David L Mcneil

List of Publications by Year
in descending order

80 papers	3,733 citations	182225 30 h-index	150775 59 g-index
81 all docs	81 docs citations	81 times ranked	3815 citing authors

#	Article	IF	Citations
1	Rain events at maturity severely impact the seed quality of psyllium (Plantago ovata Forssk.). Journal of Agronomy and Crop Science, 2022, 208, 567-581.	1.7	3
2	A novel Zea mays ssp. mexicana L. MYC-type ICE-like transcription factor gene ZmmICE1, enhances freezing tolerance in transgenic Arabidopsis thaliana. Plant Physiology and Biochemistry, 2017, 113, 78-88.	2.8	51
3	RNA-seq Analysis of Cold and Drought Responsive Transcriptomes of Zea mays ssp. mexicana L.. Frontiers in Plant Science, 2017, 8, 136.	1.7	58
4	Elevated atmospheric [CO₂] can dramatically increase wheat yields in semiâ€arid environments and buffer against heat waves. Global Change Biology, 2016, 22, 2269-2284.	4.2	134
5	Genome-wide association study of grain yield and related traits using a collection of advanced indica rice breeding lines for irrigated ecosystems. Field Crops Research, 2016, 193, 70-86.	2.3	17
6	Usefulness of the cloned and fine-mapped genes/QTL for grain yield and related traits in indica rice breeding for irrigated ecosystems. Field Crops Research, 2016, 187, 58-73.	2.3	15
7	Perception of climate change and its impact by smallholders in pastoral/agropastoral systems of Borana, South Ethiopia. SpringerPlus, 2015, 4, 236.	1.2	130
8	Genotype-by-environment interaction is important for grain yield in irrigated lowland rice. Field Crops Research, 2015, 180, 90-99.	2.3	25
9	Market chain insights created by empirical modelling of inputs to the UK nut market. British Food Journal, 2014, 116, 1960-1975.	1.6	1
10	Identification and molecular mapping of a dwarfing gene in barley (Hordeum vulgare L.) and its correlation with other agronomic traits. Euphytica, 2010, 175, 331-342.	0.6	42
11	Mapping of quantitative trait loci controlling barley flour pasting properties. Genetica, 2010, 138, 1191-1200.	0.5	17
12	Strategies to Combat the Impact of Climatic Changes. , 2010, , 433-445.		0
13	Use of bacteriophages as biocontrol agents to control Salmonella associated with seed sprouts. International Journal of Food Microbiology, 2009, 128, 453-459.	2.1	119
14	Sampling strategies and screening of chickpea (Cicer arietinum L.) germplasm for salt tolerance. Genetic Resources and Crop Evolution, 2008, 55, 53-63.	0.8	33
15	Next generation of elevated [CO₂] experiments with crops: a critical investment for feeding the future world. Plant, Cell and Environment, 2008, 31, 1317-1324.	2.8	154
16	Climate change impact on rainfed wheat in south-eastern Australia. Field Crops Research, 2007, 104, 139-147.	2.3	119
17	Morphological, Anatomical, and Physiological Changes of Orchardgrass Leaves Grown under Fluctuating Light Regimes. Agronomy Journal, 2007, 99, 1502-1513.	0.9	22
18	Rhizobium Management and Nitrogen Fixation. , 2007, , 127-143.		7

