

Brian G Forde

List of Publications by Year in descending order

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89
papers

12,294
citations

44444

50
h-index

58552

86
g-index

151
all docs

151
docs citations

151
times ranked

10252
citing authors

#	ARTICLE	IF	CITATIONS
1	Involvement of a truncated MADS-box transcription factor ZmTMM1 in root nitrate foraging. <i>Journal of Experimental Botany</i> , 2020, 71, 4547-4561.	2.4	18
2	Plastic and genetic responses of a common sedge to warming have contrasting effects on carbon cycle processes. <i>Ecology Letters</i> , 2019, 22, 159-169.	3.0	25
3	Novel Micro-Phenotyping Approach to Chemical Genetic Screening for Increased Plant Tolerance to Abiotic Stress. <i>Methods in Molecular Biology</i> , 2018, 1795, 9-25.	0.4	4
4	How do plants sense their nitrogen status?. <i>Journal of Experimental Botany</i> , 2017, 68, 2531-2539.	2.4	92
5	The Microphenotron: a robotic miniaturized plant phenotyping platform with diverse applications in chemical biology. <i>Plant Methods</i> , 2017, 13, 10.	1.9	18
6	AutoRoot: open-source software employing a novel image analysis approach to support fully-automated plant phenotyping. <i>Plant Methods</i> , 2017, 13, 12.	1.9	13
7	Stomatal and growth responses to hydraulic and chemical changes induced by progressive soil drying. <i>Journal of Experimental Botany</i> , 2017, 68, 5883-5894.	2.4	8
8	The Biphasic Root Growth Response to Abscisic Acid in Arabidopsis Involves Interaction with Ethylene and Auxin Signalling Pathways. <i>Frontiers in Plant Science</i> , 2017, 8, 1493.	1.7	98
9	QTL analysis of the developmental response to L-glutamate in Arabidopsis roots and its genotype-by-environment interactions. <i>Journal of Experimental Botany</i> , 2017, 68, 2919-2931.	2.4	4
10	Plant Methods reviewer acknowledgement 2014. <i>Plant Methods</i> , 2015, 11, .	1.9	0
11	MADS-box Transcription Factor OsMADS25 Regulates Root Development through Affection of Nitrate Accumulation in Rice. <i>PLoS ONE</i> , 2015, 10, e0135196.	1.1	81
12	Glutamate receptor-like channels in plants: a role as amino acid sensors in plant defence?. <i>F1000prime Reports</i> , 2014, 6, 37.	5.9	134
13	A unified nomenclature of NITRATE TRANSPORTER 1/PEPTIDE TRANSPORTER family members in plants. <i>Trends in Plant Science</i> , 2014, 19, 5-9.	4.3	581
14	Glutamate signalling in roots. <i>Journal of Experimental Botany</i> , 2014, 65, 779-787.	2.4	114
15	Nitrogen signalling pathways shaping root system architecture: an update. <i>Current Opinion in Plant Biology</i> , 2014, 21, 30-36.	3.5	202
16	Glutamate signalling via a MEKK1 kinase-dependent pathway induces changes in Arabidopsis root architecture. <i>Plant Journal</i> , 2013, 75, 1-10.	2.8	65
17	Nitrogen Use Efficiency in Plants. <i>Journal of Experimental Botany</i> , 2012, 63, 4993-4993.	2.4	5
18	Quantitative Analysis of Lateral Root Development: Pitfalls and How to Avoid Them. <i>Plant Cell</i> , 2012, 24, 4-14.	3.1	98

