

Ej Edwards

List of Publications by Year in descending order

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Version: 2024-02-01

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	Climate change and its consequences for viticulture. , 2022, , 727-778.		15
2	Investigating the effects of elevated temperature on salinity tolerance traits in grapevine rootstocks using high-throughput phenotyping. Australian Journal of Grape and Wine Research, 2022, 28, 276-291.	1.0	5
3	Rootstock-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
4	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
5	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
6	GABA signalling modulates stomatal opening to enhance plant water use efficiency and drought resilience. Nature Communications, 2021, 12, 1952.	5.8	92
7	Differential response of the accumulation of primary and secondary metabolites to leaf-to-fruit ratio and exogenous abscisic acid. Australian Journal of Grape and Wine Research, 2021, 27, 527-539.	1.0	7
8	Bridging the gap between data and decisions: A review of process-based models for viticulture. Agricultural Systems, 2021, 193, 103209.	3.2	14
9	Canopy density estimation in perennial horticulture crops using 3D spinning lidar SLAM. Journal of Field Robotics, 2021, 38, 598-618.	3.2	20
10	Digital Twin for the Future of Orchard Production Systems. Proceedings (mdpi), 2020, 36, .	0.2	14
11	Altering Tetrapyrrole Biosynthesis by Overexpressing Ferrochelatases (Fc1 and Fc2) Improves Photosynthetic Efficiency in Transgenic Barley. Agronomy, 2020, 10, 1370.	1.3	0
12	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
13	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
14	Gene body demethylation increases expression and is associated with self-pruning during grape genome duplication. Horticulture Research, 2020, 7, 84.	2.9	9
15	Canopy temperature of high-nitrogen water-stressed cotton. Crop Science, 2020, 60, 1513-1529.	0.8	3
16	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
17	Short sequence repeat (SSR) genotyping and sodium exclusion phenotyping of a <i>Vitis</i> hybrid population (‘K51-40’ – ‘Schwarzmann’). Acta Horticulturae, 2019, , 513-520.	0.1	3
18	Intelligent Systems for Commercial Application in Perennial Horticulture. Proceedings (mdpi), 2019, 36, 59.	0.2	1

#	ARTICLE	IF	CITATIONS
19	A whole canopy gas exchange system for the targeted manipulation of grapevine source-sink relations using sub-ambient CO ₂ . <i>BMC Plant Biology</i> , 2019, 19, 535.	1.6	9
20	Functional differences in transport properties of natural <i>HKT1;1</i> variants influence shoot Na ⁺ exclusion in grapevine rootstocks. <i>New Phytologist</i> , 2018, 217, 1113-1127.	3.5	66
21	Fast Phenomics in Vineyards: Development of G _{ROVER} , the Grapevine Rover, and LiDAR for Assessing Grapevine Traits in the Field. <i>Sensors</i> , 2018, 18, 2924.	2.1	28
22	A CO ₂ Injection System Inside an Open-Top Chamber Enclosing Mature Field-Grown Grapevines: Design and Performance. <i>Transactions of the ASABE</i> , 2018, 61, 1231-1239.	1.1	0
23	Rapid measurement of total non-structural carbohydrate concentration in grapevine trunk and leaf tissues using near infrared spectroscopy. <i>Computers and Electronics in Agriculture</i> , 2017, 136, 176-183.	3.7	25
24	Abscisic Acid Down-Regulates Hydraulic Conductance of Grapevine Leaves in Isohydric Genotypes Only. <i>Plant Physiology</i> , 2017, 175, 1121-1134.	2.3	54
25	Multi-seasonal effects of warming and elevated CO ₂ on the physiology, growth and production of mature, field grown, Shiraz grapevines. <i>Oeno One</i> , 2017, 51, 127-132.	0.7	15
26	Multi-seasonal effects of warming and elevated CO ₂ on the physiology, growth and production of mature, field grown, Shiraz grapevines. <i>Oeno One</i> , 2017, 51, 127.	0.7	3
27	VitiCanopy: A Free Computer App to Estimate Canopy Vigor and Porosity for Grapevine. <i>Sensors</i> , 2016, 16, 585.	2.1	87
28	The Synthesis and Accumulation of Resveratrol Are Associated with Veraison and Abscisic Acid Concentration in Beihong (<i>Vitis vinifera</i> × <i>Vitis amurensis</i>) Berry Skin. <i>Frontiers in Plant Science</i> , 2016, 7, 1605.	1.7	29
29	The response of commercially managed, field grown, grapevines (<i>Vitis vinifera</i> L.) to a simulated future climate consisting of elevated CO ₂ in combination with elevated air temperature. <i>Acta Horticulturae</i> , 2016, , 103-110.	0.1	7
30	The effects of sustained deficit irrigation and re-watering on root production and turnover in warm climate viticulture. <i>Acta Horticulturae</i> , 2016, , 95-102.	0.1	0
31	ABA-mediated responses to water deficit separate grapevine genotypes by their genetic background. <i>BMC Plant Biology</i> , 2016, 16, 91.	1.6	54
32	Root biomass in the upper layer of the soil profile is related to the stomatal response of wheat as the soil dries. <i>Functional Plant Biology</i> , 2016, 43, 62.	1.1	21
33	Anthocyanin biosynthesis is differentially regulated by light in the skin and flesh of white-fleshed and teinturier grape berries. <i>Planta</i> , 2016, 243, 23-41.	1.6	91
34	Reprint of "Contrasting stomatal regulation and leaf ABA concentrations in wheat genotypes when split root systems were exposed to terminal drought". <i>Field Crops Research</i> , 2014, 165, 5-14.	2.3	12
35	Contrasting stomatal regulation and leaf ABA concentrations in wheat genotypes when split root systems were exposed to terminal drought. <i>Field Crops Research</i> , 2014, 162, 77-86.	2.3	36
36	THE ROLE OF ROOTSTOCKS IN GRAPEVINE WATER USE EFFICIENCY: IMPACTS ON TRANSPIRATION, STOMATAL CONTROL AND YIELD EFFICIENCY. <i>Acta Horticulturae</i> , 2014, , 121-128.	0.1	6

