

# Roger Lawes

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

1,221  
citations

361296

20  
h-index

414303

32  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1375  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adoption of variable rate fertiliser application in the Australian grains industry: status, issues and prospects. <i>Precision Agriculture</i> , 2012, 13, 181-199.	3.1	148
2	Evaluation of weed eradication programs: the delimitation of extent. <i>Diversity and Distributions</i> , 2005, 11, 435-442.	1.9	88
3	Determinants of the proportion of break crops on Western Australian broadacre farms. <i>Crop and Pasture Science</i> , 2010, 61, 203.	0.7	57
4	Integrating the effects of climate and plant available soil water holding capacity on wheat yield. <i>Field Crops Research</i> , 2009, 113, 297-305.	2.3	56
5	Towards a national, remote-sensing-based model for predicting field-scale crop yield. <i>Field Crops Research</i> , 2018, 227, 79-90.	2.3	54
6	Crop area increases drive earlier and dry sowing in Western Australia: implications for farming systems. <i>Crop and Pasture Science</i> , 2016, 67, 1268.	0.7	49
7	Seeking simultaneous improvements in farm profit and natural resource indicators: a modelling analysis. <i>Animal Production Science</i> , 2009, 49, 826.	0.6	39
8	Needle in a haystack: Mapping rare and infrequent crops using satellite imagery and data balancing methods. <i>Remote Sensing of Environment</i> , 2019, 233, 111375.	4.6	37
9	Evaluation of the Australian Branched Broomrape ( <i>Orobanche ramosa</i> ) Eradication Program. <i>Weed Science</i> , 2007, 55, 644-651.	0.8	34
10	A longitudinal examination of business performance indicators for drought-affected farms. <i>Agricultural Systems</i> , 2012, 106, 94-101.	3.2	33
11	The Land Use Sequence Optimiser (LUSO): A theoretical framework for analysing crop sequences in response to nitrogen, disease and weed populations. <i>Crop and Pasture Science</i> , 2010, 61, 835.	0.7	32
12	Whole farm implications on the application of variable rate technology to every cropped field. <i>Field Crops Research</i> , 2011, 124, 142-148.	2.3	30
13	A Simple Method for the Analysis of On-Farm Strip Trials. <i>Agronomy Journal</i> , 2012, 104, 371-377.	0.9	30
14	How well can APSIM simulate nitrogen uptake and nitrogen fixation of legume crops?. <i>Field Crops Research</i> , 2016, 187, 35-48.	2.3	28
15	Sacrificial grazing of wheat crops: identifying tactics and opportunities in Western Australia's grainbelt using simulation approaches. <i>Animal Production Science</i> , 2009, 49, 797.	0.6	27
16	Predicting Cereal Root Disease in Western Australia Using Soil DNA and Environmental Parameters. <i>Phytopathology</i> , 2015, 105, 1069-1079.	1.1	26
17	Comparison of machine learning algorithms for classification of LiDAR points for characterization of canola canopy structure. <i>International Journal of Remote Sensing</i> , 2019, 40, 5973-5991.	1.3	26
18	The shifting influence of future water and temperature stress on the optimal flowering period for wheat in Western Australia. <i>Science of the Total Environment</i> , 2020, 737, 139707.	3.9	23

