Victor O Sadras

List of Publications by Year
in descending order

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271 papers	13,150 citations	18479 62 h-index	38392 95 g-index
279 all docs	279 docs citations	279 times ranked	8569 citing authors

#	Article	IF	Citations
1	Evolutionary aspects of the trade-off between seed size and number in crops. Field Crops Research, 2007, 100, 125-138.	5.1	449
2	Coarse and fine regulation of wheat yield components in response to genotype and environment. Field Crops Research, 2014, 157, 71-83.	5.1	345
3	Soil-water thresholds for the responses of leaf expansion and gas exchange: A review. Field Crops Research, 1996, 47, 253-266.	5.1	302
4	Elevated temperature decouples anthocyanins and sugars in berries of Shiraz and Cabernet Franc. Australian Journal of Grape and Wine Research, 2012, 18, 115-122.	2.1	243
5	Environmental modulation of yield components in cereals: Heritabilities reveal a hierarchy of phenotypic plasticities. Field Crops Research, 2012, 127, 215-224.	5.1	240
6	Benchmarking water-use efficiency of rainfed wheat in dry environments. Australian Journal of Agricultural Research, 2006, 57, 847.	1.5	229
7	Genetic gain in yield and associated changes in phenotype, trait plasticity and competitive ability of South Australian wheat varieties released between 1958 and 2007. Crop and Pasture Science, 2011, 62, 533.	1.5	208
8	Seed Number as a Function of Growth. A Comparative Study in Soybean, Sunflower, and Maize. Crop Science, 2001, 41, 748-754.	1.8	174
9	How do phosphorus, potassium and sulphur affect plant growth and biological nitrogen fixation in crop and pasture legumes? A meta-analysis. Field Crops Research, 2014, 156, 161-171.	5.1	168
10	Physiology of yield expression in sunflower. Field Crops Research, 1992, 30, 333-389.	5.1	160
11	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
12	Intensification of agriculture in the south-eastern Pampas. Field Crops Research, 2004, 87, 117-129.	5.1	146
13	Water use efficiency of dryland maize in the Loess Plateau of China in response to crop management. Field Crops Research, 2014, 163, 55-63.	5.1	144
14	Response of maize kernel number to plant density in Argentinean hybrids released between 1965 and 1993. Field Crops Research, 2000, 68, 1-8.	5.1	143
15	Does partial root-zone drying improve irrigation water productivity in the field? A meta-analysis. Irrigation Science, 2009, 27, 183-190.	2.8	143
16	Spectral and thermal sensing for nitrogen and water status in rainfed and irrigated wheat environments. Precision Agriculture, 2006, 7, 233-248.	6.0	142
17	Modelled wheat phenology captures rising temperature trends: Shortened time to flowering and maturity in Australia and Argentina. Field Crops Research, 2006, 99, 136-146.	5.1	140
18	The N:P stoichiometry of cereal, grain legume and oilseed crops. Field Crops Research, 2006, 95, 13-29.	5.1	137

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19	Improvement of crop yield in dry environments: benchmarks, levels of organisation and the role of nitrogen. Journal of Experimental Botany, 2014, 65, 1981-1995.	4.8	131
20	Reproductive Allometry in Soybean, Maize and Sunflower. Annals of Botany, 2000, 85, 461-468.	2.9	130
21	Water use efficiency of dryland wheat in the Loess Plateau in response to soil and crop management. Field Crops Research, 2013, 151, 9-18.	5.1	130
22	Nitrogen and water-use efficiency of Australian wheat varieties released between 1958 and 2007. European Journal of Agronomy, 2013, 46, 34-41.	4.1	124
23	Reproductive partitioning and seed set efficiency in soybean, sunflower and maize. Field Crops Research, 2001, 72, 163-175.	5.1	119
24	Five decades of selection for yield reduced root length density and increased nitrogen uptake per unit root length in Australian wheat varieties. Plant and Soil, 2017, 413, 181-192.	3.7	118
25	Phenotypic plasticity of yield and phenology in wheat, sunflower and grapevine. Field Crops Research, 2009, 110, 242-250.	5.1	115