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19	Overexpressing the ANR1 MADS-Box Gene in Transgenic Plants Provides New Insights into its Role in the Nitrate Regulation of Root Development. <i>Plant and Cell Physiology</i> , 2012, 53, 1003-1016.	1.5	103
20	A Comparison Between Northern Blotting and Quantitative Real-Time PCR as a Means of Detecting the Nutritional Regulation of Genes Expressed in Roots of <i>Arabidopsis thaliana</i> . <i>Agricultural Sciences in China</i> , 2011, 10, 335-342.	0.6	12
21	Shootward and rootward: peak terminology for plant polarity. <i>Trends in Plant Science</i> , 2010, 15, 593-594.	4.3	39
22	Is it good noise? The role of developmental instability in the shaping of a root system. <i>Journal of Experimental Botany</i> , 2009, 60, 3989-4002.	2.4	78
23	Nitrate and glutamate as environmental cues for behavioural responses in plant roots. <i>Plant, Cell and Environment</i> , 2009, 32, 682-693.	2.8	130
24	Gene expression, cellular localisation and function of glutamine synthetase isozymes in wheat (<i>Triticum aestivum</i> L.). <i>Plant Molecular Biology</i> , 2008, 67, 89-105.	2.0	172
25	Nitrate signalling mediated by the NRT1.1 nitrate transporter antagonises I-glutamate-induced changes in root architecture. <i>Plant Journal</i> , 2008, 54, 820-828.	2.8	200
26	L-Glutamate as a Novel Modifier of Root Growth and Branching. <i>Plant Signaling and Behavior</i> , 2007, 2, 284-286.	1.2	26
27	Glutamate in plants: metabolism, regulation, and signalling. <i>Journal of Experimental Botany</i> , 2007, 58, 2339-2358.	2.4	844
28	Plant Methods moves to fund open-access publishing. <i>Plant Methods</i> , 2006, 2, 6.	1.9	0
29	Expression and transport characterisation of the wheat low-affinity cation transporter (LCT1) in the methylotrophic yeast <i>Pichia pastoris</i> . <i>Biochemical and Biophysical Research Communications</i> , 2006, 344, 807-813.	1.0	15
30	Nitrate assimilation in the forage legume <i>Lotus japonicus</i> L.. <i>Planta</i> , 2006, 223, 821-834.	1.6	12
31	Evidence that I-Glutamate Can Act as an Exogenous Signal to Modulate Root Growth and Branching in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2006, 47, 1045-1057.	1.5	228
32	The <i>Arabidopsis</i> NRT1.1 transporter participates in the signaling pathway triggering root colonization of nitrate-rich patches. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19206-19211.	3.3	481
33	Nitrogen Regulation of Root Branching. <i>Annals of Botany</i> , 2006, 97, 875-881.	1.4	296
34	Nitrate and glutamate sensing by plant roots. <i>Biochemical Society Transactions</i> , 2005, 33, 283-286.	1.6	56
35	Nutritional regulation of ANR1 and other root-expressed MADS-box genes in <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2005, 222, 730-742.	1.6	148
36	Signaling mechanisms integrating root and shoot responses to changes in the nitrogen supply. <i>Photosynthesis Research</i> , 2005, 83, 239-250.	1.6	83

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37	What is apical and what is basal in plant root development?. Trends in Plant Science, 2005, 10, 409-411.	4.3	30
38	Plant Methods: putting the spotlight on technological innovation in the plant sciences. Plant Methods, 2005, 1, 1.	1.9	31
39	Focus on Plant Nutrition. Plant Physiology, 2004, 136, 2437-2437.	2.3	7
40	Transcriptome analysis of root transporters reveals participation of multiple gene families in the response to cation stress. Plant Journal, 2003, 35, 675-692.	2.8	286
41	Molecular and Developmental Biology of Inorganic Nitrogen Nutrition. The Arabidopsis Book, 2002, 1, e0011.	0.5	218
42	LOCAL AND LONG-RANGE SIGNALING PATHWAYS REGULATING PLANT RESPONSES TO NITRATE. Annual Review of Plant Biology, 2002, 53, 203-224.	8.6	462
43	The role of long-distance signalling in plant responses to nitrate and other nutrients. Journal of Experimental Botany, 2002, 53, 39-43.	2.4	135
44	The nutritional control of root development. , 2002, , 51-68.		44
45	The role of long-distance signalling in plant responses to nitrate and other nutrients. Journal of Experimental Botany, 2002, 53, 39-43.	2.4	99
46	The nutritional control of root development. Plant and Soil, 2001, 232, 51-68.	1.8	433
47	Nitrate Uptake and Its Regulation. , 2001, , 1-36.		33
48	The hormonal regulation of axillary bud growth in Arabidopsis. Plant Journal, 2000, 24, 159-169.	2.8	253
49	A High Affinity Fungal Nitrate Carrier with Two Transport Mechanisms. Journal of Biological Chemistry, 2000, 275, 39894-39899.	1.6	57
50	Regulation of Arabidopsis root development by nitrate availability. Journal of Experimental Botany, 2000, 51, 51-59.	2.4	223
51	Nitrate transporters in plants: structure, function and regulation. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1465, 219-235.	1.4	493
52	Regulation of Arabidopsis root development by nitrate availability. Journal of Experimental Botany, 2000, 51, 51-59.	2.4	210
53	Dual pathways for regulation of root branching by nitrate. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 6529-6534.	3.3	614
54	Nitrate and Ammonium Nutrition of Plants: Physiological and Molecular Perspectives. Advances in Botanical Research, 1999, 30, 1-90.	0.5	270