#	ARTICLE	IF	CITATIONS
19	A bio-economic evaluation of the profitability of adopting subtropical grasses and pasture-cropping on cropâ€“livestock farms. <i>Agricultural Systems</i> , 2012, 106, 102-112.	3.2	22
20	Nationwide crop yield estimation based on photosynthesis and meteorological stress indices. <i>Agricultural and Forest Meteorology</i> , 2020, 284, 107872.	1.9	22
21	Applications of industry information in sugarcane production systems. <i>Field Crops Research</i> , 2005, 92, 353-363.	2.3	21
22	Assessing regional farming system diversity using a mixed methods typology: the value of comparative agriculture tested in broadacre Australia. <i>Geoforum</i> , 2018, 90, 183-205.	1.4	21
23	Optimal Nitrogen Rate Can Be Predicted Using Average Yield and Estimates of Soil Water and Leaf Nitrogen with Infield Experimentation. <i>Agronomy Journal</i> , 2019, 111, 1155-1164.	0.9	20
24	Applying more nitrogen is not always sufficient to address dryland wheat yield gaps in Australia. <i>Field Crops Research</i> , 2021, 262, 108033.	2.3	19
25	How will the next-generation of sensor-based decision systems look in the context of intelligent agriculture? A case-study. <i>Field Crops Research</i> , 2021, 270, 108205.	2.3	17
26	Grain yield responsiveness to water supply in near-isogenic reduced-tillering wheat lines â€“ An engineered crop trait near its upper limit. <i>European Journal of Agronomy</i> , 2019, 102, 33-38.	1.9	16
27	Has historic climate change affected the spatial distribution of water-limited wheat yield across Western Australia?. <i>Climatic Change</i> , 2020, 159, 347-364.	1.7	16
28	Trends in grain production and yield gaps in the high-rainfall zone of southern Australia. <i>Crop and Pasture Science</i> , 2016, 67, 921.	0.7	15
29	Commercially available wheat cultivars are broadly adapted to location and time of sowing in Australiaâ€™s grain zone. <i>European Journal of Agronomy</i> , 2016, 77, 38-46.	1.9	15
30	How well do we need to estimate plant-available water capacity to simulate water-limited yield potential?. <i>Agricultural Water Management</i> , 2019, 212, 441-447.	2.4	15
31	Effect of subtropical perennial grass pastures on nutrients and carbon in coarse-textured soils in a Mediterranean climate. <i>Soil Research</i> , 2012, 50, 551.	0.6	14
32	Pasture cropping with C4 grasses in a barleyâ€“lupin rotation can increase production. <i>Crop and Pasture Science</i> , 2014, 65, 1002.	0.7	14
33	Spatial patterns of estimated optimal flowering period of wheat across the southwest of Western Australia. <i>Field Crops Research</i> , 2020, 247, 107710.	2.3	14
34	Selecting higher nutritive value annual pasture legumes increases the profitability of sheep production. <i>Agricultural Systems</i> , 2021, 194, 103272.	3.2	14
35	The evaluation of the spatial and temporal stability of sugarcane farm performance based on yield and commercial cane sugar. <i>Australian Journal of Agricultural Research</i> , 2004, 55, 335.	1.5	13
36	Gaining insight into the risks, returns and value of perfect knowledge for crop sequences by comparing optimal sequences with those proposed by agronomists. <i>Crop and Pasture Science</i> , 2015, 66, 622.	0.7	13

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37	Evaluating the contribution of take-all control to the break-crop effect in wheat. <i>Crop and Pasture Science</i> , 2013, 64, 563.	0.7	12
38	Capturing the in-field spatial - temporal dynamic of yield variation. <i>Crop and Pasture Science</i> , 2009, 60, 834.	0.7	11
39	Modelling phenological and agronomic adaptation options for narrow-leafed lupins in the southern grainbelt of Western Australia. <i>European Journal of Agronomy</i> , 2017, 89, 140-147.	1.9	10
40	Comparing agglomerative clustering and three weed classification frameworks to assess the invasiveness of alien species across spatial scales. <i>Diversity and Distributions</i> , 2006, 12, 633-644.	1.9	9
41	Genotype × environment interactions for phenological adaptation in narrow-leafed lupin: A simulation study with a parameter optimized model. <i>Field Crops Research</i> , 2016, 197, 28-38.	2.3	8
42	Comparative agriculture methods capture distinct production practices across a broadacre Australian landscape. <i>Agriculture, Ecosystems and Environment</i> , 2016, 233, 381-395.	2.5	7
43	Does re-vegetating poor-performing patches in agricultural fields improve ecosystem function in the northern sandplain of the Western Australian wheatbelt?. <i>Crop and Pasture Science</i> , 2009, 60, 912.	0.7	7
44	Modelling Within-Season Variation in Light Use Efficiency Enhances Productivity Estimates for Cropland. <i>Remote Sensing</i> , 2022, 14, 1495.	1.8	7
45	Considering long-term ecological effects on future land-use options when making tactical break-crop decisions in cropping systems. <i>Crop and Pasture Science</i> , 2015, 66, 610.	0.7	6
46	To Blend or Not to Blend? A Framework for Nationwide Landsat MODIS Data Selection for Crop Yield Prediction. <i>Remote Sensing</i> , 2020, 12, 1653.	1.8	6
47	Statistical emulators of a plant growth simulation model. <i>Climate Research</i> , 2013, 55, 253-265.	0.4	6
48	Graincast: monitoring crop production across the Australian grainbelt. <i>Crop and Pasture Science</i> , 2023, 74, 509-523.	0.7	5
49	Modelling the comparative growth, water use and productivity of the perennial legumes, teder (Bituminaria bituminosa var. albomarginata) and lucerne (Medicago sativa) in dryland mixed farming systems. <i>Crop and Pasture Science</i> , 2017, 68, 643.	0.7	3
50	Climate drivers provide valuable insights into late season prediction of Australian wheat yield. <i>Agricultural and Forest Meteorology</i> , 2020, 295, 108202.	1.9	3
51	Methods to Study Agricultural Systems. <i>Sustainable Agriculture Reviews</i> , 2017, , 115-148.	0.6	2
52	Chickpea and lentil show little genetic variation in emergence ability and rate from deep sowing, but small-sized seed produces less vigorous seedlings. <i>Crop and Pasture Science</i> , 2022, , .	0.7	1