

VÃ-ctor Resco de Dios

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

6,403
citations

94433

37
h-index

74163

75
g-index

137
all docs

137
docs citations

137
times ranked

9579
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database “ enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
2	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	5.3	646
3	Unprecedented burn area of Australian mega forest fires. <i>Nature Climate Change</i> , 2020, 10, 171-172.	18.8	406
4	Optimal stomatal behaviour around the world. <i>Nature Climate Change</i> , 2015, 5, 459-464.	18.8	397
5	Causes and consequences of eastern Australia's 2019–20 season of mega fires. <i>Global Change Biology</i> , 2020, 26, 1039-1041.	9.5	292
6	An introduction to the Australian and New Zealand flux tower network “ OzFlux. <i>Biogeosciences</i> , 2016, 13, 5895-5916.	3.3	159
7	Large-scale, dynamic transformations in fuel moisture drive wildfire activity across southeastern Australia. <i>Geophysical Research Letters</i> , 2016, 43, 4229-4238.	4.0	148
8	Climate Change Effects on Mediterranean Forests and Preventive Measures. <i>New Forests</i> , 2006, 33, 29-40.	1.7	134
9	Forests synchronize their growth in contrasting Eurasian regions in response to climate warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 662-667.	7.1	126
10	Woody plants optimise stomatal behaviour relative to hydraulic risk. <i>Ecology Letters</i> , 2018, 21, 968-977.	6.4	109
11	Drought-induced hydraulic limitations constrain leaf gas exchange recovery after precipitation pulses in the C ₃ woody legume, <i>Prosopis velutina</i> . <i>New Phytologist</i> , 2009, 181, 672-682.	7.3	108
12	Genetic variation in circadian regulation of nocturnal stomatal conductance enhances carbon assimilation and growth. <i>Plant, Cell and Environment</i> , 2016, 39, 3-11.	5.7	93
13	A semi-mechanistic model for predicting the moisture content of fine litter. <i>Agricultural and Forest Meteorology</i> , 2015, 203, 64-73.	4.8	91
14	Fire-induced deforestation in drought-prone Mediterranean forests: drivers and unknowns from leaves to communities. <i>Ecological Monographs</i> , 2018, 88, 141-169.	5.4	90
15	Limits to post-fire vegetation recovery under climate change. <i>Plant, Cell and Environment</i> , 2021, 44, 3471-3489.	5.7	90
16	Climate-change-driven growth decline of European beech forests. <i>Communications Biology</i> , 2022, 5, 163.	4.4	89
17	Processes driving nocturnal transpiration and implications for estimating land evapotranspiration. <i>Scientific Reports</i> , 2015, 5, 10975.	3.3	85
18	Plant water potential improves prediction of empirical stomatal models. <i>PLoS ONE</i> , 2017, 12, e0185481.	2.5	77