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37	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
38	Expression of ABA synthesis and metabolism genes under different irrigation strategies and atmospheric VPDs is associated with stomatal conductance in grapevine (<i>Vitis vinifera</i> L. cv Cabernet) Tj ETQq0 0 0.4 BT /Overlock 10 TF		
39	A Simple Microplate Assay to Quantify Nonstructural Carbohydrates of Grapevine Tissues. American Journal of Enology and Viticulture, 2011, 62, 133-137.	0.9	18
40	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
41	Changes in Nutritional Value of Cyanogenic <i>Trifolium repens</i> Grown at Elevated Atmospheric CO ₂ . Journal of Chemical Ecology, 2009, 35, 476-478.	0.9	23
42	Nitrogen in cell walls of sclerophyllous leaves accounts for little of the variation in photosynthetic nitrogen-use efficiency. Plant, Cell and Environment, 2009, 32, 259-270.	2.8	97
43	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
44	Phosphorus availability and elevated CO ₂ affect biological nitrogen fixation and nutrient fluxes in a clover-dominated sward. New Phytologist, 2006, 169, 157-167.	3.5	66
45	Phosphorus status determines biomass response to elevated CO ₂ in a legume : C4 grass community. Global Change Biology, 2005, 11, 051013014052003-???	4.2	14
46	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
47	Does greater nighttime, 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
48	Root production is determined by radiation flux in a temperate grassland community. Global Change Biology, 2004, 10, 209-227.	4.2	84
49	Response of root respiration to changes in temperature and its relevance to global warming. New Phytologist, 2000, 147, 141-154.	3.5	358
50	The effect of prior storage on the potential of potato tubers (<i>Solanum tuberosum</i> 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
51	Is there a link between greening and light-enhanced glycoalkaloid accumulation in potato (<i>Solanum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 40	1.7	40
52	Effect of Temperature on Glycoalkaloid and Chlorophyll Accumulation in Potatoes (<i>Solanumtuberosum</i> L. 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
53	Improved High-Performance Liquid Chromatographic Method for the Analysis of Potato (<i>Solanum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 40	2.4	40
54	Seed Persistence: A Correlation Between Seed Longevity in the Soil and Ortho-Dihydroxyphenol Concentration. Functional Ecology, 1994, 8, 658.	1.7	77