval. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	113
45	The effect of drought on energy and water vapour exchange above a mediterranean C3/C4 grassland in Southern Portugal. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 565-579.	4.8	72
46	Assessment and up-scaling of CO ₂ exchange by patches of the herbaceous vegetation mosaic in a Portuguese cork oak woodland. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1318-1331.	4.8	19
47	Acclimation to short-term low temperatures in two <i>Eucalyptus globulus</i> clones with contrasting drought resistance. <i>Tree Physiology</i> , 2008, 29, 77-86.	3.1	37
48	Hydraulic and chemical signalling in the regulation of stomatal conductance and plant water use in field grapevines growing under deficit irrigation. <i>Functional Plant Biology</i> , 2008, 35, 565.	2.1	75
49	Responses to chilling of two <i>Eucalyptus globulus</i> clones with contrasting drought resistance. <i>Functional Plant Biology</i> , 2007, 34, 793.	2.1	8
50	Water-use strategies in two co-occurring Mediterranean evergreen oaks: surviving the summer drought. <i>Tree Physiology</i> , 2007, 27, 793-803.	3.1	282
51	Effects of deficit irrigation strategies on cluster microclimate for improving fruit composition of Moscatel field-grown grapevines. <i>Scientia Horticulturae</i> , 2007, 112, 321-330.	3.6	156
52	Net ecosystem carbon exchange in three contrasting Mediterranean ecosystems – the effect of drought. <i>Biogeosciences</i> , 2007, 4, 791-802.	3.3	210
53	Deficit irrigation in grapevine improves water-use efficiency while controlling vigour and production quality. <i>Annals of Applied Biology</i> , 2007, 150, 237-252.	2.5	396
54	Estimation of tree canopy cover in evergreen oak woodlands using remote sensing. <i>Forest Ecology and Management</i> , 2006, 223, 45-53.	3.2	176

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55	Importance of short-term dynamics in carbon isotope ratios of ecosystem respiration ($\delta^{13}C_R$) in a Mediterranean oak woodland and linkage to environmental factors. <i>New Phytologist</i> , 2006, 172, 330-346.	7.3	52
56	Seasonal Variations in Soil and Plant Water Status in a <i>Quercus suber</i> L. Stand: Roots as Determinants of Tree Productivity and Survival in the Mediterranean-type Ecosystem. <i>Plant and Soil</i> , 2006, 283, 119-135.	3.7	64
57	Hydraulic Lift in Cork Oak Trees in a Savannah-Type Mediterranean Ecosystem and its Contribution to the Local Water Balance. <i>Plant and Soil</i> , 2006, 282, 361-378.	3.7	123
58	Rainfall interception by an isolated evergreen oak tree in a Mediterranean savannah. <i>Hydrological Processes</i> , 2006, 20, 2713-2726.	2.6	78
59	Metabolic responses to water deficit in two <i>Eucalyptus globulus</i> clones with contrasting drought sensitivity. <i>Tree Physiology</i> , 2006, 26, 239-248.	3.1	80
60	Control of stomatal aperture and carbon uptake by deficit irrigation in two grapevine cultivars. <i>Agriculture, Ecosystems and Environment</i> , 2005, 106, 261-274.	5.3	124
61	Pan-European $\delta^{13}C$ values of air and organic matter from forest ecosystems. <i>Global Change Biology</i> , 2005, 11, 1065-1093.	9.5	60
62	Species richness, temporal variability and resistance of biomass production in a Mediterranean grassland. <i>Oikos</i> , 2005, 110, 115-123.	2.7	111
63	Impact of deficit irrigation on water use efficiency and carbon isotope composition ($\delta^{13}C$) of field-grown grapevines under Mediterranean climate. <i>Journal of Experimental Botany</i> , 2005, 56, 2163-2172.	4.8	103
64	ECOSYSTEM EFFECTS OF BIODIVERSITY MANIPULATIONS IN EUROPEAN GRASSLANDS. <i>Ecological Monographs</i> , 2005, 75, 37-63.	5.4	439