26	Quantifying crop nitrogen status for comparisons of agronomic practices and genotypes. Field Crops Research, 2014, 164, 54-64.	5.1	113
27	Compensatory growth in cotton after loss of reproductive organs. Field Crops Research, 1995, 40, 1-18.	5.1	109
28	Effect of nitrogen supply on crop conductance, water- and radiation-use efficiency of wheat. Field Crops Research, 2001, 69, 259-266.	5.1	105
29	Do plant parts compete for resources? An evolutionary viewpoint. New Phytologist, 2009, 183, 565-574.	7.3	102
30	Interactions between water and nitrogen in Australian cropping systems: physiological, agronomic, economic, breeding and modelling perspectives. Crop and Pasture Science, 2016, 67, 1019.	1.5	102
31	Physiological basis of the response of harvest index to the fraction of water transpired after anthesis: A simple model to estimate harvest index for determinate species. Field Crops Research, 1991, 26, 227-239.	5.1	97
32	Ontogenetic changes in radiation use efficiency of sunflower (Helianthus annuus L.) crops. Field Crops Research, 1992, 29, 301-316.	5.1	97
33	The limit to wheat water-use efficiency in eastern Australia. I. Gradients in the radiation environment and atmospheric demand. Australian Journal of Agricultural Research, 2007, 58, 287.	1.5	97
34	Comparison of sensitive stages of wheat, barley, canola, chickpea and field pea to temperature and water stress across Australia. Agricultural and Forest Meteorology, 2018, 248, 275-294.	4.8	95
35	A water-centred framework to assess the effects of salinity on the growth and yield of wheat and barley. Plant and Soil, 2010, 336, 377-389.	3.7	94
36	Quantification of Grain Yield Response to Soil Depth in Soybean, Maize, Sunflower, and Wheat. Agronomy Journal, 2001, 93, 577-583.	1.8	93

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37	Interaction between rainfall and nitrogen fertilisation of wheat in environments prone to terminal drought: economic and environmental risk analysis. Field Crops Research, 2002, 77, 201-215.	5.1	91
38	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
39	Yield response to plant density of maize and sunflower intercropped with soybean. Field Crops Research, 2011, 121, 423-429.	5.1	88
40	Profiles of Leaf Senescence During Reproductive Growth of Sunflower and Maize. Annals of Botany, 2000, 85, 187-195.	2.9	86
41	On-farm assessment of environmental and management constraints to wheat yield and efficiency in the use of rainfall in the Mallee. Australian Journal of Agricultural Research, 2002, 53, 587.	1.5	81
42	The limit to wheat water-use efficiency in eastern Australia. II. Influence of rainfall patterns. Australian Journal of Agricultural Research, 2007, 58, 657.	1.5	81
43	Radiation-use efficiency of sunflower crops: effects of specific leaf nitrogen and ontogeny. Field Crops Research, 1995, 41, 65-77.	5.1	79
44	Production and Environmental Aspects of Cropping Intensification in a Semiarid Environment of Southeastern Australia. Agronomy Journal, 2004, 96, 236-246.	1.8	79
45	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
46	Use of Lorenz curves and Gini coefficients to assess yield inequality within paddocks. Field Crops Research, 2004, 90, 303-310.	5.1	77
47	Irrigated Shiraz vines (Vitis vinifera) upregulate gas exchange and maintain berry growth in response to short spells of high maximum temperature in the field. Functional Plant Biology, 2009, 36, 801.	2.1	76
48	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
49	Yield and water-use efficiency of water- and nitrogen-stressed wheat crops increase with degree of co-limitation. European Journal of Agronomy, 2004, 21, 455-464.	4.1	73
50	Estimating yield gaps at the cropping system level. Field Crops Research, 2017, 206, 21-32.	5.1	73
51	Development, growth and yield of late-sown soybean in the southern Pampas. European Journal of Agronomy, 2003, 19, 265-275.	4.1	72