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19	Utilizing intraspecific variation in phenotypic plasticity to bolster agricultural and forest productivity under climate change. <i>Plant, Cell and Environment</i> , 2015, 38, 1752-1764.	5.7	74
20	Predicting dead fine fuel moisture at regional scales using vapour pressure deficit from MODIS and gridded weather data. <i>Remote Sensing of Environment</i> , 2016, 174, 100-108.	11.0	74
21	Changing Weather Extremes Call for Early Warning of Potential for Catastrophic Fire. <i>Earth's Future</i> , 2017, 5, 1196-1202.	6.3	73
22	Invasive forb benefits from water savings by native plants and carbon fertilization under elevated CO_2 and warming. <i>New Phytologist</i> , 2013, 200, 1156-1165.	7.3	67
23	Linking Forest Flammability and Plant Vulnerability to Drought. <i>Forests</i> , 2020, 11, 779.	2.1	64
24	Woody clockworks: circadian regulation of nighttime water use in <i>Eucalyptus globulus</i> . <i>New Phytologist</i> , 2013, 200, 743-752.	7.3	56
25	Rainfall patterns after fire differentially affect the recruitment of three Mediterranean shrubs. <i>Biogeosciences</i> , 2011, 8, 3721-3732.	3.3	55
26	Assessing the potential functions of nocturnal stomatal conductance in C_3 and C_4 plants. <i>New Phytologist</i> , 2019, 223, 1696-1706.	7.3	55
27	Ecological implications of plants'™ ability to tell the time. <i>Ecology Letters</i> , 2009, 12, 583-592.	6.4	50
28	Chlorophyll fluorescence, predawn water potential and photosynthesis in precipitation pulse-driven ecosystems – implications for ecological studies. <i>Functional Ecology</i> , 2008, 22, 479-483.	3.6	48
29	Carbon uptake and water use in woodlands and forests in southern Australia during an extreme heat wave event in the ‘‘Angry Summer’’ of 2012/2013. <i>Biogeosciences</i> , 2016, 13, 5947-5964.	3.3	48
30	A new family of standardized and symmetric indices for measuring the intensity and importance of plant neighbour effects. <i>Methods in Ecology and Evolution</i> , 2017, 8, 580-591.	5.2	44
31	Future changes in climatic water balance determine potential for transformational shifts in Australian fire regimes. <i>Environmental Research Letters</i> , 2016, 11, 065002.	5.2	43
32	Circadian regulation of photosynthesis and transpiration from genes to ecosystems. <i>Environmental and Experimental Botany</i> , 2018, 152, 37-48.	4.2	42
33	Physiological drought responses improve predictions of live fuel moisture dynamics in a Mediterranean forest. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 417-427.	4.8	42
34	Globe-LFMC, a global plant water status database for vegetation ecophysiology and wildfire applications. <i>Scientific Data</i> , 2019, 6, 155.	5.3	41
35	Leaf photosynthetic, economics and hydraulic traits are decoupled among genotypes of a widespread species of eucalypt grown under ambient and elevated CO_2 . <i>Functional Ecology</i> , 2016, 30, 1491-1500.	3.6	40
36	Analyzing the major drivers of NEE in a Mediterranean alpine shrubland. <i>Biogeosciences</i> , 2010, 7, 2601-2611.	3.3	38

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37	Pretreatment of rice straw by newly isolated fungal consortium enhanced lignocellulose degradation and humification during composting. <i>Bioresource Technology</i> , 2022, 354, 127150.	9.6	36
38	Endogenous circadian regulation of carbon dioxide exchange in terrestrial ecosystems. <i>Global Change Biology</i> , 2012, 18, 1956-1970.	9.5	35
39	Intraspecific variation in juvenile tree growth under elevated CO ₂ alone and with O ₃ : a meta-analysis. <i>Tree Physiology</i> , 2016, 36, 682-693.	3.1	34
40	Intra-specific association between carbon isotope composition and productivity in woody plants: A meta-analysis. <i>Plant Science</i> , 2016, 251, 110-118.	3.6	34
41	Unraveling the effects of arbuscular mycorrhizal fungi on cadmium uptake and detoxification mechanisms in perennial ryegrass (<i>Lolium perenne</i>). <i>Science of the Total Environment</i> , 2021, 798, 149222.	8.0	34
42	Soil phosphorous and endogenous rhythms exert a larger impact than CO ₂ or temperature on nocturnal stomatal conductance in <i>Eucalyptus tereticornis</i> . <i>Tree Physiology</i> , 2013, 33, 1206-1215.	3.1	33
43	Gastropod diversity in aspen stands in coastal northern Sweden. <i>Forest Ecology and Management</i> , 2003, 175, 403-412.	3.2	31
44	Circadian rhythms have significant effects on leaf-to-canopy scale gas exchange under field conditions. <i>GigaScience</i> , 2016, 5, 43.	6.4	31
45	Circadian Regulation and Diurnal Variation in Gas Exchange. <i>Plant Physiology</i> , 2017, 175, 3-4.	4.8	30
46	Climate change induced declines in fuel moisture may turn currently fire-free Pyrenean mountain forests into fire-prone ecosystems. <i>Science of the Total Environment</i> , 2021, 797, 149104.	8.0	30
47	Modifying rainfall patterns in a Mediterranean shrubland: system design, plant responses, and experimental burning. <i>International Journal of Biometeorology</i> , 2012, 56, 1033-1043.	3.0	29
48	Postfire nitrogen balance of Mediterranean shrublands: Direct combustion losses versus gaseous and leaching losses from the postfire soil mineral nitrogen flush. <i>Global Change Biology</i> , 2018, 24, 4505-4520.	9.5	29
49	Using unmanned aerial vehicle-based multispectral, RGB and thermal imagery for phenotyping of forest genetic trials: A case study in <i>Pinus halepensis</i> . <i>Annals of Applied Biology</i> , 2019, 174, 262-276.	2.5	29
50	Effects of topsoil removal by soil-scarification on regeneration dynamics of mixed forests in Hokkaido, Northern Japan. <i>Forest Ecology and Management</i> , 2005, 215, 138-148.	3.2	28
51	Upside-down fluxes Down Under: CO ₂ ; net sink in winter and net source in summer in a temperate evergreen broadleaf forest. <i>Biogeosciences</i> , 2018, 15, 3703-3716.	3.3	28
52	Transitions from grassland to savanna under drought through passive facilitation by grasses. <i>Journal of Vegetation Science</i> , 2014, 25, 937-946.	2.2	27
53	Diurnal and seasonal variation in the carbon isotope composition of leaf dark-respired CO ₂ in velvet mesquite (<i>Prosopis velutina</i>). <i>Plant, Cell and Environment</i> , 2009, 32, 1390-1400.	5.7	26
54	Endogenous circadian rhythms in pigment composition induce changes in photochemical efficiency in plant canopies. <i>Plant, Cell and Environment</i> , 2017, 40, 1153-1162.	5.7	26

