

Murray J Unkovich

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,582
citations

201575

27
h-index

243529

44
g-index

46
all docs

46
docs citations

46
times ranked

2436
citing authors

#	ARTICLE	IF	CITATIONS
1	An appraisal of recent field measurements of symbiotic N ₂ fixation by annual legumes. <i>Field Crops Research</i> , 2000, 65, 211-228.	2.3	321
2	Potential precision of the $\delta^{15}\text{N}$ natural abundance method in field estimates of nitrogen fixation by crop and pasture legumes in south-west Australia. <i>Australian Journal of Agricultural Research</i> , 1994, 45, 119.	1.5	161
3	Variability in Harvest Index of Grain Crops and Potential Significance for Carbon Accounting. <i>Advances in Agronomy</i> , 2010, 105, 173-219.	2.4	150
4	Prospects and problems of simple linear models for estimating symbiotic N ₂ fixation by crop and pasture legumes. <i>Plant and Soil</i> , 2010, 329, 75-89.	1.8	145
5	Net nitrogen balances for cool-season grain legume crops and contributions to wheat nitrogen uptake: a review. <i>Australian Journal of Experimental Agriculture</i> , 2001, 41, 347.	1.0	118
6	^{15}N natural abundance of plant and soil components of a <i>Banksia</i> woodland ecosystem in relation to nitrate utilization, life form, mycorrhizal status and N ₂ -fixing abilities of component species. <i>Plant, Cell and Environment</i> , 1993, 16, 365-373.	2.8	115
7	Nitrogen fixation by annual legumes in Australian Mediterranean agriculture. <i>Australian Journal of Agricultural Research</i> , 1997, 48, 267.	1.5	112
8	Interactions between water and nitrogen in Australian cropping systems: physiological, agronomic, economic, breeding and modelling perspectives. <i>Crop and Pasture Science</i> , 2016, 67, 1019.	0.7	102
9	Productivity and sustainability of a spring wheat–field pea rotation in a semi-arid environment under conventional and conservation tillage systems. <i>Field Crops Research</i> , 2008, 107, 43-55.	2.3	95
10	Methodologies for estimating nitrogen transfer between legumes and companion species in agro-ecosystems: A review of ^{15}N -enriched techniques. <i>Soil Biology and Biochemistry</i> , 2014, 73, 10-21.	4.2	87
11	Factors affecting soil acidification under legumes. III. Acid production by N ₂ -fixing legumes as influenced by nitrate supply. <i>New Phytologist</i> , 1999, 143, 513-521.	3.5	82
12	Isotope discrimination provides new insight into biological nitrogen fixation. <i>New Phytologist</i> , 2013, 198, 643-646.	3.5	79
13	Characteristics of inorganic nitrogen assimilation of plants in fire-prone Mediterranean-type vegetation. <i>Plant, Cell and Environment</i> , 1993, 16, 351-363.	2.8	74
14	Selection of reference plants for ^{15}N natural abundance assessment of N ₂ fixation by crop and pasture legumes in south-west Australia. <i>Australian Journal of Agricultural Research</i> , 1994, 45, 133.	1.5	68
15	Can differences in ^{15}N natural abundance be used to quantify the transfer of nitrogen from legumes to neighbouring non-legume plant species?. <i>Soil Biology and Biochemistry</i> , 2015, 87, 97-109.	4.2	67
16	Farming systems of the Loess Plateau, Gansu Province, China. <i>Agriculture, Ecosystems and Environment</i> , 2008, 124, 13-23.	2.5	62
17	Measurement of asymbiotic N ₂ fixation in Australian agriculture. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2915-2921.	4.2	58
18	Nitrogen benefits of lupins, field pea, and chickpea to wheat production in south-eastern Australia. <i>Australian Journal of Agricultural Research</i> , 1997, 48, 39.	1.5	52