52	A quantitative top-down view of interactions between stresses: theory and analysis of nitrogen - water co-limitation in Mediterranean agro-ecosystems. Australian Journal of Agricultural Research, 2005, 56, 1151.	1.5	72
53	Nonlinear effects of elevated temperature on grapevine phenology. Agricultural and Forest Meteorology, 2013, 173, 107-115.	4.8	71
54	Canopy nitrogen distribution and the photosynthetic performance of sunflower crops during grain filling ? a quantitative analysis. Oecologia, 1995, 101, 274-281.	2.0	70

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55	Review: critical appraisal of methods to investigate the effect of temperature on grapevine berry composition. Australian Journal of Grape and Wine Research, 2015, 21, 1-17.	2.1	70
56	Water productivity of rainfed maize and wheat: A local to global perspective. Agricultural and Forest Meteorology, 2018, 259, 364-373.	4.8	70
57	Physiological Determinants of Crop Growth and Yield in Maize, Sunflower and Soybean. Journal of Crop Improvement, 2005, 14, 51-101.	1.7	69
58	Effect of Nitrogen Content on the Photosynthetic Characteristics of Sunflower Leaves. Functional Plant Biology, 1993, 20, 251.	2.1	68
59	Crop responses to compacted soil: capture and efficiency in the use of water and radiation. Field Crops Research, 2005, 91, 131-148.	5.1	68
60	Allometric approach to crop nutrition and implications for crop diagnosis and phenotyping. A review. Agronomy for Sustainable Development, 2019, 39, 1.	5.3	67
61	Photosynthetic traits in Australian wheat varieties released between 1958 and 2007. Field Crops Research, 2012, 134, 19-29.	5.1	66
62	Cotton compensatory growth after loss of reproductive organs as affected by availability of resources and duration of recovery period. Oecologia, 1996, 106, 432-439.	2.0	64
63	Dynamic cropping strategies for risk management in dry-land farming systems. Agricultural Systems, 2003, 76, 929-948.	6.1	64
64	Maize Evapotranspiration and Waterâ€Use Efficiency in Response to Row Spacing. Agronomy Journal, 2012, 104, 939-944.	1.8	64
65	Contribution of summer rainfall and nitrogen to the yield and water use efficiency of wheat in Mediterranean-type environments of South Australia. European Journal of Agronomy, 2012, 36, 41-54.	4.1	64
66	Measuring and modelling yield and water budget components of wheat crops in coarse-textured soils with chemical constraints. Field Crops Research, 2003, 84, 241-260.	5.1	63
67	Adaptation of wheat, barley, canola, field pea and chickpea to the thermal environments of Australia. Crop and Pasture Science, 2015, 66, 1137.	1.5	63
68	Interannual variation in soybean yield: interaction among rainfall, soil depth and crop management. Field Crops Research, 1999, 63, 237-246.	5.1	62
69	Kernel weight and its response to source manipulations during grain filling in Argentinean maize hybrids released in different decades. Field Crops Research, 2006, 96, 307-312.	5.1	62
70	Modelling the nitrogen-driven trade-off between nitrogen utilisation efficiency and water use efficiency of wheat in eastern Australia. Field Crops Research, 2010, 118, 297-305.	5.1	61
71	Water use efficiency in perennial forage species: Interactions between nitrogen nutrition and water deficit. Field Crops Research, 2018, 222, 1-11.	5.1	61
72	Interplay between nitrogen fertilizer and biological nitrogen fixation in soybean: implications on seed yield and biomass allocation. Scientific Reports, 2018, 8, 17502.	3.3	61

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73	On-farm assessment of constraints to wheat yield in the south-eastern Pampas. Field Crops Research, 2002, 74, 1-11.	5.1	59
74	Genetic improvement of sunflower in Argentina between 1930 and 1995. I. Yield and its components. Field Crops Research, 1999, 62, 157-166.	5.1	58
75	Nitrogen utilization efficiency in maize as affected by hybrid and N rate in late-sown crops. Field Crops Research, 2014, 168, 27-37.	5.1	58
76	Effect of fruit load on oil yield components and dynamics of fruit growth and oil accumulation in olive (Olea europaea L.). European Journal of Agronomy, 2010, 32, 249-254.	4.1	57
