

David F Herridge

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86
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#	Paper	IF	Citations
86	Global inputs of biological nitrogen fixation in agricultural systems. <i>Plant and Soil</i> , 2008 , 311, 1-18	4.2	976
85	The contributions of nitrogen-fixing crop legumes to the productivity of agricultural systems. <i>Symbiosis</i> , 2009 , 48, 1-17	3	457
84	Nitrogen Fixation by Legumes in Tropical and Subtropical Agriculture. <i>Advances in Agronomy</i> , 1990 , 155-223	2.3	158
83	Allantoin and Allantoic Acid in the Nitrogen Economy of the Cowpea (<i>Vigna unguiculata</i> [L.] Walp.). <i>Plant Physiology</i> , 1978 , 62, 495-8	6.6	142
82	Ureide assay for measuring nitrogen fixation by nodulated soybean calibrated by N methods. <i>Plant Physiology</i> , 1990 , 93, 495-503	6.6	127
81	Crop residue and fertiliser N effects on nitrogen fixation and yields of legume-cereal rotations and soil organic fertility. <i>Field Crops Research</i> , 2003 , 83, 1-11	5.5	115
80	Breeding for enhanced nitrogen fixation in crop legumes. <i>Field Crops Research</i> , 2000 , 65, 229-248	5.5	114
79	Factors regulating the contributions of fixed nitrogen by pasture and crop legumes to different farming systems of eastern Australia. <i>Plant and Soil</i> , 2001 , 228, 29-41	4.2	113
78	Measurement of nitrogen fixation by soybean in the field using the ureide and natural N abundance methods. <i>Plant Physiology</i> , 1990 , 93, 708-16	6.6	108
77	Utilization of net photosynthate for nitrogen fixation and protein production in an annual legume. <i>Plant Physiology</i> , 1977 , 60, 759-64	6.6	107
76	Relative abundance of ureides and nitrate in plant tissues of soybean as a quantitative assay of nitrogen fixation. <i>Plant Physiology</i> , 1982 , 70, 1-6	6.6	106
75	Chickpea increases soil-N fertility in cereal systems through nitrate sparing and N ₂ fixation. <i>Soil Biology and Biochemistry</i> , 1995 , 27, 545-551	7.5	103
74	Effects of Nitrate and Plant Development on the Abundance of Nitrogenous Solutes in Root-Bleeding and Vacuum-Extracted Exudates of Soybean ¹ . <i>Crop Science</i> , 1984 , 24, 173-179	2.4	86
73	Enhanced biological N ₂ fixation and yield of faba bean (<i>Vicia faba</i> L.) in an acid soil following biochar addition: dissection of causal mechanisms. <i>Plant and Soil</i> , 2015 , 395, 7-20	4.2	75
72	Quantifying below-ground nitrogen of legumes. 2. A comparison of ¹⁵ N and non isotopic methods. <i>Plant and Soil</i> , 2002 , 239, 277-289	4.2	74
71	Measurement of N ₂ fixation in maize (<i>Zea mays</i> L.)-ficebean (<i>Vigna umbellata</i> [Thunb.] Ohwi and Ohashi) intercrops. <i>Plant and Soil</i> , 1988 , 108, 125-135	4.2	73
70	Does nitrogen fixation of commercial, dryland chickpea and faba bean crops in north-west New South Wales maintain or enhance soil nitrogen?. <i>Australian Journal of Experimental Agriculture</i> , 1998 , 38, 61		71

69	Partitioning and Utilization of Net Photosynthate in a Nodulated Annual Legume. <i>Journal of Experimental Botany</i> , 1978 , 29, 401-412	7	70
68	Effect of rhizobia and soil nitrate on the establishment and functioning of the soybean symbiosis in the field. <i>Australian Journal of Agricultural Research</i> , 1984 , 35, 149		63
67	Effects of below-ground nitrogen on N balances of field-grown fababean, chickpea, and barley. <i>Australian Journal of Agricultural Research</i> , 2003 , 54, 333		60
66	Population dynamics of <i>Rhizobium japonicum</i> strains used to inoculate three successive crops of soybean. <i>Australian Journal of Agricultural Research</i> , 1987 , 38, 61		60
65	Use of the ureide technique to describe the nitrogen economy of field-grown soybeans. <i>Plant Physiology</i> , 1982 , 70, 7-11	6.6	56