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19	Validation of a canopy photosynthesis model for cocksfoot pastures grown under different light regimes. Agroforestry Systems, 2006, 67, 259-272.	0.9	8
20	Modelling photosynthetic efficiency (Î±) for the light-response curve of cocksfoot leaves grown under temperate field conditions. European Journal of Agronomy, 2005, 22, 277-292.	1.9	23
21	The Use of a Principal Axis Model to Examine Individual Plant Harvest Index in Four Grain Legumes. Annals of Botany, 2004, 94, 385-392.	1.4	3
22	Breeding for improved productivity, multiple resistance and wide adaptation in chickpea (Cicer) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.4	13
23	Light interception and utilization of four grain legumes sown at different plant populations and depths. Journal of Agricultural Science, 2004, 142, 297-308.	0.6	20
24	Variability in yield of four grain legume species in a subhumid temperate environment I. Yields and harvest index. Journal of Agricultural Science, 2004, 142, 9-19.	0.6	25
25	Variability in yield of four grain legume species in a subhumid temperate environment. II. Yield components. Journal of Agricultural Science, 2004, 142, 21-28.	0.6	25
26	Nitrogen distribution in four grain legumes. Journal of Agricultural Science, 2004, 142, 309-317.	0.6	8
27	Title is missing!. Agroforestry Systems, 2003, 58, 173-183.	0.9	10
28	A canopy photosynthesis model to predict the dry matter production of cocksfoot pastures under varying temperature, nitrogen and water regimes. Grass and Forage Science, 2003, 58, 416-430.	1.2	11
29	Investigation of isothiocyanate yield from flowering and non-flowering tissues of wasabi grown in a flooded system. Journal of Food Composition and Analysis, 2003, 16, 637-646.	1.9	12
30	Comparison of Isothiocyanate Yield from Wasabi Rhizome Tissues Grown in Soil or Water. Journal of Agricultural and Food Chemistry, 2003, 51, 3586-3591.	2.4	14
31	Modelling net photosynthetic rate of fieldâ€grown cocksfoot leaves to account for regrowth duration. New Zealand Journal of Agricultural Research, 2003, 46, 105-115.	0.9	15
32	Effects of fertilisation on the allyl isothiocyanate profile of above-ground tissues of New Zealand-grown wasabi. Journal of the Science of Food and Agriculture, 2002, 82, 1477-1482.	1.7	32
33	Modelling net photosynthetic rate of field-grown cocksfoot leaves under different nitrogen, water and temperature regimes. Grass and Forage Science, 2002, 57, 61-71.	1.2	25
34	Net photosynthetic rate of cocksfoot leaves under continuous and fluctuating shade conditions in the field. Grass and Forage Science, 2002, 57, 157-170.	1.2	28
35	Breeding for resistance to lentil Ascochyta blight. Plant Breeding, 2002, 121, 185-191.	1.0	43
36	Comparison of low- and high molecular-weight wheat glutenin allele effects on flour quality. Theoretical and Applied Genetics, 2001, 102, 1088-1098.	1.8	118

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37	Title is missing!. Euphytica, 2000, 113, 9-18.	0.6	20
38	The Effect of Nitrogen and Sulphur Fertilisation and their Interaction with Genotype on Wheat Glutenins and Quality Parameters. Journal of Cereal Science, 2000, 31, 185-194.	1.8	77
39	Factors that influence Agrobacterium rhizogenes -mediated transformation of broccoli (Brassica) Tj ETQq1 1 0.784314 rgBT /Overloc	2.8	65
40	Origin and relationships of New Zealand chestnut (Castanea sp.Fagaceae) selections reflect patterns of graft failure. Plant Systematics and Evolution, 1999, 218, 193-204.	0.3	1
41	Title is missing!. , 1999, 143, 39-50.		31
42	Fatty acid and tocopherol contents and oxidative stability of walnut oils. JAOCS, Journal of the American Oil Chemists' Society, 1999, 76, 1059-1063.	0.8	130
43	Effect of interstock bridge grafting (M9 dwarfing rootstock and same cultivar cutting) on vegetative growth, reproductive growth and carbohydrate composition of mature apple trees. Scientia Horticulturae, 1999, 79, 23-38.	1.7	17
44	Agrobacterium rhizogenes-mediated transformation of broccoli (Brassica oleracea L. var. italica) with an antisense 1-aminocyclopropane-1-carboxylic acid oxidase gene. Plant Science, 1999, 143, 55-62.	1.7	37
45	A tomato antisense 1-aminocyclopropane-1-carboxylic acid oxidase gene causes reduced ethylene production in transgenic broccoli. Functional Plant Biology, 1999, 26, 179.	1.1	26
46	Relationships of chestnut species and New Zealand chestnut selections using morpho-nut characters. Euphytica, 1998, 99, 27-33.	0.6	11
47	Components of quantitative resistance to powdery mildew (Erysiphe pisi) in pea (Pisum sativum). Plant Pathology, 1998, 47, 137-147.	1.2	28
48	Spatial and temporal spread of powdery mildew (Erysiphe pisi) in peas (Pisum sativum) varying in quantitative resistance. Plant Pathology, 1998, 47, 148-156.	1.2	5
49	Examination of graft failure in New Zealand chestnut (Castanea spp) selections. Scientia Horticulturae, 1998, 76, 89-103.	1.7	10
50	Root pruning reduces the vegetative and reproductive growth of apple trees growing under an ultra high density planting system. Scientia Horticulturae, 1998, 77, 165-176.	1.7	22
51	Chemical composition of hazelnuts (Corylus avellanaL.) grown in New Zealand. International Journal of Food Sciences and Nutrition, 1998, 49, 199-203.	1.3	30
52	Effects of irradiance and nitrogen onClematis vitalbaestablishment in a New Zealand lowland podocarp forest remnant. New Zealand Journal of Botany, 1998, 36, 661-670.	0.8	10
53	Nitrogen status affects UV-B sensitivity of cucumber. Functional Plant Biology, 1998, 25, 79.	1.1	54
54	Clematis vitalbain a New Zealand native forest remnant: does seed germination explain distribution?. New Zealand Journal of Botany, 1997, 35, 525-534.	0.8	20

