

JosÃ© Javier Peguero-Pina

List of Publications by Year in descending order

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72
papers

2,838
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185998

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74
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Summer and winter can equally stress holm oak (<i>Quercus ilex</i> L.) in Mediterranean areas: A physiological view. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2022, 290, 152058.	0.6	8
2	Cell-level anatomy explains leaf age-dependent declines in mesophyll conductance and photosynthetic capacity in the evergreen Mediterranean oak <i>Quercus ilex</i> subsp. <i>rotundifolia</i> . <i>Tree Physiology</i> , 2022, , .	1.4	2
3	Changes in the Abundance of Monoterpenes from Breathable Air of a Mediterranean Conifer Forest: When Is the Best Time for a Human Healthy Leisure Activity?. <i>Forests</i> , 2022, 13, 965.	0.9	3
4	Contact-less, non-resonant and high-frequency ultrasonic technique: Towards a universal tool for plant leaf study. <i>Computers and Electronics in Agriculture</i> , 2022, 199, 107160.	3.7	4
5	Deciduous and evergreen oaks show contrasting adaptive responses in leaf mass per area across environments. <i>New Phytologist</i> , 2021, 230, 521-534.	3.5	38
6	Contrasting functional strategies following severe drought in two Mediterranean oaks with different leaf habit: <i>Quercus faginea</i> and <i>Quercus ilex</i> subsp. <i>rotundifolia</i> . <i>Tree Physiology</i> , 2021, 41, 371-387.	1.4	17
7	Leaf vein density enhances vascular redundancy instead of carbon uptake at the expense of increasing water leaks in oaks. <i>Environmental and Experimental Botany</i> , 2021, 188, 104527.	2.0	3
8	Minimum Leaf Conductance (gmin) Is Higher in the Treeline of <i>Pinus uncinata</i> Ram. in the Pyrenees: Michaelis-Menten Hypothesis Revisited. <i>Frontiers in Plant Science</i> , 2021, 12, 786933.	1.7	3
9	Day length regulates seasonal patterns of stomatal conductance in <i>Quercus</i> species. <i>Plant, Cell and Environment</i> , 2020, 43, 28-39.	2.8	10
10	Cuticular wax coverage and its transpiration barrier properties in <i>Quercus coccifera</i> L. leaves: does the environment matter?. <i>Tree Physiology</i> , 2020, 40, 827-840.	1.4	22
11	Living in Drylands: Functional Adaptations of Trees and Shrubs to Cope with High Temperatures and Water Scarcity. <i>Forests</i> , 2020, 11, 1028.	0.9	52
12	Elevated atmospheric CO ₂ modifies responses to water stress and flowering of Mediterranean desert truffle mycorrhizal shrubs. <i>Physiologia Plantarum</i> , 2020, 170, 537-549.	2.6	6
13	Revisiting the Functional Basis of Sclerophylly Within the Leaf Economics Spectrum of Oaks: Different Roads to Rome. <i>Current Forestry Reports</i> , 2020, 6, 260-281.	3.4	26
14	Hydraulic and photosynthetic limitations prevail over root non-structural carbohydrate reserves as drivers of resprouting in two Mediterranean oaks. <i>Plant, Cell and Environment</i> , 2020, 43, 1944-1957.	2.8	24
15	Surface Density of the Spongy and Palisade Parenchyma Layers of Leaves Extracted From Wideband Ultrasonic Resonance Spectra. <i>Frontiers in Plant Science</i> , 2020, 11, 695.	1.7	7
16	Southeastern Rear Edge Populations of <i>Quercus suber</i> L. Showed Two Alternative Strategies to Cope with Water Stress. <i>Forests</i> , 2020, 11, 1344.	0.9	5
17	Cuticular wax coverage and its transpiration barrier properties in <i>Quercus coccifera</i> L. leaves: does the environment matter?. <i>Tree Physiology</i> , 2019, , .	1.4	2
18	Instantaneous and non-destructive relative water content estimation from deep learning applied to resonant ultrasonic spectra of plant leaves. <i>Plant Methods</i> , 2019, 15, 128.	1.9	30

