Paul R Petrie

List of Publications by Year
in descending order

48 papers	1,593 citations	279798 23 h-index	315739 38 g-index
49 all docs	49 docs citations	49 times ranked	1392 citing authors

#	Article	IF	Citations
1	The effect of temperature on grapevine phenological intervals: Sensitivity of budburst to flowering. Agricultural and Forest Meteorology, 2022, 315, 108841.	4.8	10
2	Fungicide programs used to manage powdery mildew (Erysiphe necator) in Australian vineyards. Crop Protection, 2021, 139, 105369.	2.1	10
3	Impact of late pruning and elevated ambient temperature on Shiraz wine chemical and sensory attributes. Australian Journal of Grape and Wine Research, 2021, 27, 42-51.	2.1	6
4	Is advancement of grapevine maturity explained by an increase in the rate of ripening or advancement of veraison?. Australian Journal of Grape and Wine Research, 2021, 27, 334-347.	2.1	11
5	A generalised approach for high-throughput instance segmentation of stomata in microscope images. Plant Methods, 2021, 17, 27.	4.3	17
6	Soil water availability during spring modulates canopy growth and impacts the chemical and sensory composition of Shiraz fruit and wine. Australian Journal of Grape and Wine Research, 2021, 27, 491-507.	2.1	5
7	Modelling Salinity and Sodicity Risks of Long-Term Use of Recycled Water for Irrigation of Horticultural Crops. Soil Systems, 2021, 5, 49.	2.6	4
8	Advancement of grape maturity: comparison between contrasting cultivars and regions. Australian Journal of Grape and Wine Research, 2020, 26, 53-67.	2.1	22
9	Impact of low rainfall during dormancy on vine productivity and development. Australian Journal of Grape and Wine Research, 2020, 26, 325-342.	2.1	19
10	Historical and future trends in evapotranspiration components and irrigation requirement of winegrapes. Australian Journal of Grape and Wine Research, 2020, 26, 312-324.	2.1	8
11	Accelerating Automated Stomata Analysis Through Simplified Sample Collection and Imaging Techniques. Frontiers in Plant Science, 2020, 11, 580389.	3.6	15
12	Pre-Fermentation Water Addition to High-Sugar Shiraz Must: Effects on Wine Composition and Sensory Properties. Foods, 2020, 9, 1193.	4.3	6
13	Comparison of water addition and earlyâ€harvest strategies to decrease alcohol concentration in<scp>Vitis vinifera</scp>cv. Shiraz wine: impact on wine phenolics, tannin composition and colour properties. Australian Journal of Grape and Wine Research, 2020, 26, 158-171.	2.1	16
14	Assessing the role of rainfall redirection techniques for arresting the land degradation under drip irrigated grapevines. Journal of Hydrology, 2020, 587, 125000.	5.4	18
15	Impact of long-term recycled water irrigation on crop yield and soil chemical properties. Agricultural Water Management, 2020, 237, 106167.	5.6	28
16	Low-Cost Filter Selection from Spectrometer Data for Multispectral Imaging Applications. IFAC-PapersOnLine, 2019, 52, 277-282.	0.9	2
17	Modelling relationships between visible winegrape berries and bunch maturity. Australian Journal of Grape and Wine Research, 2019, 25, 116-126.	2.1	4
18	Effects of Late Pruning and Elevated Temperature on Phenology, Yield Components, and Berry Traits in Shiraz. American Journal of Enology and Viticulture, 2019, 70, 9-18.	1.7	20