64	Contributions of fixed nitrogen and soil nitrate to the nitrogen economy of irrigated soybean. <i>Soil Biology and Biochemistry</i> , 1988 , 20, 711-717	7.5	55
63	On-farm measurements of nitrogen fixation by winter and summer legumes in the Hill and Terai regions of Nepal. <i>Field Crops Research</i> , 2001 , 70, 209-221	5.5	54
62	Translocation of Nitrogenous Compounds in Symbiotic and Nitrate-Fed Amide-Exporting Legumes. <i>Journal of Experimental Botany</i> , 1987 , 38, 567-579	7	50
61	Soil N ₂ O emissions under N ₂ -fixing legumes and N-fertilised canola: A reappraisal of emissions factor calculations. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 202, 232-242	5.7	49
60	Field assessment of supernodulating genotypes of soybean for yield, N ₂ fixation and benefit to subsequent crops. <i>Soil Biology and Biochemistry</i> , 1995 , 27, 563-569	7.5	49
59	Quantifying below-ground nitrogen of legumes. <i>Plant and Soil</i> , 2002 , 245, 327-334	4.2	48
58	Field evaluation of soybean genotypes selected for enhanced capacity to nodulate and fix nitrogen in the presence of nitrate. <i>Plant and Soil</i> , 1988 , 110, 129-135	4.2	45
57	Application of ¹⁵ N and xylem ureide methods for assessing N ₂ fixation of three shrub legumes periodically pruned for forage. <i>Plant and Soil</i> , 1996 , 182, 125-137	4.2	44
56	Synthesis, Storage, and Utilization of Amino Compounds in White Lupin (<i>Lupinus albus</i> L.). <i>Plant Physiology</i> , 1981 , 67, 37-42	6.6	44
55	Nitrogen fixation and soil nitrate interactions in field-grown chickpea (<i>Cicer arietinum</i>) and fababean (<i>Vicia faba</i>). <i>Australian Journal of Agricultural Research</i> , 2002 , 53, 599		43
54	Greenhouse gas emissions profile for 1 tonne of wheat produced in Central Zone (East) New South Wales: a life cycle assessment approach. <i>Crop and Pasture Science</i> , 2012 , 63, 319	2.2	42
53	Effect of tillage on yield, nodulation and nitrogen fixation of soybean in far north-coastal New South Wales. <i>Australian Journal of Experimental Agriculture</i> , 1989 , 29, 671		42
52	Influence of source and quality of plant residues on emissions of N ₂ O and CO ₂ from a fertile, acidic Black Vertisol. <i>Biology and Fertility of Soils</i> , 2014 , 50, 499-506	6.1	41

51	Chickpea in wheat-based cropping systems of northern New South Wales. II. Influence on biomass, grain yield, and crown rot in the following wheat crop. <i>Australian Journal of Agricultural Research</i> , 1998 , 49, 401		39
50	Variation in colony characteristics and symbiotic effectiveness of Rhizobium. <i>Journal of Applied Bacteriology</i> , 1975 , 38, 19-27		37
49	The Xylem Ureide Assay of Nitrogen Fixation: Sampling Procedures and Sources of Error. <i>Journal of Experimental Botany</i> , 1988 , 39, 12-22	7	31
48	Soil mineral nitrogen benefits derived from legumes and comparisons of the apparent recovery of legume or fertiliser nitrogen by wheat. <i>Soil Research</i> , 2017 , 55, 600	1.8	30
47	Effects of N fertilization on N ₂ fixation and N balances of soybean grown after lowland rice. <i>Plant and Soil</i> , 1992 , 147, 235-242	4.2	29
46	Studies on alternative means of legume inoculation: microbiological and agronomic appraisals of commercial procedures for inoculating soybeans with <i>Bradyrhizobium japonicum</i> . <i>Australian Journal of Agricultural Research</i> , 1988 , 39, 965		29
45	Heritability and Repeatability of Enhanced N ₂ Fixation in Early and Late Inbreeding Generations of Soybean. <i>Crop Science</i> , 1994 , 34, 360-367	2.4	27
44	Evaluation of the xylem ureide method for measuring N ₂ fixation in six tree legume species. <i>Soil Biology and Biochemistry</i> , 1996 , 28, 281-289	7.5	26
43	Improving nitrogen fixation of crop legumes through breeding and agronomic management: analysis with simulation modelling. <i>Australian Journal of Experimental Agriculture</i> , 2001 , 41, 391		25
