

# David F Herridge

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86  
papers

4,682  
citations

37  
h-index

67  
g-index

86  
ext. papers

5,190  
ext. citations

4.6  
avg, IF

5.29  
L-index

#	Paper	IF	Citations
86	Reliable quantification of N <sub>2</sub> fixation by non-legumes remains problematic. <i>Nutrient Cycling in Agroecosystems</i> , <b>2020</b> , 118, 223-225	3.3	6
85	Benchmarks for improved productivity and profitability of monsoon rice in lower Myanmar. <i>Field Crops Research</i> , <b>2019</b> , 233, 59-69	5.5	4
84	The cropping systems of the Central Dry Zone of Myanmar: Productivity constraints and possible solutions. <i>Agricultural Systems</i> , <b>2019</b> , 169, 31-40	6.1	15
83	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> , <b>2018</b> , 164, 47-57	6.1	6
82	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> , <b>2018</b> , 56, 724	1.8	4
81	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> , <b>2017</b> , 55, 590	1.8	4
80	A Mixed-Effects Regression Modeling Approach for Evaluating Paddy Soil Productivity. <i>Agronomy Journal</i> , <b>2017</b> , 109, 2302-2311	2.2	
79	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
78	Greenhouse gas (N <sub>2</sub> O and CH <sub>4</sub> ) fluxes under nitrogen-fertilised dryland wheat and barley on subtropical Vertosols: risk, rainfall and alternatives. <i>Soil Research</i> , <b>2016</b> , 54, 634	1.8	19
77	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> , <b>2016</b> , 67, 812	2.2	13
76	Enhanced biological N <sub>2</sub> 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> , <b>2015</b> , 395, 7-20	4.2	75
75	Measuring Symbiotic Nitrogen Fixation by Legumes. <i>Agronomy</i> , <b>2015</b> , 125-170	0.8	8
74	Soil N <sub>2</sub> O emissions under N <sub>2</sub> -fixing legumes and N-fertilised canola: A reappraisal of emissions factor calculations. <i>Agriculture, Ecosystems and Environment</i> , <b>2015</b> , 202, 232-242	5.7	49
73	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> , <b>2015</b> , 387, 233-249	4.2	19
72	Influence of source and quality of plant residues on emissions of N <sub>2</sub> O and CO <sub>2</sub> from a fertile, acidic Black Vertisol. <i>Biology and Fertility of Soils</i> , <b>2014</b> , 50, 499-506	6.1	41
71	Rhizobial counts in peat inoculants vary amongst legume inoculant groups at manufacture and with storage: implications for quality standards. <i>Plant and Soil</i> , <b>2014</b> , 380, 327-336	4.2	5
70	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> , <b>2014</b> , 65, 442	2.2	7

69	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> , <b>2012</b> , 63, 319	2.2	42
68	The contributions of nitrogen-fixing crop legumes to the productivity of agricultural systems. <i>Symbiosis</i> , <b>2009</b> , 48, 1-17	3	457
67	Global inputs of biological nitrogen fixation in agricultural systems. <i>Plant and Soil</i> , <b>2008</b> , 311, 1-18	4.2	976
66	Foreword to Application of Rhizobial Inoculants to Australian AgricultureV <i>Australian Journal of Experimental Agriculture</i> , <b>2005</b> , 45, ii		2
65	Lime pelleting inoculated serradella ( <i>Ornithopus</i> spp.) increases nodulation and yield. <i>Soil Biology and Biochemistry</i> , <b>2004</b> , 36, 1289-1294	7.5	2
64	Effects of below-ground nitrogen on N balances of field-grown fababean, chickpea, and barley. <i>Australian Journal of Agricultural Research</i> , <b>2003</b> , 54, 333		60
63	Contribution of chickpea nitrogen fixation to increased wheat production and soil organic fertility in rain-fed cropping. <i>Biology and Fertility of Soils</i> , <b>2003</b> , 38, 59-64	6.1	22
62	Crop residue and fertiliser N effects on nitrogen fixation and yields of legume-cereal rotations and soil organic fertility. <i>Field Crops Research</i> , <b>2003</b> , 83, 1-11	5.5	115
61	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> , <b>2002</b> , 53, 227		24
60	Timing of xylem sampling for ureide analysis of nitrogen fixation. <i>Plant and Soil</i> , <b>2002</b> , 238, 57-67	4.2	20
59	Quantifying below-ground nitrogen of legumes. 2. A comparison of <sup>15</sup> N and non isotopic methods. <i>Plant and Soil</i> , <b>2002</b> , 239, 277-289	4.2	74
58	Quantifying below-ground nitrogen of legumes. <i>Plant and Soil</i> , <b>2002</b> , 245, 327-334	4.2	48
57	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
56	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> , <b>2002</b> , 53, 599		43
55	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
54	Improving nitrogen fixation of crop legumes through breeding and agronomic management: analysis with simulation modelling. <i>Australian Journal of Experimental Agriculture</i> , <b>2001</b> , 41, 391		25
53	Factors regulating the contributions of fixed nitrogen by pasture and crop legumes to different farming systems of eastern Australia. <i>Plant and Soil</i> , <b>2001</b> , 228, 29-41	4.2	113
52	On-farm measurements of nitrogen fixation by winter and summer legumes in the Hill and Terai regions of Nepal. <i>Field Crops Research</i> , <b>2001</b> , 70, 209-221	5.5	54