77	Light-associated nitrogen distribution profile in flowering canopies of sunflower (Helianthus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	2.0	56
78	Spatial assessment of the physiological status of wheat crops as affected by water and nitrogen supply using infrared thermal imagery. Australian Journal of Agricultural Research, 2005, 56, 983.	1.5	56
79	Planting density effects on dry matter partitioning and productivity of sunflower hybrids. Field Crops Research, 1994, 36, 1-11.	5.1	55
80	Quantification of environmental and management effects on the yield of late-sown soybean. Field Crops Research, 2003, 83, 67-77.	5.1	55
81	Size-Dependent Growth and the Development Of Inequality in Maize, Sunflower and Soybean. Annals of Botany, 2003, 91, 795-805.	2.9	55
82	Spatial impact of projected changes in rainfall and temperature on wheat yields in Australia. Climatic Change, 2013, 117, 163-179.	3.6	55
83	Dynamics of rooting and root-length: leaf-area relationships as affected by plant population in sunflower crops. Field Crops Research, 1989, 22, 45-57.	5.1	54
84	Effect of Verticillium dahliae on Photosynthesis, Leaf Expansion and Senescence of Field-grown Sunflower. Annals of Botany, 2000, 86, 1007-1015.	2.9	54
85	Yield and Quality of Wheat and Soybean in Soleâ€•and Doubleâ€Cropping. Agronomy Journal, 2011, 103, 1081-1089.	1.8	54
86	Water and thermal regimes for field pea in Australia and their implications for breeding. Crop and Pasture Science, 2012, 63, 33.	1.5	54
87	Yield, yield components and source-sink relationships in water-stressed sunflower. Field Crops Research, 1993, 31, 27-39.	5.1	53
88	Genetic improvement of sunflower in Argentina between 1930 and 1995. Field Crops Research, 2000, 67, 215-221.	5.1	52
89	How to Succeed by Doing Nothing. Crop Science, 2003, 43, 2125-2134.	1.8	52
90	Shiraz vines maintain yield in response to a 2â€“4Â°C increase in maximum temperature using an open-top heating system at key phenostages. European Journal of Agronomy, 2009, 31, 250-258.	4.1	52

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91	Influence of size of rainfall events on water-driven processes. I. Water budget of wheat crops in south-eastern Australia. Australian Journal of Agricultural Research, 2003, 54, 341.	1.5	51
92	Modelling management strategies for wheatâ€“soybean double crops in the south-eastern Pampas. Field Crops Research, 2007, 101, 44-52.	5.1	51
93	Shifts in Soybean Yield, Nutrient Uptake, and Nutrient Stoichiometry: A Historical Synthesisâ€Analysis. Crop Science, 2018, 58, 43-54.	1.8	51
94	Elevated temperature altered the reaction norms of stomatal conductance in field-grown grapevine. Agricultural and Forest Meteorology, 2012, 165, 35-42.	4.8	50
95	The critical period for yield determination in chickpea (Cicer arietinum L.). Field Crops Research, 2014, 168, 1-7.	5.1	50
96	Phenotypic plasticity and its genetic regulation for yield, nitrogen fixation and Î´¹³C in chickpea crops under varying water regimes. Journal of Experimental Botany, 2016, 67, 4339-4351.	4.8	50
97	Fallow soil evaporation and water storage as affected by stubble in sub-humid (Argentina) and semi-arid (Australia) environments. Field Crops Research, 2006, 98, 83-90.	5.1	49
98	Tailoring NPK fertilizer application to precipitation for dryland winter wheat in the Loess Plateau. Field Crops Research, 2017, 209, 88-95.	5.1	49
99	Phenotypic plasticity of yield and agronomic traits in cereals and rapeseed at high latitudes. Field Crops Research, 2011, 124, 261-269.	5.1	48
100	Elevated temperature and water stress accelerate mesocarp cell death and shrivelling, and decouple sensory traits in Shiraz berries. Irrigation Science, 2013, 31, 1317-1331.	2.8	48
101	Pruning after budburst to delay and spread grape maturity. Australian Journal of Grape and Wine Research, 2017, 23, 378-389.	2.1	48
102	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