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55	Extreme drought affects the productivity, but not the composition, of a desert plant community in Central Asia differentially across microtopographies. <i>Science of the Total Environment</i> , 2020, 717, 137251.	8.0	25
56	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.	5.7	24
57	Adjustment of annual NEE and ET for the open-path IRGA self-heating correction: Magnitude and approximation over a range of climate. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1856-1861.	4.8	23
58	Differences in morpho-physiological leaf traits reflect the response of growth to drought in a seeder but not in a resprouter Mediterranean species. <i>Functional Plant Biology</i> , 2012, 39, 332.	2.1	23
59	Fire increases the risk of higher soil N ₂ O emissions from Mediterranean <i>Macchia</i> ecosystems. <i>Soil Biology and Biochemistry</i> , 2015, 82, 44-51.	8.8	23
60	Night and day “ Circadian regulation of night-time dark respiration and light-enhanced dark respiration in plant leaves and canopies. <i>Environmental and Experimental Botany</i> , 2017, 137, 14-25.	4.2	23
61	The stable isotope ecology of terrestrial plant succession. <i>Plant Ecology and Diversity</i> , 2011, 4, 117-130.	2.4	22
62	DendroSync: An R package to unravel synchrony patterns in tree-ring networks. <i>Dendrochronologia</i> , 2018, 47, 17-22.	2.2	22
63	Understorey productivity in temperate grassy woodland responds to soil water availability but not to elevated [CO ₂]. <i>Global Change Biology</i> , 2018, 24, 2366-2376.	9.5	21
64	Photosynthesis and carbon allocation are both important predictors of genotype productivity responses to elevated CO ₂ in <i>Eucalyptus camaldulensis</i> . <i>Tree Physiology</i> , 2018, 38, 1286-1301.	3.1	21
65	Plant-Fire Interactions. <i>Managing Forest Ecosystems</i> , 2020, , .	0.9	20
66	A broader perspective on the causes and consequences of eastern Australia's 2019-20 season of mega-fires: A response to Adams et al.. <i>Global Change Biology</i> , 2020, 26, e8-e9.	9.5	20
67	A hydroclimatic model for the distribution of fire on Earth. <i>Environmental Research Communications</i> , 2021, 3, 035001.	2.3	20
68	Nocturnal and seasonal patterns of carbon isotope composition of leaf dark-respired carbon dioxide differ among dominant species in a semiarid savanna. <i>Oecologia</i> , 2010, 164, 297-310.	2.0	19
69	Convergence in critical fuel moisture and fire weather thresholds associated with fire activity in the pyroregions of Mediterranean Europe. <i>Science of the Total Environment</i> , 2022, 806, 151462.	8.0	19
70	Similar diurnal, seasonal and annual rhythms in radial root expansion across two coexisting Mediterranean oak species. <i>Tree Physiology</i> , 2020, 40, 956-968.	3.1	17
71	Environmental and physiological controls on the carbon isotope composition of CO ₂ respired by leaves and roots of a C ₃ woody legume (<i>Prosopis velutina</i>) and a C ₄ perennial grass (<i>Sporobolus wrightii</i>). <i>Plant, Cell and Environment</i> , 2012, 35, 567-577.	5.7	15
72	Effects of competition and herbivory over woody seedling growth in a temperate woodland trump the effects of elevated CO ₂ . <i>Oecologia</i> , 2018, 187, 811-823.	2.0	15

