

David L Mcneil

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.

79
papers

3,083
citations

27
h-index

54
g-index

81
ext. papers

3,335
ext. citations

3.8
avg, IF

4.69
L-index

#	Paper	IF	Citations
79	A novel <i>Zea mays</i> ssp. <i>mexicana</i> L. MYC-type ICE-like transcription factor gene <i>ZmICE1</i> , enhances freezing tolerance in transgenic <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2017 , 113, 78-88	5.4	30
78	RNA-seq Analysis of Cold and Drought Responsive Transcriptomes of ssp. L. <i>Frontiers in Plant Science</i> , 2017 , 8, 136	6.2	35
77	Genome-wide association study of grain yield and related traits using a collection of advanced indica rice breeding lines for irrigated ecosystems. <i>Field Crops Research</i> , 2016 , 193, 70-86	5.5	6
76	Usefulness of the cloned and fine-mapped genes/QTL for grain yield and related traits in indica rice breeding for irrigated ecosystems. <i>Field Crops Research</i> , 2016 , 187, 58-73	5.5	7
75	Elevated atmospheric [CO ₂] can dramatically increase wheat yields in semi-arid environments and buffer against heat waves. <i>Global Change Biology</i> , 2016 , 22, 2269-84	11.4	107
74	Genotype-by-environment interaction is important for grain yield in irrigated lowland rice. <i>Field Crops Research</i> , 2015 , 180, 90-99	5.5	13
73	Perception of climate change and its impact by smallholders in pastoral/agropastoral systems of Borana, South Ethiopia. <i>SpringerPlus</i> , 2015 , 4, 236		82
72	Market chain insights created by empirical modelling of inputs to the UK nut market. <i>British Food Journal</i> , 2014 , 116, 1960-1975	2.8	1
71	Identification and molecular mapping of a dwarfing gene in barley (<i>Hordeum vulgare</i> L.) and its correlation with other agronomic traits. <i>Euphytica</i> , 2010 , 175, 331-342	2.1	31
70	Mapping of quantitative trait loci controlling barley flour pasting properties. <i>Genetica</i> , 2010 , 138, 1191-209		14
69	Strategies to Combat the Impact of Climatic Changes 2010 , 433-445		
68	Use of bacteriophages as biocontrol agents to control <i>Salmonella</i> associated with seed sprouts. <i>International Journal of Food Microbiology</i> , 2009 , 128, 453-9	5.8	102
67	Next generation of elevated [CO ₂] experiments with crops: a critical investment for feeding the future world. <i>Plant, Cell and Environment</i> , 2008 , 31, 1317-24	8.4	145
66	Sampling strategies and screening of chickpea (<i>Cicer arietinum</i> L.) germplasm for salt tolerance. <i>Genetic Resources and Crop Evolution</i> , 2008 , 55, 53-63	2	25
65	Morphological, Anatomical, and Physiological Changes of Orchardgrass Leaves Grown under Fluctuating Light Regimes. <i>Agronomy Journal</i> , 2007 , 99, 1502-1513	2.2	18
64	Climate change impact on rainfed wheat in south-eastern Australia. <i>Field Crops Research</i> , 2007 , 104, 139-147	5.17	107
63	Rhizobium Management and Nitrogen Fixation 2007 , 127-143		5

