

# Given Names Deactivated Family Name Deactivated

## List of Publications by Citations

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60  
papers

4,647  
citations

33  
h-index

61  
g-index

61  
ext. papers

5,233  
ext. citations

4.7  
avg, IF

5.44  
L-index

#	Paper	IF	Citations
60	Global inputs of biological nitrogen fixation in agricultural systems. <i>Plant and Soil</i> , <b>2008</b> , 311, 1-18	4.2	976
59	Legumes for mitigation of climate change and the provision of feedstock for biofuels and biorefineries. A review. <i>Agronomy for Sustainable Development</i> , <b>2012</b> , 32, 329-364	6.8	411
58	Biological nitrogen fixation: Investments, expectations and actual contributions to agriculture. <i>Plant and Soil</i> , <b>1992</b> , 141, 13-39	4.2	291
57	Faba bean in cropping systems. <i>Field Crops Research</i> , <b>2010</b> , 115, 203-216	5.5	280
56	Can the Synchrony of Nitrogen Supply and Crop Demand be Improved in Legume and Fertilizer-based Agroecosystems? A Review. <i>Nutrient Cycling in Agroecosystems</i> , <b>2005</b> , 72, 101-120	3.3	241
55	Use of the 15N natural abundance technique to quantify biological nitrogen fixation by woody perennials. <i>Nutrient Cycling in Agroecosystems</i> , <b>2000</b> , 57, 235-270	3.3	232
54	Nitrogen redistribution during grain growth in wheat ( <i>Triticum aestivum</i> L.) : II. Chloroplast senescence and the degradation of ribulose-1,5-bisphosphate carboxylase. <i>Planta</i> , <b>1980</b> , 149, 241-51	4.7	131
53	Ureide assay for measuring nitrogen fixation by nodulated soybean calibrated by N methods. <i>Plant Physiology</i> , <b>1990</b> , 93, 495-503	6.6	127
52	Break-crop benefits to wheat in Western Australia Insights from over three decades of research. <i>Crop and Pasture Science</i> , <b>2012</b> , 63, 1	2.2	122
51	Measurement of nitrogen fixation by soybean in the field using the ureide and natural N abundance methods. <i>Plant Physiology</i> , <b>1990</b> , 93, 708-16	6.6	108
50	Degradation of ribulose-1,5-bisphosphate carboxylase by proteolytic enzymes from crude extracts of wheat leaves. <i>Planta</i> , <b>1978</b> , 138, 153-60	4.7	82
49	Going where no grains have gone before: From early to mid-succession. <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 223, 223-238	5.7	80
48	Quantifying below-ground nitrogen of legumes. 2. A comparison of 15N and non isotopic methods. <i>Plant and Soil</i> , <b>2002</b> , 239, 277-289	4.2	74
47	Methodologies for estimating nitrogen transfer between legumes and companion species in agro-ecosystems: A review of 15N-enriched techniques. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 73, 10-21	7.5	72
46	Spontaneous Phloem bleeding from cryopunctured fruits of a ureide-producing legume. <i>Plant Physiology</i> , <b>1984</b> , 74, 499-505	6.6	63
45	Mobilization of Nitrogen in Fruiting Plants of a Cultivar of Cowpea. <i>Journal of Experimental Botany</i> , <b>1983</b> , 34, 563-578	7	61
44	Diurnal water balance of the cowpea fruit. <i>Plant Physiology</i> , <b>1985</b> , 77, 148-56	6.6	61