42	Development of the Xylem Ureide Assay for the Measurement of Nitrogen Fixation by Pigeonpea (<i>Cajanus cajan</i> (L.) Millsp.). <i>Journal of Experimental Botany</i> , 1989 , 40, 535-542	7	25
41	Fababean (<i>Vicia faba</i>) in Australia's northern grains belt: canopy development, biomass, and nitrogen accumulation and partitioning. <i>Australian Journal of Agricultural Research</i> , 2002 , 53, 227		24
40	The narrow-leafed lupin (<i>Lupinus angustifolius</i> L.) as a nitrogen-fixing rotation crop for cereal production. II. Estimates of fixation by field-grown crops. <i>Australian Journal of Agricultural Research</i> , 1988 , 39, 1017		24
39	The narrow-leafed lupin (<i>Lupinus angustifolius</i> L.) as a nitrogen-fixing rotation crop for cereal production. III. Residual effects of lupins on subsequent cereal crops. <i>Australian Journal of Agricultural Research</i> , 1988 , 39, 1029		23
38	Chickpea in wheat-based cropping systems of northern New South Wales. III. Prediction of N ₂ fixation and N balance using soil nitrate at sowing and chickpea yield. <i>Australian Journal of Agricultural Research</i> , 1998 , 49, 409		23
37	Contribution of chickpea nitrogen fixation to increased wheat production and soil organic fertility in rain-fed cropping. <i>Biology and Fertility of Soils</i> , 2003 , 38, 59-64	6.1	22
36	Production of summer crops in northern New South Wales. I. Effects of tillage and double cropping on growth, grain and N yields of six crops. <i>Australian Journal of Agricultural Research</i> , 1992 , 43, 105		22
35	Adaptation of methods for evaluating N ₂ fixation in food legumes and legume cover crops. <i>Plant and Soil</i> , 1988 , 108, 143-150	4.2	22
34	Nitrogen fixation, growth and yield of soybean grown under saturated soil culture and conventional irrigation. <i>Field Crops Research</i> , 1993 , 32, 257-268	5.5	21

33	Screening techniques and improved biological nitrogen fixation in cool season food legumes. <i>Euphytica</i> , 1993 , 73, 95-108	2.1	21
32	Timing of xylem sampling for ureide analysis of nitrogen fixation. <i>Plant and Soil</i> , 2002 , 238, 57-67	4.2	20
31	Greenhouse gas (N ₂ O and CH ₄) fluxes under nitrogen-fertilised dryland wheat and barley on subtropical Vertosols: risk, rainfall and alternatives. <i>Soil Research</i> , 2016 , 54, 634	1.8	19
30	Naturalised populations of mesorhizobia in chickpea (<i>Cicer arietinum</i> L.) cropping soils: effects on nodule occupancy and productivity of commercial chickpea. <i>Plant and Soil</i> , 2015 , 387, 233-249	4.2	19
29	Studies on seed pelleting as an aid to legume seed inoculation. 4. Examination of preinoculated seed. <i>Australian Journal of Experimental Agriculture</i> , 1975 , 15, 780		19
28	The cropping systems of the Central Dry Zone of Myanmar: Productivity constraints and possible solutions. <i>Agricultural Systems</i> , 2019 , 169, 31-40	6.1	15
27	Cradle-to-farmgate greenhouse gas emissions for 2-year wheat monoculture and break crop/wheat sequences in south-eastern Australia. <i>Crop and Pasture Science</i> , 2016 , 67, 812	2.2	13
26	Prediction of nitrogen fertilizer requirement in cotton using petiole and sap nitrate. <i>Communications in Soil Science and Plant Analysis</i> , 1991 , 22, 1315-1324	1.5	12
25	Production of summer crops in northern New South Wales. II. Effects of tillage and crop rotation on yields of sorghum. <i>Australian Journal of Agricultural Research</i> , 1992 , 43, 123		10
24	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> , 2002 , 33, 425-437	1.5	9
23	Erratic nodulation and nitrogen fixation in field-grown pigeonpea [<i>Cajanus cajan</i> (L.) Millsp.]. <i>Australian Journal of Experimental Agriculture</i> , 1991 , 31, 653		9
