

David L Mcneil

List of Publications by Year in descending order

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80
papers

3,733
citations

159573

30
h-index

133244

59
g-index

81
all docs

81
docs citations

81
times ranked

3434
citing authors

#	ARTICLE	IF	CITATIONS
1	A Supernodulation and Nitrate-Tolerant Symbiotic (<i>nts</i>) Soybean Mutant. <i>Plant Physiology</i> , 1985, 78, 34-40.	4.8	372
2	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, 4162-4166.	7.1	360
3	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, 1317-1324.	5.7	154
4	Modeling the Transport and Utilization of Carbon and Nitrogen in a Nodulated Legume. <i>Plant Physiology</i> , 1979, 63, 730-737.	4.8	148
5	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.	1.9	142
6	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, 2269-2284.	9.5	134
7	Fatty acid and tocopherol contents and oxidative stability of walnut oils. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1999, 76, 1059-1063.	1.9	130
8	Perception of climate change and its impact by smallholders in pastoral/agropastoral systems of Borana, South Ethiopia. <i>SpringerPlus</i> , 2015, 4, 236.	1.2	130
9	Climate change impact on rainfed wheat in south-eastern Australia. <i>Field Crops Research</i> , 2007, 104, 139-147.	5.1	119
10	Use of bacteriophages as biocontrol agents to control <i>Salmonella</i> associated with seed sprouts. <i>International Journal of Food Microbiology</i> , 2009, 128, 453-459.	4.7	119
11	Comparison of low- and high molecular-weight wheat glutenin allele effects on flour quality. <i>Theoretical and Applied Genetics</i> , 2001, 102, 1088-1098.	3.6	118
12	Transport of Organic Solutes in Phloem and Xylem of a Nodulated Legume. <i>Plant Physiology</i> , 1979, 63, 1082-1088.	4.8	94
13	Uptake and Utilization of Xylem-borne Amino Compounds by Shoot Organs of a Legume. <i>Plant Physiology</i> , 1979, 63, 1076-1081.	4.8	86
14	Mutagenesis of soybean (<i>Glycine max</i> (L.) Merr.) and the isolation of non-nodulating mutants. <i>Plant Science</i> , 1986, 47, 109-114.	3.6	79
15	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.	3.7	77
16	Factors that influence <i>Agrobacterium rhizogenes</i> -mediated transformation of broccoli (<i>Brassica</i>) Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50	5.6	65
17	RNA-seq Analysis of Cold and Drought Responsive Transcriptomes of <i>Zea mays</i> ssp. <i>mexicana</i> L.. <i>Frontiers in Plant Science</i> , 2017, 8, 136.	3.6	58
18	Nitrogen status affects UV-B sensitivity of cucumber. <i>Functional Plant Biology</i> , 1998, 25, 79.	2.1	54

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19	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, 647-652.	3.1	52
20	A novel <i>Zea mays</i> ssp. <i>mexicana</i> L. MYC-type ICE-like transcription factor gene <i>ZmmICE1</i> , enhances freezing tolerance in transgenic <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2017, 113, 78-88.	5.8	51
21	Effects of Nitrogen on the Photosynthetic Apparatus of <i>Clematis vitalba</i> Grown at Several Irradiances. <i>Functional Plant Biology</i> , 1997, 24, 205.	2.1	48
22	Attempts to overcome postfertilization barrier in interspecific crosses of the genus <i>Lens</i> . <i>Plant Breeding</i> , 1995, 114, 558-560.	1.9	46
23	Breeding for resistance to lentil <i>Ascochyta</i> blight. <i>Plant Breeding</i> , 2002, 121, 185-191.	1.9	43
24	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.	1.2	42
25	<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.	3.6	37
26	Effect of Nitrogen Source on Ureides in Soybean. <i>Plant Physiology</i> , 1984, 74, 227-232.	4.8	35
27	Yield components, harvest index and plant type in relation to yield differences in field pea genotypes. <i>Euphytica</i> , 1995, 86, 31-40.	1.2	33
28	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, 93-93, 788-793.	3.6	33
29	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.	1.6	33
30	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.	3.5	32
31	Title is missing!. <i>Euphytica</i> , 1997, 97, 311-315.	1.2	31
32	Title is missing!. , 1999, 143, 39-50.		31
33	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.	2.9	30
34	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.	2.8	30
35	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.	4.8	29
36	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, 1091-1098.	3.6	29