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73	Crown bulk density and fuel moisture dynamics in <i>Pinus pinaster</i> stands are neither modified by thinning nor captured by the Forest Fire Weather Index. <i>Annals of Forest Science</i> , 2017, 74, 1.	2.0	14
74	Bridging the genotypeâ€“phenotype gap for a Mediterranean pine by semiâ€“automatic crown identification and multispectral imagery. <i>New Phytologist</i> , 2021, 229, 245-258.	7.3	14
75	Some Challenges for Forest Fire Risk Predictions in the 21st Century. <i>Forests</i> , 2021, 12, 469.	2.1	13
76	Testing the limits of plant drought stress and subsequent recovery in four provenances of a widely distributed subtropical tree species. <i>Plant, Cell and Environment</i> , 2022, 45, 1187-1203.	5.7	13
77	Live Fuel Moisture Content Mapping in the Mediterranean Basin Using Random Forests and Combining MODIS Spectral and Thermal Data. <i>Remote Sensing</i> , 2022, 14, 3162.	4.0	13
78	Windows of opportunity for <i>Prosopis velutina</i> seedling establishment and encroachment in a semiarid grassland. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2012, 14, 275-282.	2.7	12
79	A trade-off between embolism resistance and bark thickness in conifers: are drought and fire adaptations antagonistic?. <i>Plant Ecology and Diversity</i> , 2018, 11, 253-258.	2.4	12
80	Acclimation to nitrogen Ã— salt stress in <i>Populus bolleana</i> mediated by potassium/sodium balance. <i>Industrial Crops and Products</i> , 2021, 170, 113789.	5.2	12
81	Sink and source co-limitation in the response of stored non-structural carbohydrates to an intense but short drought. <i>Trees - Structure and Function</i> , 2021, 35, 1751-1754.	1.9	11
82	Day length regulates seasonal patterns of stomatal conductance in <i>Quercus</i> species. <i>Plant, Cell and Environment</i> , 2020, 43, 28-39.	5.7	10
83	The brassinosteroid biosynthesis enzyme gene <i>PeCPD</i> improves plant growth and salt tolerance in <i>Populus tomentosa</i> . <i>Industrial Crops and Products</i> , 2021, 162, 113218.	5.2	10
84	Iron and copper micronutrients influences cadmium accumulation in rice grains by altering its transport and allocation. <i>Science of the Total Environment</i> , 2021, 777, 146118.	8.0	10
85	Effects of a Heat Wave on Nocturnal Stomatal Conductance in <i>Eucalyptus camaldulensis</i> . <i>Forests</i> , 2018, 9, 319.	2.1	9
86	Agroforestry shows higher potential than reforestation for soil restoration after slash-and-burn: a case study from Bangladesh. , 2020, , 1-7.		9
87	Needle Senescence Affects Fire Behavior in Aleppo Pine (<i>Pinus halepensis</i> Mill.) Stands: A Simulation Study. <i>Forests</i> , 2020, 11, 1054.	2.1	9
88	Climate and stomatal traits drive covariation in nighttime stomatal conductance and daytime gas exchange rates in a widespread C_{4} grass. <i>New Phytologist</i> , 2021, 229, 2020-2034.	7.3	9
89	Circadian Regulation Does Not Optimize Stomatal Behaviour. <i>Plants</i> , 2020, 9, 1091.	3.5	8
90	Ground-Penetrating Radar as phenotyping tool for characterizing intraspecific variability in root traits of a widespread conifer. <i>Plant and Soil</i> , 2021, 468, 319-336.	3.7	8