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55	Regulation of GmNRT2 expression and nitrate transport activity in roots of soybean (<i>Glycine max</i>). <i>Planta</i> , 1998, 206, 44-52.	1.6	86
56	...response: Nitrate and root branching. <i>Trends in Plant Science</i> , 1998, 3, 204-205.	4.3	42
57	An <i>Arabidopsis</i> MADS Box Gene That Controls Nutrient-Induced Changes in Root Architecture. <i>Science</i> , 1998, 279, 407-409.	6.0	1,134
58	Cloning and characterisation of a novel P-glycoprotein homologue from barley. <i>Gene</i> , 1997, 199, 195-202.	1.0	36
59	Spatially distinct expression of two new cytochrome P450s in leaves of <i>Nepeta racemosa</i> : identification of a trichome-specific isoform. <i>Plant Molecular Biology</i> , 1997, 33, 875-885.	2.0	16
60	PCR-identification of a <i>Nicotiana plumbaginifolia</i> cDNA homologous to the high-affinity nitrate transporters of the <i>crnA</i> family. <i>Plant Molecular Biology</i> , 1997, 34, 265-274.	2.0	129
61	Regulation of the expression of ferredoxin-glutamate synthase in barley. <i>Planta</i> , 1997, 203, 517-525.	1.6	46
62	Molecular cloning of higher plant homologues of the high-affinity nitrate transporters of <i>Chlamydomonas reinhardtii</i> and <i>Aspergillus nidulans</i> . <i>Gene</i> , 1996, 175, 223-231.	1.0	184
63	Glutamine synthetase polypeptides in the roots of 55 legume species in relation to their climatic origin and the partitioning of nitrate assimilation. <i>Plant, Cell and Environment</i> , 1996, 19, 848-858.	2.8	44
64	The Nir1 locus in barley is tightly linked to the nitrite reductase apoprotein gene Nii. <i>Molecular Genetics and Genomics</i> , 1995, 247, 579-582.	2.4	6
65	The use of mutants and transgenic plants to study amino acid metabolism. <i>Plant, Cell and Environment</i> , 1994, 17, 541-556.	2.8	79
66	AT-Rich Elements (ATREs) in the Promoter Regions of Nodulin and Other Higher Plant Genes: a Novel Class of Cis-Acting Regulatory Element?. <i>Results and Problems in Cell Differentiation</i> , 1994, 20, 87-103.	0.2	12
67	Plant cytochrome <i>P</i> -450 and agricultural biotechnology. <i>Biochemical Society Transactions</i> , 1993, 21, 1068-1073.	1.6	5
68	Functional expression of a plant plasma membrane transporter in <i>Xenopus</i> oocytes. <i>FEBS Letters</i> , 1992, 302, 166-168.	1.3	49
69	Functional analysis of the promoter region of a nodule-enhanced glutamine synthetase gene from <i>Phaseolus vulgaris</i> L.. <i>Plant Molecular Biology</i> , 1992, 19, 837-846.	2.0	16
70	Molecular analysis of barley mutants deficient in chloroplast glutamine synthetase. <i>Plant Molecular Biology</i> , 1990, 14, 297-311.	2.0	39
71	The combined use of immunoassay and a DNA diagnostic technique to identify insecticide-resistant genotypes in the peach-potato aphid, <i>Myzus persicae</i> (Sulz.). <i>Pesticide Biochemistry and Physiology</i> , 1989, 34, 174-178.	1.6	16
72	Changes in DNA methylation are associated with loss of insecticide resistance in the peach-potato aphid <i>Myzus persicae</i> (Sulz.). <i>FEBS Letters</i> , 1989, 243, 323-327.	1.3	91