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37	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.	2.4	28
38	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.	2.9	28
39	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.	2.1	26
40	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.	2.9	25
41	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.	1.3	25
42	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.	1.3	25
43	Genotype-by-environment interaction is important for grain yield in irrigated lowland rice. <i>Field Crops Research</i> , 2015, 180, 90-99.	5.1	25
44	Title is missing!. <i>Euphytica</i> , 1997, 94, 101-111.	1.2	23
45	Modelling photosynthetic efficiency (\bar{i}) for the light-response curve of cocksfoot leaves grown under temperate field conditions. <i>European Journal of Agronomy</i> , 2005, 22, 277-292.	4.1	23
46	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.	2.9	22
47	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.	3.6	22
48	Morphological, Anatomical, and Physiological Changes of Orchardgrass Leaves Grown under Fluctuating Light Regimes. <i>Agronomy Journal</i> , 2007, 99, 1502-1513.	1.8	22
49	Effect of Oxygen Supply on Nitrogenase Activity of Nitrate- and Dark-Stressed Soybean (<i>Glycine max</i> (L.) Tj ETQq1.1.0.784314 rgBT / 2.1 21	2.1	21
50	<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.	1.1	20
51	Title is missing!. <i>Euphytica</i> , 2000, 113, 9-18.	1.2	20
52	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.	1.3	20
53	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.	3.6	17
54	Mapping of quantitative trait loci controlling barley flour pasting properties. <i>Genetica</i> , 2010, 138, 1191-1200.	1.1	17

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55	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.	5.1	17
56	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.	1.6	15
57	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.	5.1	15
58	Comparison of Isothiocyanate Yield from Wasabi Rhizome Tissues Grown in Soil or Water. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 3586-3591.	5.2	14
59	Breeding for improved productivity, multiple resistance and wide adaptation in chickpea (<i>Cicer</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 0.8 13	0.8	13
60	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.	3.9	12
61	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.	1.1	11
62	Relationships of chestnut species and New Zealand chestnut selections using morpho-nut characters. <i>Euphytica</i> , 1998, 99, 27-33.	1.2	11
63	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.	2.9	11
64	Examination of graft failure in New Zealand chestnut (<i>Castanea</i> spp) selections. <i>Scientia Horticulturae</i> , 1998, 76, 89-103.	3.6	10
65	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.	1.1	10
66	Title is missing!. <i>Agroforestry Systems</i> , 2003, 58, 173-183.	2.0	10
67	The Kinetics of Phloem Loading of Valine in the Shoot of a Nodulated Legume (<i>Lupinus albus</i> L. cv.) Tj ETQq1 1 0.784314 rgBT /Overlock 10 4.8 9	4.8	9
68	Nitrogen distribution in four grain legumes. <i>Journal of Agricultural Science</i> , 2004, 142, 309-317.	1.3	8
69	Validation of a canopy photosynthesis model for cocksfoot pastures grown under different light regimes. <i>Agroforestry Systems</i> , 2006, 67, 259-272.	2.0	8
70	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.	2.9	7
71	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.	3.6	7
72	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.	1.9	7

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73	Rhizobium Management and Nitrogen Fixation. , 2007, , 127-143.		7
74	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.	2.4	5
75	IBPGR morphological descriptors " their relevance in determining patterns within a diverse spring barley germplasm collection. <i>Theoretical and Applied Genetics</i> , 1992, 85, 489-495.	3.6	4
76	The Use of a Principal Axis Model to Examine Individual Plant Harvest Index in Four Grain Legumes. <i>Annals of Botany</i> , 2004, 94, 385-392.	2.9	3
77	Rain events at maturity severely impact the seed quality of psyllium (<i>Plantago ovata</i> Forssk.). <i>Journal of Agronomy and Crop Science</i> , 2022, 208, 567-581.	3.5	3
78	Origin and relationships of New Zealand chestnut (<i>Castanea</i> sp.Fagaceae) selections reflect patterns of graft failure. <i>Plant Systematics and Evolution</i> , 1999, 218, 193-204.	0.9	1
79	Market chain insights created by empirical modelling of inputs to the UK nut market. <i>British Food Journal</i> , 2014, 116, 1960-1975.	2.9	1
80	Strategies to Combat the Impact of Climatic Changes. , 2010, , 433-445.		0