43	Effects of below-ground nitrogen on N balances of field-grown fababeans, chickpea, and barley. <i>Australian Journal of Agricultural Research</i> , <b>2003</b> , 54, 333		60
42	Nitrogen redistribution during grain growth in wheat ( <i>Triticum aestivum</i> L.). <i>Planta</i> , <b>1980</b> , 148, 422-428	4.7	57
41	Metabolism and translocation of allantoin in ureide-producing grain legumes. <i>Plant Physiology</i> , <b>1982</b> , 70, 476-82	6.6	54
40	Symbiotic Performance of Supernodulating Soybean ( <i>Glycine max</i> (L.) Merrill) Mutants during Development on Different Nitrogen Regimes. <i>Journal of Experimental Botany</i> , <b>1989</b> , 40, 715-724	7	53
39	Amino Acid transport and metabolism in relation to the nitrogen economy of a legume leaf. <i>Plant Physiology</i> , <b>1983</b> , 71, 841-8	6.6	53
38	Influence of co-application of nitrogen with phosphorus, potassium and sulphur on the apparent efficiency of nitrogen fertiliser use, grain yield and protein content of wheat: Review. <i>Field Crops Research</i> , <b>2018</b> , 226, 56-65	5.5	50
37	Translocation of Nitrogenous Compounds in Symbiotic and Nitrate-Fed Amide-Exporting Legumes. <i>Journal of Experimental Botany</i> , <b>1987</b> , 38, 567-579	7	50
36	Nitrogen nutrition and metabolic interconversions of nitrogenous solutes in developing cowpea fruits. <i>Plant Physiology</i> , <b>1985</b> , 77, 382-8	6.6	50
35	Economy of water, carbon, and nitrogen in the developing cowpea fruit. <i>Plant Physiology</i> , <b>1985</b> , 77, 142-148	6.6	49
34	Quantifying below-ground nitrogen of legumes. <i>Plant and Soil</i> , <b>2002</b> , 245, 327-334	4.2	48
33	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> , <b>2015</b> , 87, 97-109	7.5	45
32	Application of <sup>15</sup> N and xylem ureide methods for assessing N <sub>2</sub> fixation of three shrub legumes periodically pruned for forage. <i>Plant and Soil</i> , <b>1996</b> , 182, 125-137	4.2	44
31	Detection of a reproducible, single-member shift in soil bacterial communities exposed to low levels of hydrogen. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 1471-9	4.8	40
30	The effect of N fertilizer strategy on N <sub>2</sub> fixation, growth and yield of vegetable soybean. <i>Field Crops Research</i> , <b>1997</b> , 51, 221-229	5.5	38
29	Factors associated with biological nitrogen fixation in dairy pastures in south-western Victoria. <i>Australian Journal of Agricultural Research</i> , <b>1999</b> , 50, 261		38
28	Nitrogen Nutrition and Xylem Sap Composition of Peanut ( <i>Arachis hypogaea</i> L. cv Virginia Bunch). <i>Plant Physiology</i> , <b>1986</b> , 82, 946-51	6.6	37
27	Legume inoculant application methods: effects on nodulation patterns, nitrogen fixation, crop growth and yield in narrow-leaf lupin and faba bean. <i>Plant and Soil</i> , <b>2017</b> , 419, 25-39	4.2	32
26	Nitrogen contributions from faba bean ( <i>Vicia faba</i> L.) reliant on soil rhizobia or inoculation. <i>Plant and Soil</i> , <b>2013</b> , 365, 363-374	4.2	31