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73	Efficient transformation of <i>Agrobacterium</i> spp. by high voltage electroporation. <i>Nucleic Acids Research</i> , 1989, 17, 8385-8385.	6.5	288
74	Antigenic similarities between ferredoxin-dependent nitrite reductase and glutamate synthase from <i>Chlamydomonas reinhardtii</i> . <i>BBA - Proteins and Proteomics</i> , 1988, 957, 152-157.	2.1	20
75	5' flanking sequence of a glutamine synthetase gene specifying the $\hat{\rho}$ subunit of the cytosolic enzyme from <i>Phaseolus vulgaris</i> L.. <i>Nucleic Acids Research</i> , 1988, 16, 11367-11367.	6.5	6
76	Primary structure and differential expression of glutamine synthetase genes in nodules, roots and leaves of <i>Phaseolus vulgaris</i> . <i>EMBO Journal</i> , 1986, 5, 1429-1435.	3.5	137
77	Polymorphism at the Hor 1 locus of barley (<i>Hordeum vulgare</i> L.). <i>Biochemical Genetics</i> , 1985, 23, 391-404.	0.8	42
78	Short tandem repeats shared by B- and C-hordein cDNAs suggest a common evolutionary origin for two groups of cereal storage protein genes. <i>EMBO Journal</i> , 1985, 4, 9-15.	3.5	99
79	Nucleotide sequence of a B1 hordein gene and the identification of possible upstream regulatory elements in endosperm storage protein genes from barley, wheat and maize. <i>Nucleic Acids Research</i> , 1985, 13, 7327-7339.	6.5	263
80	Molecular evolution of the seed storage proteins of barley, rye and wheat. <i>Journal of Molecular Biology</i> , 1985, 183, 499-502.	2.0	242
81	Molecular analysis of the effects of the lys 3a gene on the expression of Hor loci in developing endosperms of barley (<i>Hordeum vulgare</i> L.). <i>Biochemical Genetics</i> , 1984, 22, 231-255.	0.8	56
82	Nutritional control of storage-protein synthesis in developing grain of barley (<i>Hordeum vulgare</i> L.). <i>Planta</i> , 1983, 159, 366-372.	1.6	32
83	Sub-families of hordein mRNA encoded at the Hor 2 locus of barley. <i>Molecular Genetics and Genomics</i> , 1983, 191, 194-200.	2.4	44
84	Molecular analysis of a mutation conferring the high-lysine phenotype on the grain of barley (<i>hordeum vulgare</i>). <i>Cell</i> , 1983, 34, 161-167.	13.5	95
85	Identification of barley and wheat cDNA clones related to the high-Mr polypeptides of wheat gluten. <i>FEBS Letters</i> , 1983, 162, 360-366.	1.3	38
86	Molecular cloning and analysis of cDNA sequences derived from polyA+RNA from barley endosperm: identification of B hordein related clones. <i>Nucleic Acids Research</i> , 1981, 9, 6689-6708.	6.5	103
87	Nuclear and cytoplasmic genes controlling synthesis of variant mitochondrial polypeptides in male-sterile maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1980, 77, 418-422.	3.3	188
88	In Vitro Study of Mitochondrial Protein Synthesis during Mitochondrial Biogenesis in Excised Plant Storage Tissue. <i>Plant Physiology</i> , 1979, 63, 67-73.	2.3	24
89	Variation in mitochondrial translation products associated with male-sterile cytoplasm in maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1978, 75, 3841-3845.	3.3	196