103	Effects of elevated temperature in grapevine. I Berry sensory traits. Australian Journal of Grape and Wine Research, 2013, 19, 95-106.	2.1	47
104	Light-mediated self-organization of sunflower stands increases oil yield in the field. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7975-7980.	7.1	46
105	Reproductive Allocation of Cotton in Response to Plant and Environmental Factors. Annals of Botany, 1997, 80, 75-81.	2.9	45
106	On-farm assessment of regional and seasonal variation in sunflower yield in Argentina. Agricultural Systems, 2001, 67, 83-103.	6.1	45
107	Waterâ€“Nitrogen Colimitation in Grain Crops. Advances in Agronomy, 2018, , 231-274.	5.2	45
108	Leaf Expansion in Fieldâ€Grown Sunflower in Response to Soil and Leaf Water Status. Agronomy Journal, 1993, 85, 564-570.	1.8	44

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109	Precision agriculture based on crop physiological principles improves whole-farm yield and profit: A case study. European Journal of Agronomy, 2018, 99, 62-71.	4.1	44
110	Cotton responses to simulated insect damage: Radiation-use efficiency, canopy architecture and leaf nitrogen content as affected by loss of reproductive organs. Field Crops Research, 1996, 48, 199-208.	5.1	43
111	Seed Size Variation in Grain Crops: Allometric Relationships between Rate and Duration of Seed Growth. Crop Science, 2008, 48, 408-416.	1.8	43
112	Nitrogen supply and sink demand modulate the patterns of leaf senescence in maize. Field Crops Research, 2018, 225, 92-103.	5.1	43
113	Changes in the Phenotype of Winter Wheat Varieties Released Between 1920 and 2016 in Response to In-Furrow Fertilizer: Biomass Allocation, Yield, and Grain Protein Concentration. Frontiers in Plant Science, 2019, 10, 1786.	3.6	43
114	Quantification of temperature, photoperiod and population effects on plant leaf area in sunflower crops. Field Crops Research, 1988, 18, 185-196.	5.1	42
115	Quantifying the dynamics of sugar concentration in berries of Vitis vinifera cv. Shiraz: a novel approach based on allometric analysis. Australian Journal of Grape and Wine Research, 2007, 13, 66-71.	2.1	42
116	Transpiration efficiency in crops of semi-dwarf and standard-height sunflower. Irrigation Science, 1991, 12, 87.	2.8	41
117	Profiles of Leaf Nitrogen and Light in Reproductive Canopies of Cotton (Gossypium hirsutum). Annals of Botany, 2001, 87, 325-333.	2.9	41
118	Evaluation of historic Australian wheat varieties reveals increased grain yield and changes in senescence patterns but limited adaptation to tillage systems. Field Crops Research, 2017, 206, 65-73.	5.1	41
119	Water Deficit Enhanced Cotton Resistance to Spider Mite Herbivory. Annals of Botany, 1998, 81, 273-286.	2.9	40
120	Screening field pea for adaptation to water and heat stress: Associations between yield, crop growth rate and seed abortion. Field Crops Research, 2013, 150, 63-73.	5.1	40
121	Neither crop genetics nor crop management can be optimised. Field Crops Research, 2016, 189, 75-83.	5.1	40
122	Hypoxia in grape berries: the role of seed respiration and lenticels on the berry pedicel and the possible link to cell death. Journal of Experimental Botany, 2018, 69, 2071-2083.	4.8	40
123	Accounting for soil moisture improves prediction of flowering time in chickpea and wheat. Scientific Reports, 2019, 9, 7510.	3.3	40
124	Legume-oilseed intercropping in mechanised broadacre agriculture â€“ a review. Field Crops Research, 2021, 260, 107980.	5.1	40
125	Quantifying phenotypic plasticity of berry traits using an allometric-type approach: A case study on anthocyanins and sugars in berries of Cabernet Sauvignon. Australian Journal of Grape and Wine Research, 2007, 13, 72-80.	2.1	38
126	Modelling variety-dependent dynamics of soluble solids and water in berries ofVitis vinifera. Australian Journal of Grape and Wine Research, 2008, 14, 250.	2.1	38