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55	Effects of Chilling, Light and Nitrogen-containing Compounds on Germination, Rate of Germination and Seed Imbibition ofClematis vitalbaL.. Annals of Botany, 1997, 79, 643-650.	1.4	30
56	Validation of the Principal Axis Model (PAM) and its Application to Genotype Selection in Field Pea (Pisum sativumL.) Crops. Annals of Botany, 1997, 79, 651-656.	1.4	7
57	The response of young â€˜Braeburnâ€™ and â€˜Oregon Spur Deliciousâ€™ apple trees growing under an ultra-high density planting system to soil-applied paclobutrazol: I. Effect on reproductive and vegetative growth. Scientia Horticulturae, 1997, 72, 11-24.	1.7	7
58	Morphological and molecular analysis of androgenetic, selfed and backcrossed plants produced from a Hordeum vulgare x H, bulbosum hybrid. Plant Breeding, 1997, 116, 505-510.	1.0	7
59	Title is missing!. Euphytica, 1997, 94, 101-111.	0.6	23
60	Title is missing!. Euphytica, 1997, 97, 311-315.	0.6	31
61	Lipid composition and oxidative stability of oils in hazelnuts (Corylus avellana L.) grown in New Zealand. JAOCS, Journal of the American Oil Chemists' Society, 1997, 74, 755-759.	0.8	142
62	Effects of Nitrogen on the Photosynthetic Apparatus of Clematis vitalba Grown at Several Irradiances. Functional Plant Biology, 1997, 24, 205.	1.1	48
63	Genetic relationships in Lens species and parentage determination of their interspecific hybrids using RAPD markers. Theoretical and Applied Genetics, 1996, 92, 1091-1098.	1.8	29
64	Comparison of crossability, RAPD, SDS-PAGE and morphological markers for revealing genetic relationships within and among Lens species. Theoretical and Applied Genetics, 1996, 93-93, 788-793.	1.8	33
65	Response in chlorophyll a fluorescence of six New Zealand tree species to a step-wise increase in ultraviolet-B irradiance. New Zealand Journal of Botany, 1996, 34, 401-410.	0.8	11
66	Yield components, harvest index and plant type in relation to yield differences in field pea genotypes. Euphytica, 1995, 86, 31-40.	0.6	33
67	Attempts to overcome postfertilization barrier in interspecific crosses of the genus Lens. Plant Breeding, 1995, 114, 558-560.	1.0	46
68	IBPGR morphological descriptors â€” their relevance in determining patterns within a diverse spring barley germplasm collection. Theoretical and Applied Genetics, 1992, 85, 489-495.	1.8	4
69	Effect of Oxygen Supply on Nitrogenase Activity of Nitrate- and Dark-Stressed Soybean (Glycine max (L.)) Tj ETQq1 1 0.784314 rgBT /	1.1	21
70	Mutagenesis of soybean (Glycine max (L.) Merr.) and the isolation of non-nodulating mutants. Plant Science, 1986, 47, 109-114.	1.7	79
71	Isolation and properties of soybean [Glycine max (L.) Merr.] mutants that nodulate in the presence of high nitrate concentrations. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 4162-4166.	3.3	360
72	A Supernodulation and Nitrate-Tolerant Symbiotic (nts) Soybean Mutant. Plant Physiology, 1985, 78, 34-40.	2.3	372

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73	Effect of Nitrogen Source on Ureides in Soybean. Plant Physiology, 1984, 74, 227-232.	2.3	35
74	Variations in Ability of Rhizobium japonicum Strains To Nodulate Soybeans and Maintain Fixation in the Presence of Nitrate. Applied and Environmental Microbiology, 1982, 44, 647-652.	1.4	52
75	The Role of the Stem in Phloem Loading of Minerals in Lupinus albus L. cv. Ultra. Annals of Botany, 1980, 45, 329-338.	1.4	22
76	Phloem Loading and Metabolism of Xylem-Borne Amino Compounds in Fruiting Shoots of a Legume. Journal of Experimental Botany, 1980, 31, 1509-1520.	2.4	29
77	Uptake and Utilization of Xylem-borne Amino Compounds by Shoot Organs of a Legume. Plant Physiology, 1979, 63, 1076-1081.	2.3	86
78	The Kinetics of Phloem Loading of Valine in the Shoot of a Nodulated Legume (Lupinus albusL. cv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.4	9
79	Modeling the Transport and Utilization of Carbon and Nitrogen in a Nodulated Legume. Plant Physiology, 1979, 63, 730-737.	2.3	148
80	Transport of Organic Solutes in Phloem and Xylem of a Nodulated Legume. Plant Physiology, 1979, 63, 1082-1088.	2.3	94