62	Validation of a canopy photosynthesis model for cocksfoot pastures grown under different light regimes. <i>Agroforestry Systems</i> , 2006 , 67, 259-272	2	6
61	Modelling photosynthetic efficiency (P) for the light-response curve of cocksfoot leaves grown under temperate field conditions. <i>European Journal of Agronomy</i> , 2005 , 22, 277-292	5	20
60	The use of a principal axis model to examine individual plant harvest index in four grain legumes. <i>Annals of Botany</i> , 2004 , 94, 385-92	4.1	2
59	Breeding for improved productivity, multiple resistance and wide adaptation in chickpea (<i>Cicer arietinum</i> L.). <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2004 , 2, 181-187	1	10
58	Light interception and utilization of four grain legumes sown at different plant populations and depths. <i>Journal of Agricultural Science</i> , 2004 , 142, 297-308	1	15
57	Variability in yield of four grain legume species in a subhumid temperate environment I. Yields and harvest index. <i>Journal of Agricultural Science</i> , 2004 , 142, 9-19	1	21
56	Variability in yield of four grain legume species in a subhumid temperate environment. II. Yield components. <i>Journal of Agricultural Science</i> , 2004 , 142, 21-28	1	18
55	Nitrogen distribution in four grain legumes. <i>Journal of Agricultural Science</i> , 2004 , 142, 309-317	1	6
54	An integrated model for predicting maximum net photosynthetic rate of cocksfoot (<i>Dactylis glomerata</i>) leaves in silvopastoral systems. <i>Agroforestry Systems</i> , 2003 , 58, 173-183	2	9
53	A canopy photosynthesis model to predict the dry matter production of cocksfoot pastures under varying temperature, nitrogen and water regimes. <i>Grass and Forage Science</i> , 2003 , 58, 416-430	2.3	10
52	Investigation of isothiocyanate yield from flowering and non-flowering tissues of wasabi grown in a flooded system. <i>Journal of Food Composition and Analysis</i> , 2003 , 16, 637-646	4.1	9
51	Comparison of isothiocyanate yield from wasabi rhizome tissues grown in soil or water. <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 3586-91	5.7	11
50	Modelling net photosynthetic rate of field-grown cocksfoot leaves to account for regrowth duration. <i>New Zealand Journal of Agricultural Research</i> , 2003 , 46, 105-115	1.9	13
49	Effects of fertilisation on the allyl isothiocyanate profile of above-ground tissues of New Zealand-grown wasabi. <i>Journal of the Science of Food and Agriculture</i> , 2002 , 82, 1477-1482	4.3	27
48	Modelling net photosynthetic rate of field-grown cocksfoot leaves under different nitrogen, water and temperature regimes. <i>Grass and Forage Science</i> , 2002 , 57, 61-71	2.3	20
47	Net photosynthetic rate of cocksfoot leaves under continuous and fluctuating shade conditions in the field. <i>Grass and Forage Science</i> , 2002 , 57, 157-170	2.3	23
46	Breeding for resistance to lentil <i>Ascochyta</i> blight. <i>Plant Breeding</i> , 2002 , 121, 185-191	2.4	36
45	Comparison of low- and high molecular-weight wheat glutenin allele effects on flour quality. <i>Theoretical and Applied Genetics</i> , 2001 , 102, 1088-1098	6	105

