

# 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	Reliable quantification of N <sub>2</sub> fixation by non-legumes remains problematic. <i>Nutrient Cycling in Agroecosystems</i> , 2020, 118, 223-225.	1.1	8
2	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
3	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
4	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
5	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
6	Measuring Symbiotic Nitrogen Fixation by Legumes. <i>Agronomy</i> , 2015, , 125-170.	0.2	13
7	Can differences in <sup>15</sup> 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
8	Methodologies for estimating nitrogen transfer between legumes and companion species in agro-ecosystems: A review of <sup>15</sup> N-enriched techniques. <i>Soil Biology and Biochemistry</i> , 2014, 73, 10-21.	4.2	87
9	Isotope discrimination provides new insight into biological nitrogen fixation. <i>New Phytologist</i> , 2013, 198, 643-646.	3.5	79
10	Nitrogen fixation in Australian dairy systems: review and prospect. <i>Crop and Pasture Science</i> , 2012, 63, 787.	0.7	35
11	John Featherstone Witty. <i>Plant and Soil</i> , 2012, 356, 291-293.	1.8	1
12	Second harvest – Is there sufficient stubble for biofuel production in Australia?. <i>GCB Bioenergy</i> , 2012, 4, 654-660.	2.5	8
13	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
14	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
15	Symbiotic N <sub>2</sub> 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
16	Diversity and Evolution of Rainfed Farming Systems in Southern Australia. , 2011, , 715-754.		20
17	Prospects and problems of simple linear models for estimating symbiotic N <sub>2</sub> fixation by crop and pasture legumes. <i>Plant and Soil</i> , 2010, 329, 75-89.	1.8	145
18	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

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19	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
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	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
22	Farming systems of the Loess Plateau, Gansu Province, China. <i>Agriculture, Ecosystems and Environment</i> , 2008, 124, 13-23.	2.5	62
23	Measurement of asymbiotic N <sub>2</sub> fixation in Australian agriculture. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2915-2921.	4.2	58
24	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
25	The Nitrogen Cycle in Terrestrial Ecosystems. , 2007, , 37-64.		50
26	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
27	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
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	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
30	Assessing N <sub>2</sub> Fixation in Annual Legumes using <sup>15</sup> N Natural Abundance. <i>Current Plant Science and Biotechnology in Agriculture</i> , 2001, , 103-118.	0.0	19
31	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
32	An appraisal of recent field measurements of symbiotic N <sub>2</sub> fixation by annual legumes. <i>Field Crops Research</i> , 2000, 65, 211-228.	2.3	321
33	Nitrogen isotope fractionation in the fodder tree tagasaste ( <i>Chamaecytisus proliferus</i> ) and assessment of N <sub>2</sub> fixation inputs in deep sandy soils of Western Australia. <i>Functional Plant Biology</i> , 2000, 27, 921.	1.1	10
34	Factors affecting soil acidification under legumes. III. Acid production by N <sub>2</sub> -fixing legumes as influenced by nitrate supply. <i>New Phytologist</i> , 1999, 143, 513-521.	3.5	82
35	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
36	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

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37	Effects of grazing on plant and soil nitrogen relations of pasture-crop rotations. Australian Journal of Agricultural Research, 1998, 49, 475.	1.5	35
38	Nitrogen benefits of lupins, field pea, and chickpea to wheat production in south-eastern Australia. Australian Journal of Agricultural Research, 1997, 48, 39.	1.5	52
39	Nitrogen fixation by annual legumes in Australian Mediterranean agriculture. Australian Journal of Agricultural Research, 1997, 48, 267.	1.5	112
40	Selection of reference plants for $^{15}\text{N}$ natural abundance assessment of $\text{N}_2$ fixation by crop and pasture legumes in south-west Australia. Australian Journal of Agricultural Research, 1994, 45, 133.	1.5	68
41	Potential precision of the $^{15}\text{N}$ natural abundance method in field estimates of nitrogen fixation by crop and pasture legumes in south-west Australia. Australian Journal of Agricultural Research, 1994, 45, 119.	1.5	161
42	Nitrogen Balance of Field Pea Crops in South Western Australia, Studied Using the $^{15}\text{N}$ Natural Abundance Technique. Functional Plant Biology, 1994, 21, 533.	1.1	45
43	Characteristics of inorganic nitrogen assimilation of plants in fire-prone Mediterranean-type vegetation. Plant, Cell and Environment, 1993, 16, 351-363.	2.8	74
44	$^{15}\text{N}$ natural abundance of plant and soil components of a Banksia woodland ecosystem in relation to nitrate utilization, life form, mycorrhizal status and $\text{N}_2$ -fixing abilities of component species. Plant, Cell and Environment, 1993, 16, 365-373.	2.8	115
45	Preparation of plant samples for high precision nitrogen isotope ratio analysis. Communications in Soil Science and Plant Analysis, 1993, 24, 2093-2106.	0.6	27