#	ARTICLE	IF	CITATIONS
19	The Nitrogen Cycle in Terrestrial Ecosystems. , 2007, , 37-64.		50
20	Soil water, soil nitrogen and productivity of lucerne-wheat sequences on deep silt loams in a summer dominant rainfall environment. <i>Field Crops Research</i> , 2009, 111, 97-108.	2.3	47
21	Nitrogen Balance of Field Pea Crops in South Western Australia, Studied Using the 15N Natural Abundance Technique. <i>Functional Plant Biology</i> , 1994, 21, 533.	1.1	45
22	Field measurements of bare soil evaporation and crop transpiration, and transpiration efficiency, for rainfed grain crops in Australia - A review. <i>Agricultural Water Management</i> , 2018, 205, 72-80.	2.4	41
23	Nitrogen fixation in Australian dairy systems: review and prospect. <i>Crop and Pasture Science</i> , 2012, 63, 787.	0.7	35
24	Insufficient nitrogen supply from symbiotic fixation reduces seasonal crop growth and nitrogen mobilization to seed in highly productive soybean crops. <i>Plant, Cell and Environment</i> , 2020, 43, 1958-1972.	2.8	35
25	Effects of grazing on plant and soil nitrogen relations of pasture-crop rotations. <i>Australian Journal of Agricultural Research</i> , 1998, 49, 475.	1.5	35
26	Fertilizer nitrogen in fertigated coffee crop: Absorption changes in plant compartments over time. <i>Field Crops Research</i> , 2011, 124, 369-377.	2.3	34
27	Responses of native woody taxa in Banksia woodland to incursion of groundwater and nutrients from bordering agricultural land. <i>Australian Journal of Botany</i> , 2000, 48, 777.	0.3	28
28	Water use, competition, and crop production in low rainfall, alley farming systems of south-eastern Australia. <i>Australian Journal of Agricultural Research</i> , 2003, 54, 751.	1.5	28
29	Preparation of plant samples for high precision nitrogen isotope ratio analysis. <i>Communications in Soil Science and Plant Analysis</i> , 1993, 24, 2093-2106.	0.6	27
30	Symbiotic effectiveness and tolerance to early season nitrate in indigenous populations of subterranean clover rhizobia from S.W. Australian pastures. <i>Soil Biology and Biochemistry</i> , 1998, 30, 1435-1443.	4.2	23
31	Symbiotic N ₂ fixation and nitrate utilisation in irrigated lucerne (<i>Medicago sativa</i>) systems. <i>Biology and Fertility of Soils</i> , 2011, 47, 377-385.	2.3	23
32	Agriculture in central Tibet: an assessment of climate, farming systems, and strategies to boost production. <i>Crop and Pasture Science</i> , 2009, 60, 627.	0.7	22
33	Diversity and Evolution of Rainfed Farming Systems in Southern Australia. , 2011, , 715-754.		20
34	Assessing N ₂ Fixation in Annual Legumes using 15N Natural Abundance. <i>Current Plant Science and Biotechnology in Agriculture</i> , 2001, , 103-118.	0.0	19
35	Nitrogen mineralisation and plant nitrogen acquisition in a nitrogen-limited calcareous grassland. <i>Environmental and Experimental Botany</i> , 1998, 40, 209-219.	2.0	16
36	Which crops should be included in a carbon accounting system for Australian agriculture?. <i>Crop and Pasture Science</i> , 2009, 60, 617.	0.7	15

#	ARTICLE	IF	CITATIONS
37	Challenges and opportunities for grain farming on sandy soils of semi-arid south and south-eastern Australia. <i>Soil Research</i> , 2020, 58, 323.	0.6	15
38	Measuring Symbiotic Nitrogen Fixation by Legumes. <i>Agronomy</i> , 2015, , 125-170.	0.2	13
39	Nitrogen isotope fractionation in the fodder tree tagasaste (<i>Chamaecytisus proliferus</i>) and assessment of N ₂ fixation inputs in deep sandy soils of Western Australia. <i>Functional Plant Biology</i> , 2000, 27, 921.	1.1	10
40	Second harvest—Is there sufficient stubble for biofuel production in Australia?. <i>GCB Bioenergy</i> , 2012, 4, 654-660.	2.5	8
41	Reliable quantification of N ₂ fixation by non-legumes remains problematic. <i>Nutrient Cycling in Agroecosystems</i> , 2020, 118, 223-225.	1.1	8
42	Sustainability of Grazing Systems: Feed Base, Critical Grazing Pressure and Variability. <i>International Journal of Agricultural Sustainability</i> , 2003, 1, 95-107.	1.3	6
43	Soils, crop nutrient status and nutrient dynamics on small-holder farms in central Tibet, China. <i>Plant and Soil</i> , 2011, 348, 219-229.	1.8	6
44	Mineral nitrogen supply from pastures to cereals in three northern Victorian environments. <i>Australian Journal of Experimental Agriculture</i> , 2006, 46, 59.	1.0	5
45	John Featherstone Witty. <i>Plant and Soil</i> , 2012, 356, 291-293.	1.8	1