51	Breeding for enhanced nitrogen fixation in crop legumes. <i>Field Crops Research</i> , <b>2000</b> , 65, 229-248	5.5	114
50	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> , <b>1999</b> , 39, 975		9
49	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> , <b>1998</b> , 38, 61		71
48	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> , <b>1998</b> , 49, 401		39
47	Chickpea in wheat-based cropping systems of northern New South Wales. III. Prediction of N <sub>2</sub> fixation and N balance using soil nitrate at sowing and chickpea yield. <i>Australian Journal of Agricultural Research</i> , <b>1998</b> , 49, 409		23
46	Evaluation of the xylem ureide method for measuring N <sub>2</sub> fixation in six tree legume species. <i>Soil Biology and Biochemistry</i> , <b>1996</b> , 28, 281-289	7.5	26
45	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
44	Chickpea increases soil-N fertility in cereal systems through nitrate sparing and N <sub>2</sub> fixation. <i>Soil Biology and Biochemistry</i> , <b>1995</b> , 27, 545-551	7.5	103
43	Field assessment of supernodulating genotypes of soybean for yield, N <sub>2</sub> fixation and benefit to subsequent crops. <i>Soil Biology and Biochemistry</i> , <b>1995</b> , 27, 563-569	7.5	49
42	Heritability and Repeatability of Enhanced N <sub>2</sub> Fixation in Early and Late Inbreeding Generations of Soybean. <i>Crop Science</i> , <b>1994</b> , 34, 360-367	2.4	27
41	Nitrogen fixation, growth and yield of soybean grown under saturated soil culture and conventional irrigation. <i>Field Crops Research</i> , <b>1993</b> , 32, 257-268	5.5	21
40	Screening techniques and improved biological nitrogen fixation in cool season food legumes. <i>Euphytica</i> , <b>1993</b> , 73, 95-108	2.1	21
39	Low nodulation and N <sub>2</sub> 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> , <b>1993</b> , 44, 137		7
38	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> , <b>1992</b> , 43, 123		10
37	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> , <b>1992</b> , 43, 105		22
36	Effects of N fertilization on N <sub>2</sub> fixation and N balances of soybean grown after lowland rice. <i>Plant and Soil</i> , <b>1992</b> , 147, 235-242	4.2	29
35	Erratic nodulation and nitrogen fixation in field-grown pigeonpea [ <i>Cajanus cajan</i> (L.) Millsp.]. <i>Australian Journal of Experimental Agriculture</i> , <b>1991</b> , 31, 653		9
34	Prediction of nitrogen fertilizer requirement in cotton using petiole and sap nitrate. <i>Communications in Soil Science and Plant Analysis</i> , <b>1991</b> , 22, 1315-1324	1.5	12