44	Morphological characterisation and agronomic evaluation of transgenic broccoli (<i>Brassica oleracea</i> L. var. <i>italica</i>) containing an antisense ACC oxidase gene. <i>Euphytica</i> , 2000 , 113, 9-18	2.1	17
43	The Effect of Nitrogen and Sulphur Fertilisation and their Interaction with Genotype on Wheat Glutenins and Quality Parameters. <i>Journal of Cereal Science</i> , 2000 , 31, 185-194	3.8	64
42	Factors that influence <i>Agrobacterium rhizogenes</i> -mediated transformation of broccoli (<i>Brassica oleracea</i> L. var. <i>italica</i>). <i>Plant Cell Reports</i> , 2000 , 19, 994-999	5.1	57
41	Origin and relationships of New Zealand chestnut (<i>Castanea</i> sp. <i>Fagaceae</i>) selections reflect patterns of graft failure. <i>Plant Systematics and Evolution</i> , 1999 , 218, 193-204	1.3	1
40	The influence of present-day levels of ultraviolet-B radiation on seedlings of two Southern Hemisphere temperate tree species 1999 , 143, 39-50		29
39	Fatty acid and tocopherol contents and oxidative stability of walnut oils. <i>JAACS, Journal of the American Oil ChemistssSociety</i> , 1999 , 76, 1059-1063	1.8	116
38	Effect of interstock bridge grafting (M9 dwarfing rootstock and same cultivar cutting) on vegetative growth, reproductive growth and carbohydrate composition of mature apple trees. <i>Scientia Horticulturae</i> , 1999 , 79, 23-38	4.1	16
37	<i>Agrobacterium rhizogenes</i> -mediated transformation of broccoli (<i>Brassica oleracea</i> L. var. <i>italica</i>) with an antisense 1-aminocyclopropane-1-carboxylic acid oxidase gene. <i>Plant Science</i> , 1999 , 143, 55-62	5.3	32
36	A tomato antisense 1-aminocyclopropane-1-carboxylic acid oxidase gene causes reduced ethylene production in transgenic broccoli. <i>Functional Plant Biology</i> , 1999 , 26, 179	2.7	19
35	Relationships of chestnut species and New Zealand chestnut selections using morpho-nut characters. <i>Euphytica</i> , 1998 , 99, 27-33	2.1	7
34	Components of quantitative resistance to powdery mildew (<i>Erysiphe pisi</i>) in pea (<i>Pisum sativum</i>). <i>Plant Pathology</i> , 1998 , 47, 137-147	2.8	26
33	Spatial and temporal spread of powdery mildew (<i>Erysiphe pisi</i>) in peas (<i>Pisum sativum</i>) varying in quantitative resistance. <i>Plant Pathology</i> , 1998 , 47, 148-156	2.8	5
32	Examination of graft failure in New Zealand chestnut (<i>Castanea</i> spp) selections. <i>Scientia Horticulturae</i> , 1998 , 76, 89-103	4.1	7
31	Root pruning reduces the vegetative and reproductive growth of apple trees growing under an ultra high density planting system. <i>Scientia Horticulturae</i> , 1998 , 77, 165-176	4.1	19
30	Chemical composition of hazelnuts (<i>Corylus avellana</i> L.) grown in New Zealand. <i>International Journal of Food Sciences and Nutrition</i> , 1998 , 49, 199-203	3.7	21
29	Effects of irradiance and nitrogen on <i>Clematis vitalba</i> establishment in a New Zealand lowland podocarp forest remnant. <i>New Zealand Journal of Botany</i> , 1998 , 36, 661-670	1	7
28	Nitrogen status affects UV-B sensitivity of cucumber. <i>Functional Plant Biology</i> , 1998 , 25, 79	2.7	34
27	<i>Clematis vitalba</i> in a New Zealand native forest remnant: does seed germination explain distribution?. <i>New Zealand Journal of Botany</i> , 1997 , 35, 525-534	1	17

