

Paul R Petrie

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Advancement of grapevine maturity in Australia between 1993 and 2006: putative causes, magnitude of trends and viticultural consequences. <i>Australian Journal of Grape and Wine Research</i> , 2008, 14, 33-45. | 2.1 | 154 |
| 2 | Phenotypic plasticity of yield and phenology in wheat, sunflower and grapevine. <i>Field Crops Research</i> , 2009, 110, 242-250. | 5.1 | 115 |
| 3 | Crop thinning (hand versus mechanical), grape maturity and anthocyanin concentration: outcomes from irrigated Cabernet Sauvignon (<i>Vitis vinifera</i> L.) in a warm climate. <i>Australian Journal of Grape and Wine Research</i> , 2006, 12, 21-29. | 2.1 | 91 |
| 4 | Impact of elevated temperature and water deficit on the chemical and sensory profiles of Barossa Shiraz grapes and wines. <i>Australian Journal of Grape and Wine Research</i> , 2015, 21, 240-253. | 2.1 | 90 |
| 5 | Climate shifts in south-eastern Australia: early maturity of Chardonnay, Shiraz and Cabernet Sauvignon is associated with early onset rather than faster ripening. <i>Australian Journal of Grape and Wine Research</i> , 2011, 17, 199-205. | 2.1 | 78 |
| 6 | Effects of elevated temperature in grapevine. II juice pH, titratable acidity and wine sensory attributes. <i>Australian Journal of Grape and Wine Research</i> , 2013, 19, 107-115. | 2.1 | 76 |
| 7 | Effects of temperature and light (before and after budburst) on inflorescence morphology and flower number of Chardonnay grapevines (<i>Vitis vinifera</i> L.). <i>Australian Journal of Grape and Wine Research</i> , 2005, 11, 59-65. | 2.1 | 70 |
| 8 | The effect of leaf removal and canopy height on whole-vine gas exchange and fruit development of <i>Vitis vinifera</i> L. Sauvignon Blanc. <i>Functional Plant Biology</i> , 2003, 30, 711. | 2.1 | 63 |
| 9 | Pruning after budburst to delay and spread grape maturity. <i>Australian Journal of Grape and Wine Research</i> , 2017, 23, 378-389. | 2.1 | 48 |
| 10 | Evaluation of crop coefficients, water productivity, and water balance components for wine grapes irrigated at different deficit levels by a sub-surface drip. <i>Agricultural Water Management</i> , 2017, 180, 22-34. | 5.6 | 48 |
| 11 | Climate drivers of red wine quality in four contrasting Australian wine regions. <i>Australian Journal of Grape and Wine Research</i> , 2008, 14, 78-90. | 2.1 | 47 |
| 12 | Application of shade treatments during Shiraz berry ripening to reduce the impact of high temperature. <i>Australian Journal of Grape and Wine Research</i> , 2016, 22, 422-437. | 2.1 | 47 |
| 13 | Fruit composition and ripening of Pinot Noir (<i>Vitis vinifera</i> L.) in relation to leaf area. <i>Australian Journal of Grape and Wine Research</i> , 2000, 6, 46-51. | 2.1 | 44 |
| 14 | Growth and dry matter partitioning of Pinot Noir (<i>Vitis vinifera</i> L.) in relation to leaf area and crop load. <i>Australian Journal of Grape and Wine Research</i> , 2000, 6, 40-45. | 2.1 | 42 |
| 15 | The effect of post-veraison water deficit on yield components and maturation of irrigated Shiraz (<i>Vitis vinifera</i> L.) in the current and following season. <i>Australian Journal of Grape and Wine Research</i> , 2008, 10, 203-215. | 2.1 | 42 |
| 16 | Microscope image based fully automated stomata detection and pore measurement method for grapevines. <i>Plant Methods</i> , 2017, 13, 94. | 4.3 | 42 |
| 17 | The accuracy and utility of a low cost thermal camera and smartphone-based system to assess grapevine water status. <i>Biosystems Engineering</i> , 2019, 179, 126-139. | 4.3 | 41 |
| 18 | Late pruning and carry-over effects on phenology, yield components and berry traits in Shiraz. <i>Australian Journal of Grape and Wine Research</i> , 2017, 23, 390-398. | 2.1 | 33 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | A robust automated flower estimation system for grape vines. Biosystems Engineering, 2018, 172, 110-123. | 4.3 | 29 |
| 21 | 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 |
| 22 | Impact of long-term recycled water irrigation on crop yield and soil chemical properties. Agricultural Water Management, 2020, 237, 106167. | 5.6 | 28 |
| 23 | Unripe Berries and Petioles in <i>Vitis vinifera</i> cv. Cabernet Sauvignon Fermentations Affect Sensory and Chemical Profiles. American Journal of Enology and Viticulture, 2015, 66, 435-443. | 1.7 | 24 |
| 24 | Predicting the time course of grape ripening. Australian Journal of Grape and Wine Research, 2012, 18, 48-56. | 2.1 | 23 |
| 25 | Advancement of grape maturity: comparison between contrasting cultivars and regions. Australian Journal of Grape and Wine Research, 2020, 26, 53-67. | 2.1 | 22 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | A generalised approach for high-throughput instance segmentation of stomata in microscope images. Plant Methods, 2021, 17, 27. | 4.3 | 17 |
| 31 | 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 |
| 32 | Comparison of water addition and early harvest strategies to decrease alcohol concentration in <i>Vitis vinifera</i> 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 |
| 33 | Accelerating Automated Stomata Analysis Through Simplified Sample Collection and Imaging Techniques. Frontiers in Plant Science, 2020, 11, 580389. | 3.6 | 15 |
| 34 | Resilience of grapevine yield in response to warming. Oeno One, 2017, 51, . | 1.4 | 15 |
| 35 | 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 |
| 36 | A Fast Method to Measure Stomatal Aperture by MSER on Smart Mobile Phone. , 2016, , . | | 11 |

