Ej Edwards

List of Publications by Year
in descending order

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54 papers	1,991 citations	279487 23 h-index	253896 43 g-index
55 all docs	55 docs citations	55 times ranked	2949 citing authors

#	Article	IF	Citations
1	Response of root respiration to changes in temperature and its relevance to global warming. New Phytologist, 2000, 147, 141-154.	3.5	358
2	Impact of soil warming and shading on colonization and community structure of arbuscular mycorrhizal fungi in roots of a native grassland community. Global Change Biology, 2004, 10, 52-64.	4.2	127
3	Expression of ABA synthesis and metabolism genes under different irrigation strategies and atmospheric VPDs is associated with stomatal conductance in grapevine (Vitis vinifera L. cv Cabernet) Tj ETQq1 1 0.784314 rgBT /Ove	2.4	98
4	Nitrogen in cell walls of sclerophyllous leaves accounts for little of the variation in photosynthetic nitrogenâ€use efficiency. Plant, Cell and Environment, 2009, 32, 259-270.	2.8	97
5	GABA signalling modulates stomatal opening to enhance plant water use efficiency and drought resilience. Nature Communications, 2021, 12, 1952.	5.8	92
6	Anthocyanin biosynthesis is differentially regulated by light in the skin and flesh of white-fleshed and teinturier grape berries. Planta, 2016, 243, 23-41.	1.6	91
7	VitiCanopy: A Free Computer App to Estimate Canopy Vigor and Porosity for Grapevine. Sensors, 2016, 16, 585.	2.1	87
8	Root production is determined by radiation flux in a temperate grassland community. Global Change Biology, 2004, 10, 209-227.	4.2	84
9	Seed Persistence: A Correlation Between Seed Longevity in the Soil and Ortho-Dihydroxyphenol Concentration. Functional Ecology, 1994, 8, 658.	1.7	77
10	Phosphorus availability and elevated CO 2 affect biological nitrogen fixation and nutrient fluxes in a cloverâ€dominated sward. New Phytologist, 2006, 169, 157-167.	3.5	66
11	Functional differences in transport properties of natural <scp>HKT</scp>1;1 variants influence shoot Na⁺ exclusion in grapevine rootstocks. New Phytologist, 2018, 217, 1113-1127.	3.5	66
12	ABA-mediated responses to water deficit separate grapevine genotypes by their genetic background. BMC Plant Biology, 2016, 16, 91.	1.6	54
13	Abscisic Acid Down-Regulates Hydraulic Conductance of Grapevine Leaves in Isohydric Genotypes Only. Plant Physiology, 2017, 175, 1121-1134.	2.3	54
14	Interseasonal effects of regulated deficit irrigation on growth, yield, water use, berry composition and wine attributes of Cabernet Sauvignon grapevines. Australian Journal of Grape and Wine Research, 2013, 19, 261-276.	1.0	48
15	Improved High-Performance Liquid Chromatographic Method for the Analysis of Potato (Solanum) Tj ETQq1 1 0.784314 rgBT /Overlock	2.4	40
16	Is there a link between greening and light-enhanced glycoalkaloid accumulation in potato (Solanum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.7	40
17	Contrasting stomatal regulation and leaf ABA concentrations in wheat genotypes when split root systems were exposed to terminal drought. Field Crops Research, 2014, 162, 77-86.	2.3	36
18	Grapevine canopy response to a high-temperature event during deficit irrigation. Australian Journal of Grape and Wine Research, 2011, 17, 153-161.	1.0	30

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19	The Synthesis and Accumulation of Resveratrol Are Associated with Veraison and Abscisic Acid Concentration in Beihong (Vitis vinifera Ã— Vitis amurensis) Berry Skin. Frontiers in Plant Science, 2016, 7, 1605.	1.7	29
20	Fast Phenomics in Vineyards: Development of GRover, the Grapevine Rover, and LiDAR for Assessing Grapevine Traits in the Field. Sensors, 2018, 18, 2924.	2.1	28
21	Effect of Temperature on Glycoalkaloid and Chlorophyll Accumulation in Potatoes (SolanumtuberosumL. Cv. King Edward) Stored at Low Photon Flux Density, Including Preliminary Modeling Using an Artificial Neural Network. Journal of Agricultural and Food Chemistry, 1997, 45, 1032-1038.	2.4	26
22	Rapid measurement of total non-structural carbohydrate concentration in grapevine trunk and leaf tissues using near infrared spectroscopy. Computers and Electronics in Agriculture, 2017, 136, 176-183.	3.7	25
23	Does greater nightâ€time, rather than constant, warming alter growth of managed pasture under under ambient and elevated atmospheric CO 2 ?. New Phytologist, 2004, 162, 397-411.	3.5	24
24	Changes in Nutritional Value of Cyanogenic Trifolium repens Grown at Elevated Atmospheric CO2. Journal of Chemical Ecology, 2009, 35, 476-478.	0.9	23
25	Root biomass in the upper layer of the soil profile is related to the stomatal response of wheat as the soil dries. Functional Plant Biology, 2016, 43, 62.	1.1	21
26	Canopy density estimation in perennial horticulture crops using 3D spinning lidar SLAM. Journal of Field Robotics, 2021, 38, 598-618.	3.2	20
27	Impact of low rainfall during dormancy on vine productivity and development. Australian Journal of Grape and Wine Research, 2020, 26, 325-342.	1.0	19
28	The effect of prior storage on the potential of potato tubers (Solanum tuberosum L) to accumulate glycoalkaloids and chlorophylls during light exposure, including artificial neural network modelling. Journal of the Science of Food and Agriculture, 1999, 79, 1289-1297.	1.7	18
29	A Simple Microplate Assay to Quantify Nonstructural Carbohydrates of Grapevine Tissues. American Journal of Enology and Viticulture, 2011, 62, 133-137.	0.9	18
30	Multi-seasonal effects of warming and elevated CO₂ on the physiology, growth and production of mature, field grown, Shiraz grapevines. Oeno One, 2017, 51, 127-132.	0.7	15
31	Climate change and its consequences for viticulture. , 2022, , 727-778.		15
32	Phosphorus status determines biomass response to elevated CO2 in a legume : C4 grass community. Global Change Biology, 2005, 11, 051013014052003-???.	4.2	14
33	Digital Twin for the Future of Orchard Production Systems. Proceedings (mdpi), 2020, 36, .	0.2	14
34	Bridging the gap between data and decisions: A review of process-based models for viticulture. Agricultural Systems, 2021, 193, 103209.	3.2	14
35	The apparent temperature response of leaf respiration depends on the timescale of measurements: a study of two cold climate species. Plant Biology, 2008, 10, 185-193.	1.8	13
36	Reprint of â€œContrasting stomatal regulation and leaf ABA concentrations in wheat genotypes when split root systems were exposed to terminal droughtâ€• Field Crops Research, 2014, 165, 5-14.	2.3	12