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19	<i>In situ</i> warming in the Antarctic: effects on growth and photosynthesis in Antarctic vascular plants. <i>New Phytologist</i> , 2018, 218, 1406-1418.	3.5	48
20	Delineating limits: Confronting predicted climatic suitability to field performance in mistletoe populations. <i>Journal of Ecology</i> , 2018, 106, 2218-2229.	1.9	12
21	Non-contact ultrasonic resonant spectroscopy resolves the elastic properties of layered plant tissues. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	12
22	Chl Fluorescence Parameters and Leaf Reflectance Indices Allow Monitoring Changes in the Physiological Status of <i>Quercus ilex</i> L. under Progressive Water Deficit. <i>Forests</i> , 2018, 9, 400.	0.9	12
23	Cavitation Limits the Recovery of Gas Exchange after Severe Drought Stress in Holm Oak (<i>Quercus ilex</i>) Tj ETQq1 1,0784314,rgBT /O	0.9	29
24	Cell-level anatomical characteristics explain high mesophyll conductance and photosynthetic capacity in sclerophyllous Mediterranean oaks. <i>New Phytologist</i> , 2017, 214, 585-596.	3.5	104
25	Changes of secondary metabolites in <i>Pinus sylvestris</i> L. needles under increasing soil water deficit. <i>Annals of Forest Science</i> , 2017, 74, 1.	0.8	29
26	Coordinated modifications in mesophyll conductance, photosynthetic potentials and leaf nitrogen contribute to explain the large variation in foliage net assimilation rates across <i>Quercus ilex</i> provenances. <i>Tree Physiology</i> , 2017, 37, 1084-1094.	1.4	30
27	Physico-chemical properties of plant cuticles and their functional and ecological significance. <i>Journal of Experimental Botany</i> , 2017, 68, 5293-5306.	2.4	156
28	Oaks and People: A Long Journey Together. <i>Tree Physiology</i> , 2017, , 1-11.	0.9	10
29	The Role of Mesophyll Conductance in Oak Photosynthesis: Among- and Within-Species Variability. <i>Tree Physiology</i> , 2017, , 303-325.	0.9	6
30	Oaks Under Mediterranean-Type Climates: Functional Response to Summer Aridity. <i>Tree Physiology</i> , 2017, , 137-193.	0.9	20
31	Photoprotective Mechanisms in the Genus <i>Quercus</i> in Response to Winter Cold and Summer Drought. <i>Tree Physiology</i> , 2017, , 361-391.	0.9	6
32	Ancient cell structural traits and photosynthesis in today's environment. <i>Journal of Experimental Botany</i> , 2017, 68, 1389-1392.	2.4	32
33	Photosynthetic limitations in two Antarctic vascular plants: importance of leaf anatomical traits and Rubisco kinetic parameters. <i>Journal of Experimental Botany</i> , 2017, 68, 2871-2883.	2.4	47
34	Positively selected amino acid replacements within the RuBisCO enzyme of oak trees are associated with ecological adaptations. <i>PLoS ONE</i> , 2017, 12, e0183970.	1.1	11
35	Ultrasonic Sensing of Plant Water Needs for Agriculture. <i>Sensors</i> , 2016, 16, 1089.	2.1	29
36	The Application of Leaf Ultrasonic Resonance to <i>Vitis vinifera</i> L. Suggests the Existence of a Diurnal Osmotic Adjustment Subjected to Photosynthesis. <i>Frontiers in Plant Science</i> , 2016, 7, 1601.	1.7	13

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37	Leaf functional plasticity decreases the water consumption without further consequences for carbon uptake in <i>Quercus coccifera</i> L. under Mediterranean conditions. <i>Tree Physiology</i> , 2016, 36, 356-367.	1.4	27
38	Light acclimation of photosynthesis in two closely related firs (<i>Abies pinsapo</i> Boiss. and <i>Abies</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 300-310.	1.4	40
39	Leaf morphological and physiological adaptations of a deciduous oak (<i>Quercus faginea</i> Lam.) to the Mediterranean climate: a comparison with a closely related temperate species (<i>Quercus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.4	28
40	Monitoring of Plant Light/Dark Cycles Using Air-coupled Ultrasonic Spectroscopy. <i>Physics Procedia</i> , 2015, 63, 91-96.	1.2	0
41	Evidence of vulnerability segmentation in a deciduous Mediterranean oak (<i>Quercus subpyrenaica</i> E. H.) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	28
42	Coping with low light under high atmospheric dryness: shade acclimation in a Mediterranean conifer (<i>Abies pinsapo</i> Boiss.). <i>Tree Physiology</i> , 2014, 34, 1321-1333.	1.4	12
43	Wettability, Polarity, and Water Absorption of Holm Oak Leaves: Effect of Leaf Side and Age. <i>Plant Physiology</i> , 2014, 166, 168-180.	2.3	151
44	Morphological and physiological divergences within <i>Quercus ilex</i> support the existence of different ecotypes depending on climatic dryness. <i>Annals of Botany</i> , 2014, 114, 301-313.	1.4	66
45	Monitoring Plant Response to Environmental Stimuli by Ultrasonic Sensing of the Leaves. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 2183-2194.	0.7	41
46	Change in the terpenoid profile and secondary growth in declining stands of <i>Pinus sylvestris</i> L. under mediterranean influence as a response to local factors. <i>Pirineos</i> , 2014, 169, e003.	0.6	2
47	Genetic and environmental characterization of <i>Abies alba</i> Mill. populations at its western rear edge. <i>Pirineos</i> , 2014, 169, e007.	0.6	9
48	The reflectivity in the Sâ€šband and the broadband ultrasonic spectroscopy as new tools for the study of water relations in <i>Vitis vinifera</i> L.. <i>Physiologia Plantarum</i> , 2013, 148, 512-521.	2.6	43
49	Stomatal encryption by epicuticular waxes as a plastic trait modifying gas exchange in a Mediterranean evergreen species (<i>Quercus coccifera</i> L.). <i>Plant, Cell and Environment</i> , 2013, 36, 579-589.	2.8	29
50	Shear waves in vegetal tissues at ultrasonic frequencies. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	43
51	Ultrasonic spectroscopy allows a rapid determination of the relative water content at the turgor loss point: a comparison with pressure-volume curves in 13 woody species. <i>Tree Physiology</i> , 2013, 33, 695-700.	1.4	15
52	Three pools of zeaxanthin in <i>Quercus coccifera</i> leaves during light transitions with different roles in rapidly reversible photoprotective energy dissipation and photoprotection. <i>Journal of Experimental Botany</i> , 2013, 64, 1649-1661.	2.4	38
53	Shear waves in plant leaves at ultrasonic frequencies: Shear properties of vegetal tissues. , 2012, , .		3
54	Mesophyll diffusion conductance to CO ₂ : An unappreciated central player in photosynthesis. <i>Plant Science</i> , 2012, 193-194, 70-84.	1.7	563