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|----|--|-----|-----------|
| 37 | Fungicide programs used to manage powdery mildew (<i>Erysiphe necator</i>) in Australian vineyards. <i>Crop Protection</i> , 2021, 139, 105369. | 2.1 | 10 |
| 38 | The effect of temperature on grapevine phenological intervals: Sensitivity of budburst to flowering. <i>Agricultural and Forest Meteorology</i> , 2022, 315, 108841. | 4.8 | 10 |
| 39 | Historical and future trends in evapotranspiration components and irrigation requirement of winegrapes. <i>Australian Journal of Grape and Wine Research</i> , 2020, 26, 312-324. | 2.1 | 8 |
| 40 | Pre-Fermentation Water Addition to High-Sugar Shiraz Must: Effects on Wine Composition and Sensory Properties. <i>Foods</i> , 2020, 9, 1193. | 4.3 | 6 |
| 41 | Impact of late pruning and elevated ambient temperature on Shiraz wine chemical and sensory attributes. <i>Australian Journal of Grape and Wine Research</i> , 2021, 27, 42-51. | 2.1 | 6 |
| 42 | Impact of node position and bearer length on the yield components in mechanically pruned Cabernet Sauvignon (<i>Vitis vinifera</i> L.). <i>Australian Journal of Grape and Wine Research</i> , 2011, 17, 129-135. | 2.1 | 5 |
| 43 | Soil water availability during spring modulates canopy growth and impacts the chemical and sensory composition of Shiraz fruit and wine. <i>Australian Journal of Grape and Wine Research</i> , 2021, 27, 491-507. | 2.1 | 5 |
| 44 | Modelling relationships between visible winegrape berries and bunch maturity. <i>Australian Journal of Grape and Wine Research</i> , 2019, 25, 116-126. | 2.1 | 4 |
| 45 | Modelling Salinity and Sodicity Risks of Long-Term Use of Recycled Water for Irrigation of Horticultural Crops. <i>Soil Systems</i> , 2021, 5, 49. | 2.6 | 4 |
| 46 | Racial Duties: Toward a Pragmatist Ethic of Race in W. D. Howells's <i>An Imperative Duty</i> . <i>Nineteenth-Century Literature</i> , 2008, 63, 223-254. | 0.0 | 2 |
| 47 | Smartphone tools for measuring vine water status. <i>Acta Horticulturae</i> , 2018, , 53-58. | 0.2 | 2 |
| 48 | Low-Cost Filter Selection from Spectrometer Data for Multispectral Imaging Applications. <i>IFAC-PapersOnLine</i> , 2019, 52, 277-282. | 0.9 | 2 |