26	Effects of Chilling, Light and Nitrogen-containing Compounds on Germination, Rate of Germination and Seed Imbibition of <i>Clematis vitalba</i> L.. <i>Annals of Botany</i> , 1997 , 79, 643-650	4.1	21
25	Validation of the Principal Axis Model (PAM) and its Application to Genotype Selection in Field Pea (<i>Pisum sativum</i> L.) Crops. <i>Annals of Botany</i> , 1997 , 79, 651-656	4.1	4
24	The response of young Braeburn and Oregon Spur Delicious Apple trees growing under an ultra-high density planting system to soil-applied paclobutrazol: I. Effect on reproductive and vegetative growth. <i>Scientia Horticulturae</i> , 1997 , 72, 11-24	4.1	5
23	Morphological and molecular analysis of androgenetic, selfed and backcrossed plants produced from a <i>Hordeum vulgare</i> x <i>H. bulbosum</i> hybrid. <i>Plant Breeding</i> , 1997 , 116, 505-510	2.4	7
22	Phylogenetic relationships in <i>Lens</i> species and their interspecific hybrids as measured by morphological characters. <i>Euphytica</i> , 1997 , 94, 101-111	2.1	18
21	Identification and genetic characterization of different resistance sources to ascochyta blight within the genus <i>Lens</i> . <i>Euphytica</i> , 1997 , 97, 311-315	2.1	22
20	Lipid composition and oxidative stability of oils in hazelnuts (<i>Corylus avellana</i> L.) grown in New Zealand. <i>JAOCs, Journal of the American Oil Chemists Society</i> , 1997 , 74, 755-759	1.8	113
19	Effects of Nitrogen on the Photosynthetic Apparatus of <i>Clematis vitalba</i> Grown at Several Irradiances. <i>Functional Plant Biology</i> , 1997 , 24, 205	2.7	35
18	Genetic relationships in <i>Lens</i> species and parentage determination of their interspecific hybrids using RAPD markers. <i>Theoretical and Applied Genetics</i> , 1996 , 92, 1091-8	6	22
17	Comparison of crossability, RAPD, SDS-PAGE and morphological markers for revealing genetic relationships within and among <i>Lens</i> species. <i>Theoretical and Applied Genetics</i> , 1996 , 93, 788-93	6	26
16	Response in chlorophyll a fluorescence of six New Zealand tree species to a step-wise increase in ultraviolet-B irradiance. <i>New Zealand Journal of Botany</i> , 1996 , 34, 401-410	1	6
15	Yield components, harvest index and plant type in relation to yield differences in field pea genotypes. <i>Euphytica</i> , 1995 , 86, 31-40	2.1	25
14	Attempts to overcome postfertilization barrier in interspecific crosses of the genus <i>Lens</i> . <i>Plant Breeding</i> , 1995 , 114, 558-560	2.4	39
13	IBPGR morphological descriptors - their relevance in determining patterns within a diverse spring barley germplasm collection. <i>Theoretical and Applied Genetics</i> , 1992 , 85, 489-95	6	4
12	Effect of Oxygen Supply on Nitrogenase Activity of Nitrate- and Dark-Stressed Soybean (<i>Glycine max</i> (L.) Merr.) Plants. <i>Functional Plant Biology</i> , 1987 , 14, 679	2.7	11
11	Mutagenesis of soybean (<i>Glycine max</i> (L.) Merr.) and the isolation of non-nodulating mutants. <i>Plant Science</i> , 1986 , 47, 109-114	5.3	71
10	Isolation and properties of soybean [<i>Glycine max</i> (L.) Merr.] mutants that nodulate in the presence of high nitrate concentrations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 4162-6	11.5	319
9	A Supernodulation and Nitrate-Tolerant Symbiotic (nts) Soybean Mutant. <i>Plant Physiology</i> , 1985 , 78, 34-40	6.6	344

8	Effect of nitrogen source on ureides in soybean. <i>Plant Physiology</i> , 1984 , 74, 227-32	6.6	31
7	Variations in Ability of <i>Rhizobium japonicum</i> Strains To Nodulate Soybeans and Maintain Fixation in the Presence of Nitrate. <i>Applied and Environmental Microbiology</i> , 1982 , 44, 647-52	4.8	39
6	The Role of the Stem in Phloem Loading of Minerals in <i>Lupinus albus</i> L. cv. Ultra. <i>Annals of Botany</i> , 1980 , 45, 329-338	4.1	17
5	Phloem Loading and Metabolism of Xylem-Borne Amino Compounds in Fruiting Shoots of a Legume. <i>Journal of Experimental Botany</i> , 1980 , 31, 1509-1520	7	23
4	Uptake and Utilization of Xylem-borne Amino Compounds by Shoot Organs of a Legume. <i>Plant Physiology</i> , 1979 , 63, 1076-81	6.6	79
3	The Kinetics of Phloem Loading of Valine in the Shoot of a Nodulated Legume (<i>Lupinus albus</i> L. cv. Ultra). <i>Journal of Experimental Botany</i> , 1979 , 30, 1003-1012	7	9
2	Modeling the transport and utilization of carbon and nitrogen in a nodulated legume. <i>Plant Physiology</i> , 1979 , 63, 730-7	6.6	131
1	Transport of organic solutes in Phloem and xylem of a nodulated legume. <i>Plant Physiology</i> , 1979 , 63, 1082-8	6.6	79