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91	Pretreating poplar cuttings with low nitrogen ameliorates salt stress responses by increasing stored carbohydrates and priming stress signaling pathways. <i>Ecotoxicology and Environmental Safety</i> , 2021, 225, 112801.	6.0	8
92	Drivers of nocturnal stomatal conductance in C3 and C4 plants. <i>Science of the Total Environment</i> , 2022, 814, 151952.	8.0	8
93	Metal tolerance protein MTP6 is involved in Mn and Co distribution in poplar. <i>Ecotoxicology and Environmental Safety</i> , 2021, 226, 112868.	6.0	7
94	A semi-mechanistic model for predicting daily variations in species-level live fuel moisture content. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109022.	4.8	7
95	Stable isotope views on ecosystem function: challenging or challenged?. <i>Biology Letters</i> , 2010, 6, 287-289.	2.3	6
96	When fire acts like an irrigation: competition release after burning enhances growth. <i>Trees - Structure and Function</i> , 2016, 30, 579-580.	1.9	6
97	Circadian rhythms regulate the environmental responses of net CO ₂ exchange in bean and cotton canopies. <i>Agricultural and Forest Meteorology</i> , 2017, 239, 185-191.	4.8	6
98	Announcing the Grubb Reviews. <i>Plant Ecology and Diversity</i> , 2016, 9, 1-1.	2.4	5
99	Relationships between climate of origin and photosynthetic responses to an episodic heatwave depend on growth CO ₂ concentration for <i>Eucalyptus camaldulensis</i> var. <i>camaldulensis</i> . <i>Functional Plant Biology</i> , 2017, 44, 1053.	2.1	4
100	Life after Harvest: Circadian Regulation in Photosynthetic Pigments of Rocket Leaves during Supermarket Storage Affects the Nutritional Quality. <i>Nutrients</i> , 2019, 11, 1519.	4.1	4
101	Radiation and Drought Impact Residual Leaf Conductance in Two Oak Species With Implications for Water Use Models. <i>Frontiers in Plant Science</i> , 2020, 11, 603581.	3.6	4
102	On the persistence of memory. <i>Plant Signaling and Behavior</i> , 2013, 8, e26964.	2.4	3
103	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.	4.2	3
104	Ethylene activates poplar defense against <i>Dothiorella gregaria</i> Sacc by regulating reactive oxygen species accumulation. <i>Physiologia Plantarum</i> , 2022, 174, .	5.2	3
105	The Evolution of Physiological Adaptations in a Flammable Planet. <i>Managing Forest Ecosystems</i> , 2020, , 53-73.	0.9	2
106	Letter to the editor regarding Rodrigues et al. 2020: Is COVID-19 halting wildfires in the Mediterranean? Insights for wildfire science under a pandemic context. <i>Science of the Total Environment</i> , 2021, 766, 143347.	8.0	2
107	Plant Carbon Economies and the Dynamics of Wildland Fuels. <i>Managing Forest Ecosystems</i> , 2020, , 93-115.	0.9	1
108	Effects of Fire on Plant Performance. <i>Managing Forest Ecosystems</i> , 2020, , 117-132.	0.9	1

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109	Forest Succession, Alternative States, and Fire-Vegetation Feedbacks. <i>Managing Forest Ecosystems</i> , 2020, , 133-153.	0.9	1
110	When fire acts like an irrigation: competition release after burning enhances growth. , 2016, 30, 579.		1
111	Fires: degree courses for fire professionals. <i>Nature</i> , 2017, 551, 300-300.	27.8	1
112	Assessing Plant Pigment Regulation in Circadian Experiments. <i>Methods in Molecular Biology</i> , 2022, 2494, 135-148.	0.9	1
113	Global Change, Pyrophysiology, and Wildfires. <i>Managing Forest Ecosystems</i> , 2020, , 177-197.	0.9	0
114	Fire Regimes Across Space. <i>Managing Forest Ecosystems</i> , 2020, , 15-29.	0.9	0
115	Fire as an Earth System Process. <i>Managing Forest Ecosystems</i> , 2020, , 31-51.	0.9	0
116	Environmental Plant Responses and Wildland Fire Danger. <i>Managing Forest Ecosystems</i> , 2020, , 75-92.	0.9	0
117	Pyrophysiology and Wildfire Management. <i>Managing Forest Ecosystems</i> , 2020, , 155-175.	0.9	0