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127	Unscrambling confounded effects of sowing date trials to screen for crop adaptation to high temperature. Field Crops Research, 2015, 177, 1-8.	5.1	38
128	Defining upper limits of nitrogen uptake and nitrogen use efficiency of potato in response to crop N supply. Field Crops Research, 2019, 239, 38-46.	5.1	38
129	The interplay between the effectiveness of the grassâ€endophyte mutualism and the genetic variability of the host plant. Evolutionary Applications, 2010, 3, 538-546.	3.1	37
130	Regulation of evapotranspiration, and its partitioning between transpiration and soil evaporation by sunflower crops: a comparison between hybrids of different stature. Field Crops Research, 1991, 28, 17-37.	5.1	36
131	Impact of subsoil constraints on wheat yield and gross margin on fine-textured soils of the southern Victorian Mallee. Australian Journal of Agricultural Research, 2006, 57, 355.	1.5	36
132	Effect of elevated temperature on the onset and rate of mesocarp cell death in berries of Shiraz and Chardonnay and its relationship with berry shrivel. Australian Journal of Grape and Wine Research, 2013, 19, 87-94.	2.1	35
133	Leaf responses to soil water deficits: Comparative sensitivity of leaf expansion rate and leaf conductance in field-grown sunflower (Helianthus annuus L.). Plant and Soil, 1993, 153, 189-194.	3.7	34
134	Growth Analysis of Cotton Crops Infested with Spider Mites: I. Light Interception and Radiationâ€Use Efficiency. Crop Science, 1997, 37, 481-491.	1.8	34
135	Diagnosis of S deficiency in soybean crops: Performance of S and N:S determinations in leaf, shoot and seed. Field Crops Research, 2015, 180, 167-175.	5.1	34
136	The critical period for yield determination in oat (Avena sativa L.). Field Crops Research, 2016, 199, 109-116.	5.1	34
137	Making science more effective for agriculture. Advances in Agronomy, 2020, , 153-177.	5.2	34
138	Patterns of water stress and temperature for Australian chickpea production. Crop and Pasture Science, 2016, 67, 204.	1.5	33
139	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
140	Modelling the intraspecific variation in the dynamics of fruit growth, oil and water concentration in olive (Olea europaea L.). European Journal of Agronomy, 2012, 38, 83-93.	4.1	32
141	Benchmarking nitrogen utilisation efficiency in wheat for Mediterranean and non-Mediterranean European regions. Field Crops Research, 2019, 241, 107573.	5.1	32
142	Simulated yield advantages of extending post-flowering development at the expense of a shorter pre-flowering development in soybean. Field Crops Research, 2007, 101, 321-330.	5.1	30
143	Effect of irrigation and tree density on vegetative growth, oil yield and water use efficiency in young olive orchard under arid conditions in Mendoza, Argentina. Irrigation Science, 2015, 33, 429-440.	2.8	30
144	Independent genetic control of maize (Zea mays L.) kernel weight determination and its phenotypic plasticity. Journal of Experimental Botany, 2014, 65, 4479-4487.	4.8	29

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145	Water Stress Scatters Nitrogen Dilution Curves in Wheat. Frontiers in Plant Science, 2018, 9, 406.	3.6	29
146	Assessing variation in maize grain nitrogen concentration and its implications for estimating nitrogen balance in the US North Central region. Field Crops Research, 2019, 240, 185-193.	5.1	29
147	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
148	A large-scale, open-top system to increase temperature in realistic vineyard conditions. Agricultural and Forest Meteorology, 2012, 154-155, 187-194.	4.8	27
149	The importance of water-soluble carbohydrates in the theoretical framework for nitrogen dilution in shoot biomass of wheat. Field Crops Research, 2016, 193, 196-200.	5.1	27
150	Allometric relationships between nitrogen uptake and transpiration to untangle interactions between nitrogen supply and drought in maize and sorghum. European Journal of Agronomy, 2020, 120, 126145.	4.1	27