33	Correlation between xylem ureide levels and nodulation in field-grown <i>Phaseolus vulgaris</i> . <i>Australian Journal of Experimental Agriculture</i> , <b>1991</b> , 31, 679		9
32	Nitrogen Fixation by Legumes in Tropical and Subtropical Agriculture. <i>Advances in Agronomy</i> , <b>1990</b> , 155-223		158
31	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
30	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
29	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> , <b>1989</b> , 29, 671		42
28	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> , <b>1989</b> , 40, 535-542	7	25
27	Field evaluation of soybean genotypes selected for enhanced capacity to nodulate and fix nitrogen in the presence of nitrate. <i>Plant and Soil</i> , <b>1988</b> , 110, 129-135	4.2	45
26	Measurement of N <sub>2</sub> fixation in maize ( <i>Zea mays</i> L.)-soybean ( <i>Vigna umbellata</i> [Thunb.] Ohwi and Ohashi) intercrops. <i>Plant and Soil</i> , <b>1988</b> , 108, 125-135	4.2	73
25	Adaptation of methods for evaluating N <sub>2</sub> fixation in food legumes and legume cover crops. <i>Plant and Soil</i> , <b>1988</b> , 108, 143-150	4.2	22
24	Contributions of fixed nitrogen and soil nitrate to the nitrogen economy of irrigated soybean. <i>Soil Biology and Biochemistry</i> , <b>1988</b> , 20, 711-717	7.5	55
23	The Xylem Ureide Assay of Nitrogen Fixation: Sampling Procedures and Sources of Error. <i>Journal of Experimental Botany</i> , <b>1988</b> , 39, 12-22	7	31
22	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> , <b>1988</b> , 39, 1017		24
21	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> , <b>1988</b> , 39, 1029		23
20	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> , <b>1988</b> , 39, 965		29
19	The narrow-leafed 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> , <b>1988</b> , 39, 1003		7
18	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
17	Population dynamics of <i>Rhizobium japonicum</i> strains used to inoculate three successive crops of soybean. <i>Australian Journal of Agricultural Research</i> , <b>1987</b> , 38, 61		60
16	Effects of Nitrate and Plant Development on the Abundance of Nitrogenous Solutes in Root-Bleeding and Vacuum-Extracted Exudates of Soybean <sup>1</sup> . <i>Crop Science</i> , <b>1984</b> , 24, 173-179	2.4	86

15	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> , <b>1984</b> , 35, 149		63
14	Relative abundance of ureides and nitrate in plant tissues of soybean as a quantitative assay of nitrogen fixation. <i>Plant Physiology</i> , <b>1982</b> , 70, 1-6	6.6	106
13	Use of the ureide technique to describe the nitrogen economy of field-grown soybeans. <i>Plant Physiology</i> , <b>1982</b> , 70, 7-11	6.6	56
12	Synthesis, Storage, and Utilization of Amino Compounds in White Lupin ( <i>Lupinus albus</i> L.). <i>Plant Physiology</i> , <b>1981</b> , 67, 37-42	6.6	44
11	Partitioning and Utilization of Net Photosynthate in a Nodulated Annual Legume. <i>Journal of Experimental Botany</i> , <b>1978</b> , 29, 401-412	7	70
10	Allantoin and Allantoic Acid in the Nitrogen Economy of the Cowpea ( <i>Vigna unguiculata</i> [L.] Walp.). <i>Plant Physiology</i> , <b>1978</b> , 62, 495-8	6.6	142
9	Utilization of net photosynthate for nitrogen fixation and protein production in an annual legume. <i>Plant Physiology</i> , <b>1977</b> , 60, 759-64	6.6	107
8	Variation in colony characteristics and symbiotic effectiveness of <i>Rhizobium</i> . <i>Journal of Applied Bacteriology</i> , <b>1975</b> , 38, 19-27		37
7	Influence of combined nitrogen on the symbiosis between single colony isolates of <i>Rhizobium</i> CB756 and <i>Macrotyloma axillare</i> . <i>Journal of Applied Bacteriology</i> , <b>1975</b> , 38, 75-8		
6	Nodulation of and nitrogen fixation by <i>Lablab purpureus</i> under field conditions. <i>Australian Journal of Experimental Agriculture</i> , <b>1975</b> , 15, 264		5
5	Studies on seed pelleting as an aid to legume seed inoculation. 4. Examination of preinoculated seed. <i>Australian Journal of Experimental Agriculture</i> , <b>1975</b> , 15, 780		19
4	Criteria and methods for comparing the effectiveness of <i>Rhizobium</i> strains for pasture legumes under field conditions. <i>Plant and Soil</i> , <b>1974</b> , 40, 511-524	4.2	6
3	Survival of some slow-growing <i>Rhizobium</i> on inoculated legume seed. <i>Plant and Soil</i> , <b>1974</b> , 40, 441-444	4.2	9
2	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
1	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