#	Article	IF	Citations
19	The accuracy and utility of a low cost thermal camera and smartphone-based system to assess grapevine water status. Biosystems Engineering, 2019, 179, 126-139.	4.3	41
20	Smartphone tools for measuring vine water status. Acta Horticulturae, 2018, , 53-58.	0.2	2
21	A robust automated flower estimation system for grape vines. Biosystems Engineering, 2018, 172, 110-123.	4.3	29
22	Late pruning impacts on chemical and sensory attributes of Shiraz wine. Australian Journal of Grape and Wine Research, 2018, 24, 469-477.	2.1	16
23	Pruning after budburst to delay and spread grape maturity. Australian Journal of Grape and Wine Research, 2017, 23, 378-389.	2.1	48
24	Late pruning and carry-over effects on phenology, yield components and berry traits in Shiraz. Australian Journal of Grape and Wine Research, 2017, 23, 390-398.	2.1	33
25	Evaluation of crop coefficients, water productivity, and water balance components for wine grapes irrigated at different deficit levels by a sub-surface drip. Agricultural Water Management, 2017, 180, 22-34.	5.6	48
26	Microscope image based fully automated stomata detection and pore measurement method for grapevines. Plant Methods, 2017, 13, 94.	4.3	42
27	Resilience of grapevine yield in response to warming. Oeno One, 2017, 51, .	1.4	15
28	Application of shade treatments during Shiraz berry ripening to reduce the impact of high temperature. Australian Journal of Grape and Wine Research, 2016, 22, 422-437.	2.1	47
29	A Fast Method to Measure Stomatal Aperture by MSER on Smart Mobile Phone. , 2016, , .		11
30	Role of vineyard practices in generating and mitigating greenhouse gas emissions. Australian Journal of Grape and Wine Research, 2015, 21, 522-536.	2.1	29
31	Impact of elevated temperature and water deficit on the chemical and sensory profiles of Barossa Shiraz grapes and wines. Australian Journal of Grape and Wine Research, 2015, 21, 240-253.	2.1	90
32	Unripe Berries and Petioles in Vitis vinifera cv. Cabernet Sauvignon Fermentations Affect Sensory and Chemical Profiles. American Journal of Enology and Viticulture, 2015, 66, 435-443.	1.7	24
33	Effects of elevated temperature in grapevine. II juice pH, titratable acidity and wine sensory attributes. Australian Journal of Grape and Wine Research, 2013, 19, 107-115.	2.1	76
34	Predicting the time course of grape ripening. Australian Journal of Grape and Wine Research, 2012, 18, 48-56.	2.1	23
35	Impact of node position and bearer length on the yield components in mechanically pruned Cabernet Sauvignon (Vitis vinifera L.). Australian Journal of Grape and Wine Research, 2011, 17, 129-135.	2.1	5
36	Quantifying the onset, rate and duration of sugar accumulation in berries from commercial vineyards in contrasting climates of Australia. Australian Journal of Grape and Wine Research, 2011, 17, 190-198.	2.1	28

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37	Climate shifts in south-eastern Australia: early maturity of Chardonnay, Shiraz and Cabernet Sauvignon is associated with early onset rather than faster ripening. Australian Journal of Grape and Wine Research, 2011, 17, 199-205.	2.1	78
38	Phenotypic plasticity of yield and phenology in wheat, sunflower and grapevine. Field Crops Research, 2009, 110, 242-250.	5.1	115
39	The effect of post-veraison water deficit on yield components and maturation of irrigated Shiraz (Vitis vinifera L.) in the current and following season. Australian Journal of Grape and Wine Research, 2008, 10, 203-215.	2.1	42
40	Advancement of grapevine maturity in Australia between 1993 and 2006: putative causes, magnitude of trends and viticultural consequences. Australian Journal of Grape and Wine Research, 2008, 14, 33-45.	2.1	154
41	Climate drivers of red wine quality in four contrasting Australian wine regions. Australian Journal of Grape and Wine Research, 2008, 14, 78-90.	2.1	47
42	Racial Duties: Toward a Pragmatist Ethic of Race in W. D. Howells's An Imperative Duty. Nineteenth-Century Literature, 2008, 63, 223-254.	0.0	2
43	Quantification of time trends in vintage scores and their variability for major wine regions of Australia. Australian Journal of Grape and Wine Research, 2007, 13, 117-123.	2.1	17
44	Crop thinning (hand versus mechanical), grape maturity and anthocyanin concentration: outcomes from irrigated Cabernet Sauvignon (Vitis vinifera L.) in a warm climate. Australian Journal of Grape and Wine Research, 2006, 12, 21-29.	2.1	91
45	Effects of temperature and light (before and after budburst) on inflorescence morphology and flower number of Chardonnay grapevines (Vitis vinifera L.). Australian Journal of Grape and Wine Research, 2005, 11, 59-65.	2.1	70
46	The effect of leaf removal and canopy height on whole-vine gas exchange and fruit development of Vitis vinifera L. Sauvignon Blanc. Functional Plant Biology, 2003, 30, 711.	2.1	63
47	Growth and dry matter partitioning of Pinot Noir (Vitis vinifera L.) in relation to leaf area and crop load. Australian Journal of Grape and Wine Research, 2000, 6, 40-45.	2.1	42
48	Fruit composition and ripening of Pinot Noir (Vitis vinifera L.) in relation to leaf area. Australian Journal of Grape and Wine Research, 2000, 6, 46-51.	2.1	44