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37	Regulation of anthocyanin and sugar accumulation in grape berry through carbon limitation and exogenous ABA application. Food Research International, 2022, 160, 111478.	2.9	12
38	A whole canopy gas exchange system for the targeted manipulation of grapevine source-sink relations using sub-ambient CO2. BMC Plant Biology, 2019, 19, 535.	1.6	9
39	Gene body demethylation increases expression and is associated with self-pruning during grape genome duplication. Horticulture Research, 2020, 7, 84.	2.9	9
40	The response of commercially managed, field grown, grapevines (Vitis viniferaL.) to a simulated future climate consisting of elevated CO2in combination with elevated air temperature. Acta Horticulturae, 2016, , 103-110.	0.1	7
41	Barley Plants Overexpressing Ferrochelatases (HvFC1 and HvFC2) Show Improved Photosynthetic Rates and Have Reduced Photo-Oxidative Damage under Drought Stress than Non-Transgenic Controls. Agronomy, 2020, 10, 1351.	1.3	7
42	Differential response of the accumulation of primary and secondary metabolites to leafâ€toâ€fruit ratio and exogenous abscisic acid. Australian Journal of Grape and Wine Research, 2021, 27, 527-539.	1.0	7
43	THE ROLE OF ROOTSTOCKS IN GRAPEVINE WATER USE EFFICIENCY: IMPACTS ON TRANSPIRATION, STOMATAL CONTROL AND YIELD EFFICIENCY. Acta Horticulturae, 2014, , 121-128.	0.1	6
44	Investigating the effects of elevated temperature on salinity tolerance traits in grapevine rootstocks using highâ€throughput phenotyping. Australian Journal of Grape and Wine Research, 2022, 28, 276-291.	1.0	5
45	Rootstockâ€conferred traits affect the water use efficiency of fruit production in Shiraz. Australian Journal of Grape and Wine Research, 2022, 28, 316-327.	1.0	5
46	Decoupled drought responses of fine-root versus leaf acquisitive traits among six Prunus hybrids. Journal of Plant Ecology, 2020, 13, 304-312.	1.2	4
47	Short sequence repeat (SSR) genotyping and sodium exclusion phenotyping of aVitishybrid population (â€˜K51-40â€™ Ã— â€˜Schwarzmannâ€™). Acta Horticulturae, 2019, , 513-520.	0.1	3
48	Canopy temperature of highâ€nitrogen waterâ€stressed cotton. Crop Science, 2020, 60, 1513-1529.	0.8	3
49	Multi-seasonal effects of warming and elevated CO₂ on the physiology, growth and production of mature, field grown, Shiraz grapevines. Oeno One, 2017, 51, 127.	0.7	3
50	Rootstock type influences salt exclusion response of grafted Shiraz under salt treatment at elevated root zone temperature. Australian Journal of Grape and Wine Research, 2022, 28, 292-303.	1.0	2
51	Intelligent Systems for Commercial Application in Perennial Horticulture. Proceedings (mdpi), 2019, 36, 59.	0.2	1
52	The effects of sustained deficit irrigation and re-watering on root production and turnover in warm climate viticulture. Acta Horticulturae, 2016, , 95-102.	0.1	0
53	A CO2 Injection System Inside an Open-Top Chamber Enclosing Mature Field-Grown Grapevines: Design and Performance. Transactions of the ASABE, 2018, 61, 1231-1239.	1.1	0
54	Altering Tetrapyrrole Biosynthesis by Overexpressing Ferrochelatases (Fc1 and Fc2) Improves Photosynthetic Efficiency in Transgenic Barley. Agronomy, 2020, 10, 1370.	1.3	0