65	Carbon and nitrogen winter storage and remobilisation during seasonal flush growth in two-year-old cork oak (<i>Quercus suber</i> L.) saplings. <i>Annals of Forest Science</i> , 2004, 61, 721-729.	2.0	45
66	Responses to water stress in two <i>Eucalyptus globulus</i> clones differing in drought tolerance. <i>Tree Physiology</i> , 2004, 24, 1165-1172.	3.1	105
67	Constraints on transpiration from an evergreen oak tree in southern Portugal. <i>Agricultural and Forest Meteorology</i> , 2004, 122, 193-205.	4.8	143
68	Carbon and Water Fluxes in Mediterranean-Type Ecosystems – Constraints and Adaptations. <i>Progress in Botany Fortschritte Der Botanik</i> , 2004, , 467-498.	0.3	17
69	Understanding plant responses to drought – from genes to the whole plant. <i>Functional Plant Biology</i> , 2003, 30, 239.	2.1	2,866
70	Partial rootzone drying: effects on growth and fruit quality of field-grown grapevines (<i>Vitis</i>). <i>Overlook 10</i> , 2003, 142-143.	2.1	203
71	Partial rootzone drying: regulation of stomatal aperture and carbon assimilation in field-grown grapevines (<i>Vitis vinifera</i> cv. Moscatel). <i>Functional Plant Biology</i> , 2003, 30, 653.	2.1	153
72	How Plants Cope with Water Stress in the Field? <i>Photosynthesis and Growth</i> . <i>Annals of Botany</i> , 2002, 89, 907-916.	2.9	1,523

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73	Changes in carbon stocks in <i>Eucalyptus globulus</i> Labill. plantations induced by different water and nutrient availability. <i>Forest Ecology and Management</i> , 2002, 171, 75-85.	3.2	56
74	The role of legumes as a component of biodiversity in a cross-European study of grassland biomass nitrogen. <i>Oikos</i> , 2002, 98, 205-218.	2.7	321
75	Effects of long-term exposure to elevated CO ₂ and N fertilization on the development of photosynthetic capacity and biomass accumulation in <i>Quercus suber</i> L.. <i>Plant, Cell and Environment</i> , 2002, 25, 105-113.	5.7	48
76	Mechanisms of positive biodiversity-production relationships: insights provided by delta13C analysis in experimental Mediterranean grassland plots. <i>Ecology Letters</i> , 2001, 4, 439-443.	6.4	112
77	Local adaptation enhances performance of common plant species. <i>Ecology Letters</i> , 2001, 4, 536-544.	6.4	401
78	Growth, photosynthesis and water-use efficiency of two C ₄ Sahelian grasses subjected to water deficits. <i>Journal of Arid Environments</i> , 2000, 45, 119-137.	2.4	60
79	Interactive effects of nitrogen and phosphorus on the acclimation potential of foliage photosynthetic properties of cork oak, <i>Quercus suber</i> , to elevated atmospheric CO ₂ concentrations. <i>Global Change Biology</i> , 1999, 5, 455-470.	9.5	80
80	Responses of Photosynthetic and Defence Systems to High Temperature Stress in <i>Quercus suber</i> L Seedlings Grown under Elevated CO ₂ . <i>Plant Biology</i> , 1999, 1, 365-371.	3.8	18
81	Plant Diversity and Productivity Experiments in European Grasslands. <i>Science</i> , 1999, 286, 1123-1127.	12.6	1,757
82	Differences in the response of carbon assimilation to summer stress (water deficits, high light and) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i>	5.2	150
83	Water deficits are more important in delaying growth than in changing patterns of carbon allocation in <i>Eucalyptus globulus</i> . <i>Tree Physiology</i> , 1998, 18, 363-373.	3.1	105
84	Transpiration from a mature <i>Eucalyptus globulus</i> plantation in Portugal during a spring-summer period of progressively higher water deficit. <i>Oecologia</i> , 1997, 110, 153-159.	2.0	41
85	Impacts of Climate Change and Elevated CO ₂ on Trees in Regions with a Mediterranean Type of Climate. <i>Forestry Sciences</i> , 1997, , 213-223.	0.4	3