25	Post-Anthesis Economy of Carbon in a Cultivar of Cowpea. <i>Journal of Experimental Botany</i> , <b>1983</b> , 34, 544-562	7	31
24	Soil mineral nitrogen benefits derived from legumes and comparisons of the apparent recovery of legume or fertiliser nitrogen by wheat. <i>Soil Research</i> , <b>2017</b> , 55, 600	1.8	30
23	Yield and nitrogen use efficiency of wheat increased with root length and biomass due to nitrogen, phosphorus, and potassium interactions. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2018</b> , 181, 364-373	2.3	28
22	Comparison of nitrogen mineralisation patterns from root residues of <i>Trifolium subterraneum</i> and <i>Medicago sativa</i> . <i>Biology and Fertility of Soils</i> , <b>2003</b> , 38, 296-300	6.1	28
21	<sup>15</sup> N <sub>2</sub> as a tracer of biological N <sub>2</sub> fixation: A 75-year retrospective. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 106, 36-50	7.5	26
20	Proteolysis in the axis of the germinating pea seed : I. Changes in protein degrading enzyme activities of the radicle and primary root. <i>Planta</i> , <b>1979</b> , 147, 111-6	4.7	25
19	Estimating the contribution of nitrogen from legume cover crops to the nitrogen nutrition of grapevines using a <sup>15</sup> N dilution technique. <i>Plant and Soil</i> , <b>2010</b> , 334, 247-259	4.2	23
18	Timing of xylem sampling for ureide analysis of nitrogen fixation. <i>Plant and Soil</i> , <b>2002</b> , 238, 57-67	4.2	20
17	Annual nitrogen fixation in grazed dairy pastures in south-western Victoria. <i>Australian Journal of Agricultural Research</i> , <b>1999</b> , 50, 273		20
16	Sheep grazing on crop residues do not reduce crop yields in no-till, controlled traffic farming systems in an equi-seasonal rainfall environment. <i>Field Crops Research</i> , <b>2016</b> , 196, 22-32	5.5	19
15	Prospects to utilise intercrops and crop variety mixtures in mechanised, rain-fed, temperate cropping systems. <i>Crop and Pasture Science</i> , <b>2016</b> , 67, 1252	2.2	19
14	Perennial cereal crops: An initial evaluation of wheat derivatives grown in mixtures with a regenerating annual legume. <i>Renewable Agriculture and Food Systems</i> , <b>2017</b> , 32, 276-290	1.8	17
13	Electrophoretic Studies of the Seed Proteins of Cowpea, <i>Vigna unguiculata</i> (L.) Walp.. <i>Zeitschrift für Pflanzenphysiologie</i> , <b>1983</b> , 109, 363-370		17
12	Hydrogen emission from nodulated soybeans [ <i>Glycine max</i> (L.) Merr.] and consequences for the productivity of a subsequent maize ( <i>Zea mays</i> L.) crop. <i>Plant and Soil</i> , <b>2008</b> , 307, 67-82	4.2	15
11	Diversity and Evolution of Rainfed Farming Systems in Southern Australia <b>2011</b> , 715-754		13
10	Nitrogen Partitioning During Early Development of Supernodulating Soybean ( <i>Glycine max</i> [L.] Merrill) Mutants and their Wild-Type Parent. <i>Journal of Experimental Botany</i> , <b>1990</b> , 41, 1239-1244	7	12
9	The nitrification inhibitor 3,4,-dimethylpyrazole phosphate strongly inhibits nitrification in coarse-grained soils containing a low abundance of nitrifying microbiota. <i>Soil Research</i> , <b>2017</b> , 55, 28	1.8	11
8	New techniques for studying competition by Rhizobia and for assessing nitrogen fixation in the field. <i>Plant and Soil</i> , <b>1995</b> , 174, 241-253	4.2	11

7	New ley legumes increase nitrogen fixation and availability and grain crop yields in subtropical cropping systems. <i>Crop and Pasture Science</i> , <b>2017</b> , 68, 11	2.2	10
6	Enhancing composition and persistence of mixed pasture swards in southern New South Wales through alternative spatial configurations and improved legume performance. <i>Crop and Pasture Science</i> , <b>2017</b> , 68, 1112	2.2	9
5	Calibrating the xylem-solute method for nitrogen fixation measurement of ureide-producing legumes: cowpea, mungbean, and black gram. <i>Communications in Soil Science and Plant Analysis</i> , <b>2002</b> , 33, 425-437	1.5	9
4	Relating particulate organic matter-nitrogen (POM-N) and non-POM-N with pulse crop residues, residue management and cereal N uptake. <i>Agronomy for Sustainable Development</i> , <b>2002</b> , 22, 777-787		8
3	Crop and microbial responses to the nitrification inhibitor 3,4-dimethylpyrazole phosphate (DMPP) in Mediterranean wheat-cropping systems. <i>Soil Research</i> , <b>2017</b> , 55, 553	1.8	3
2	The legacy of pasture drill rows on soil chemical characteristics and subsequent wheat production. <i>Plant and Soil</i> , <b>2020</b> , 455, 319-337	4.2	1
1	Contrasting soil microbial abundance and diversity on and between pasture drill rows in the third growing season after sowing. <i>Renewable Agriculture and Food Systems</i> , <b>2021</b> , 36, 163-172	1.8	1