22	Survival of some slow-growing <i>Rhizobium</i> on inoculated legume seed. <i>Plant and Soil</i> , 1974 , 40, 441-444	4.2	9
21	Correlation between xylem ureide levels and nodulation in field-grown <i>Phaseolus vulgaris</i> . <i>Australian Journal of Experimental Agriculture</i> , 1991 , 31, 679		9
20	Evaluation of genotypes of navy and culinary bean (<i>Phaseolus vulgaris</i> L.) selected for superior growth and nitrogen fixation. <i>Australian Journal of Experimental Agriculture</i> , 1999 , 39, 975		9
19	Measuring Symbiotic Nitrogen Fixation by Legumes. <i>Agronomy</i> , 2015 , 125-170	0.8	8
18	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> , 2002 , 22, 777-787		8
17	Crop-available water and agronomic management, rather than nitrogen supply, primarily determine grain yield of commercial chickpea in northern New South Wales. <i>Crop and Pasture Science</i> , 2014 , 65, 442	2.2	7
16	The narrow-leaved lupin (<i>Lupinus angustifolius</i> L.) as a nitrogen-fixing rotation crop for cereal production. I. Indices of nitrogen fixation. <i>Australian Journal of Agricultural Research</i> , 1988 , 39, 1003		7

15	Low nodulation and N ₂ fixation limits yield of pigeonpea on alkaline vertisols of northern N.S.W.: effect of iron, rhizobia and plant genotype. <i>Australian Journal of Agricultural Research</i> , 1993 , 44, 137		7
14	Rainfall-related opportunities, risks and constraints to rainfed cropping in the Central Dry Zone of Myanmar as defined by soil water balance modelling. <i>Agricultural Systems</i> , 2018 , 164, 47-57	6.1	6
13	Criteria and methods for comparing the effectiveness of Rhizobium strains for pasture legumes under field conditions. <i>Plant and Soil</i> , 1974 , 40, 511-524	4.2	6
12	Reliable quantification of N ₂ fixation by non-legumes remains problematic. <i>Nutrient Cycling in Agroecosystems</i> , 2020 , 118, 223-225	3.3	6
11	Rhizobial counts in peat inoculants vary amongst legume inoculant groups at manufacture and with storage: implications for quality standards. <i>Plant and Soil</i> , 2014 , 380, 327-336	4.2	5
10	Quantifying country-to-global scale nitrogen fixation for grain legumes: I. Reliance on nitrogen fixation of soybean, groundnut and pulses. <i>Plant and Soil</i> , 1	4.2	5
9	Nodulation of and nitrogen fixation by <i>Lablab purpureus</i> under field conditions. <i>Australian Journal of Experimental Agriculture</i> , 1975 , 15, 264		5
8	Validation of NBudget for estimating soil N supply in Australia's northern grains region in the absence of soil test data. <i>Soil Research</i> , 2017 , 55, 590	1.8	4
7	Benchmarks for improved productivity and profitability of monsoon rice in lower Myanmar. <i>Field Crops Research</i> , 2019 , 233, 59-69	5.5	4
6	Greenhouse gas emission reductions in subtropical cereal-based cropping sequences using legumes, DMPP-coated urea and split timings of urea application. <i>Soil Research</i> , 2018 , 56, 724	1.8	4
5	Quantifying country-to-global scale nitrogen fixation for grain legumes II. Coefficients, templates and estimates for soybean, groundnut and pulses. <i>Plant and Soil</i> , 1	4.2	4
4	Lime pelleting inoculated serradella (<i>Ornithopus</i> spp.) increases nodulation and yield. <i>Soil Biology and Biochemistry</i> , 2004 , 36, 1289-1294	7.5	2
3	Foreword to Application of Rhizobial Inoculants to Australian Agriculture <i>Australian Journal of Experimental Agriculture</i> , 2005 , 45, ii		2
2	A Mixed-Effects Regression Modeling Approach for Evaluating Paddy Soil Productivity. <i>Agronomy Journal</i> , 2017 , 109, 2302-2311	2.2	
1	Influence of combined nitrogen on the symbiosis between single colony isolates of Rhizobium CB756 and <i>Macrotyloma axillare</i> . <i>Journal of Applied Bacteriology</i> , 1975 , 38, 75-8		