151	Intraspecific competition and fungal diseases as sources of variation in sunflower yield. Field Crops Research, 2000, 67, 51-58.	5.1	26
152	Special issue on water management in grapevines. Irrigation Science, 2012, 30, 335-337.	2.8	26
153	Modelling long-term effects of cropping intensification reveals increased water and radiation productivity in the South-eastern Pampas. Field Crops Research, 2013, 149, 300-311.	5.1	26
154	The phenotype and the components of phenotypic variance of crop traits. Field Crops Research, 2013, 154, 255-259.	5.1	26
155	Soybean shows an attenuated nitrogen dilution curve irrespective of maturity group and sowing date. Field Crops Research, 2016, 186, 1-9.	5.1	26
156	Oat phenotypes for drought adaptation and yield potential. Field Crops Research, 2017, 212, 135-144.	5.1	26
157	Responses of flavonoid profile and associated gene expression to solar blue and UV radiation in two accessions of Vicia faba L. from contrasting UV environments. Photochemical and Photobiological Sciences, 2019, 18, 434-447.	2.9	26
158	A global meta-analysis of split nitrogen application for improved wheat yield and grain protein content. Soil and Tillage Research, 2021, 213, 105111.	5.6	26
159	Phenotypic plasticity of stem water potential correlates with crop load in horticultural trees. Tree Physiology, 2011, 31, 494-499.	3.1	25
160	Effects of the source:sink ratio on the phenotypic plasticity of stem water potential in olive (Olea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.8	24
161	Yield and water use efficiency of wheat in the Loess Plateau: Responses to root pruning and defoliation. Field Crops Research, 2015, 179, 6-11.	5.1	24
162	Effect of water stress and elevated temperature on hypoxia and cell death in the mesocarp of Shiraz berries. Australian Journal of Grape and Wine Research, 2018, 24, 487-497.	2.1	24

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163	Yield determination and the critical period of faba bean (Vicia faba L.). Field Crops Research, 2019, 241, 107575.	5.1	24
164	Interactive effects of high temperature and water deficit on Malbec grapevines. Australian Journal of Grape and Wine Research, 2019, 25, 345-356.	2.1	24
165	Predicting the time course of grape ripening. Australian Journal of Grape and Wine Research, 2012, 18, 48-56.	2.1	23
166	Nitrogen fertilization modifies maize yield response to tillage and stubble in a sub-humid tropical environment. Field Crops Research, 2018, 223, 113-124.	5.1	23
167	Environmental risk analysis of farming systems in a semi-arid environment: effect of rotations and management practices on deep drainage. Field Crops Research, 2005, 94, 257-271.	5.1	21
168	Modelled yield and water use efficiency of maize in response to crop management and Southern Oscillation Index in a soil-climate transect in Argentina. Field Crops Research, 2012, 130, 8-18.	5.1	21
169	Negative association between chickpea response to competition and crop yield: Phenotypic and genetic analysis. Field Crops Research, 2016, 196, 409-417.	5.1	21
170	Population-level compensation after loss of vegetative buds: interactions among damaged and undamaged cotton neighbours. Oecologia, 1996, 106, 417-423.	2.0	20
171	Genetic improvement of sunflower in Argentina between 1930 and 1995. Field Crops Research, 1999, 63, 247-254.	5.1	20
172	Influence of size of rainfall events on water-driven processes. II. Soil nitrogen mineralisation in a semi-arid environment. Australian Journal of Agricultural Research, 2003, 54, 353.	1.5	20
173	Crop rotation effect on wheat grain yield as mediated by changes in the degree of water and nitrogen co-limitation. Australian Journal of Agricultural Research, 2004, 55, 599.	1.5	20
174	Physiological Responses of Cotton to Two-Spotted Spider Mite Damage. Crop Science, 2004, 44, 835.	1.8	20
175	Shifts in nitrogen and phosphorus uptake and allocation in response to selection for yield in Chinese winter wheat. Crop and Pasture Science, 2017, 68, 807.	1.5	20
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