86	Transpiration from a mature. <i>Oecologia</i> , 1997, 110, 153.	2.0	32
87	A comparison among eucalypt, poplar and willow characteristics with particular reference to a coppice, growth-modelling approach. <i>Biomass and Bioenergy</i> , 1996, 11, 215-231.	5.7	102
88	Growth at elevated CO ₂ leads to down-regulation of photosynthesis and altered response to high temperature in <i>Quercus suber</i> L. seedlings. <i>Journal of Experimental Botany</i> , 1996, 47, 1755-1761.	4.8	91
89	Diurnal changes in photoprotective mechanisms in leaves of cork oak (<i>Quercus suber</i>) during summer. <i>Tree Physiology</i> , 1996, 16, 115-123.	3.1	115
90	Effects of water and nutrient supply on amount and on nutrient concentration of litterfall and forest floor litter in <i>Eucalyptus globulus</i> plantations. <i>Plant and Soil</i> , 1995, 168-169, 287-295.	3.7	13

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91	ABA xylem concentrations determine maximum daily leaf conductance of field-grown <i>Vitis vinifera</i> L. plants. <i>Plant, Cell and Environment</i> , 1995, 18, 511-521.	5.7	134
92	Plant Responses to Drought Under Climate Change in Mediterranean-Type Ecosystems. <i>Ecological Studies</i> , 1995, , 140-160.	1.2	38
93	Water Stress, CO ₂ and Climate Change. <i>Journal of Experimental Botany</i> , 1992, 43, 1131-1139.	4.8	132
94	The effect of water stress on photosynthetic carbon metabolism in four species grown under field conditions. <i>Plant, Cell and Environment</i> , 1992, 15, 25-35.	5.7	316
95	Productivity, nutrient immobilization and soil chemical properties in an <i>Eucalyptus globulus</i> plantation under different irrigation and fertilization regimes. <i>Water, Air, and Soil Pollution</i> , 1990, 54, 621-634.	2.4	16
96	Afternoon Depression In Photosynthesis in Grapevine Leaves—Evidence for a High Light Stress Effect. <i>Journal of Experimental Botany</i> , 1990, 41, 417-426.	4.8	99
97	Optimization of Biomass Production in <i>Eucalyptus Globulus</i> Plantations. — A Case Study. , 1989, , 101-121.		60
98	Photochemical efficiency of photosystem II, photon yield of O ₂ evolution, photosynthetic capacity, and carotenoid composition during the midday depression of net CO ₂ uptake in <i>Arbutus unedo</i> growing in Portugal. <i>Planta</i> , 1989, 177, 377-387.	3.2	195
99	Simulation of the Role of Stress on Radiation Absorption, Assimilation, Transpiration and Water Use Efficiency of Stands of <i>Eucalyptus Globulus</i> . , 1989, , 169-179.		9
100	Stomatal Control of Photosynthesis of <i>Eucalyptus globulus</i> Labill. Trees under Field Conditions in Portugal. <i>Journal of Experimental Botany</i> , 1987, 38, 1678-1688.	4.8	64
101	Comparative phenology of four mediterranean shrub species growing in Portugal. , 1987, , 503-513.		22
102	Seasonal and diurnal patterns in leaf gas exchange of <i>Eucalyptus globulus</i> trees growing in Portugal. <i>Canadian Journal of Forest Research</i> , 1986, 16, 177-184.	1.7	89
103	Midday Stomatal Closure in <i>Arbutus Unedo</i> Leaves: Measurements with a Steady-State Porometer in the Portuguese Evergreen Scrub. <i>Tasks for Vegetation Science</i> , 1981, , 61-69.	0.6	16
104	Midday stomatal closure in <i>Arbutus unedo</i> leaves in a natural macchia and under simulated habitat conditions in an environmental chamber. <i>Oecologia</i> , 1980, 47, 365-367.	2.0	56
105	Diurnal and Seasonal Changes in Water Balance of <i>Acer saccharum</i> and <i>Betula papyrifera</i> . <i>Physiologia Plantarum</i> , 1978, 43, 19-30.	5.2	19
106	Variations among Woody Angiosperms in Response to Flooding. <i>Physiologia Plantarum</i> , 1977, 41, 184-192.	5.2	161