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55	Drought Response in Forest Trees: From the Species to the Gene. , 2012, , 293-333.		23
56	Air-coupled ultrasonic resonant spectroscopy for the study of the relationship between plant leaves' elasticity and their water content. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 319-325.	1.7	30
57	Leaf anatomical properties in relation to differences in mesophyll conductance to CO ₂ and photosynthesis in two related Mediterranean <i>Abies</i> species. Plant, Cell and Environment, 2012, 35, 2121-2129.	2.8	99
58	Microwave l-band (1730MHz) accurately estimates the relative water content in poplar leaves. A comparison with a near infrared water index (R1300/R1450). Agricultural and Forest Meteorology, 2011, 151, 827-832.	1.9	49
59	Embolism induced by winter drought may be critical for the survival of <i>Pinus sylvestris</i> L. near its southern distribution limit. Annals of Forest Science, 2011, 68, 565.	0.8	23
60	Relationship between ultrasonic properties and structural changes in the mesophyll during leaf dehydration. Journal of Experimental Botany, 2011, 62, 3637-3645.	2.4	71
61	Hydraulic traits are associated with the distribution range of two closely related Mediterranean firs, <i>Abies alba</i> Mill. and <i>Abies pinsapo</i> Boiss.. Tree Physiology, 2011, 31, 1067-1075.	1.4	29
62	Evaluation of unventilated treeshelters in the context of Mediterranean climate: Insights from a study on <i>Quercus faginea</i> seedlings assessed with a 3D architectural plant model. Ecological Engineering, 2010, 36, 517-526.	1.6	17
63	Effects of iron chlorosis and iron resupply on leaf xylem architecture, water relations, gas exchange and stomatal performance of field-grown peach (<i>Prunus persica</i>). Physiologia Plantarum, 2010, 138, 48-59.	2.6	45
64	Air-coupled broadband ultrasonic spectroscopy as a new non-invasive and non-contact method for the determination of leaf water status. Journal of Experimental Botany, 2010, 61, 1385-1391.	2.4	62
65	Self-shading in cork oak seedlings: Functional implications in heterogeneous light environments. Acta Oecologica, 2010, 36, 423-430.	0.5	6
66	Noncontact and noninvasive study of plant leaves using air-coupled ultrasounds. Applied Physics Letters, 2009, 95, .	1.5	50
67	Determination of plant leaves water status using air-coupled ultrasounds. , 2009, , .		11
68	Differential photosynthetic performance and photoprotection mechanisms of three Mediterranean evergreen oaks under severe drought stress. Functional Plant Biology, 2009, 36, 453.	1.1	75
69	Photosystem II efficiency of the palisade and spongy mesophyll in <i>Quercus coccifera</i> using adaxial/abaxial illumination and excitation light sources with wavelengths varying in penetration into the leaf tissue. Photosynthesis Research, 2009, 99, 49-61.	1.6	18
70	Photochemistry, remotely sensed physiological reflectance index and de-epoxidation state of the xanthophyll cycle in <i>Quercus coccifera</i> under intense drought. Oecologia, 2008, 156, 1-11.	0.9	117
71	Ãvaluation des dÃ©gÃ¢ts du froid dans les troncs de <i>Pinus sylvestris</i> L. par la mesure de la fluorescence de la chlorophylle dans le chlorenchyme cortical de lâ€™Ã©corce. Annals of Forest Science, 2008, 65, 813-813.	0.8	20
72	Physiological performance of silver-fir (<i>Abies alba</i> Mill.) populations under contrasting climates near the south-western distribution limit of the species. Flora: Morphology, Distribution, Functional Ecology of Plants, 2007, 202, 226-236.	0.6	55