Brian G Forde

List of Publications by Year
in descending order

#	Article	IF	Citations
1	An Arabidopsis MADS Box Gene That Controls Nutrient-Induced Changes in Root Architecture. Science, 1998, 279, 407-409.	12.6	1,134
2	Glutamate in plants: metabolism, regulation, and signalling. Journal of Experimental Botany, 2007, 58, 2339-2358.	4.8	844
3	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.	7.1	614
4	A unified nomenclature of NITRATE TRANSPORTER 1/PEPTIDE TRANSPORTER family members in plants. Trends in Plant Science, 2014, 19, 5-9.	8.8	581
5	Nitrate transporters in plants: structure, function and regulation. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1465, 219-235.	2.6	493
6	The Arabidopsis NRT1.1 transporter participates in the signaling pathway triggering root colonization of nitrate-rich patches. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19206-19211.	7.1	481
7	LOCAL ANDLONG-RANGESIGNALINGPATHWAYSREGULATINGPLANTRESPONSES TONITRATE. Annual Review of Plant Biology, 2002, 53, 203-224.	18.7	462
8	The nutritional control of root development. Plant and Soil, 2001, 232, 51-68.	3.7	433
9	Nitrogen Regulation of Root Branching. Annals of Botany, 2006, 97, 875-881.	2.9	296
10	Efficient transformation ofAgrobacteriumspp. by high voltage electroporation. Nucleic Acids Research, 1989, 17, 8385-8385.	14.5	288
11	Transcriptome analysis of root transporters reveals participation of multiple gene families in the response to cation stress. Plant Journal, 2003, 35, 675-692.	5.7	286
12	Nitrate and Ammonium Nutrition of Plants: Physiological and Molecular Perspectives. Advances in Botanical Research, 1999, 30, 1-90.	1.1	270
13	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. Nucleic Acids Research, 1985, 13, 7327-7339.	14.5	263
14	The hormonal regulation of axillary bud growth in Arabidopsis. Plant Journal, 2000, 24, 159-169.	5.7	253
15	Molecular evolution of the seed storage proteins of barley, rye and wheat. Journal of Molecular Biology, 1985, 183, 499-502.	4.2	242
16	Evidence that l -Glutamate Can Act as an Exogenous Signal to Modulate Root Growth and Branching in Arabidopsis thaliana. Plant and Cell Physiology, 2006, 47, 1045-1057.	3.1	228
17	Regulation of Arabidopsis root development by nitrate availability. Journal of Experimental Botany, 2000, 51, 51-59.	4.8	223
18	Molecular and Developmental Biology of Inorganic Nitrogen Nutrition. The Arabidopsis Book, 2002, 1, e0011.	0.5	218

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19	Regulation of Arabidopsis root development by nitrate availability. Journal of Experimental Botany, 2000, 51, 51-59.	4.8	210
20	Nitrogen signalling pathways shaping root system architecture: an update. Current Opinion in Plant Biology, 2014, 21, 30-36.	7.1	202
21	Nitrate signalling mediated by the NRT1.1 nitrate transporter antagonises <scp>l</scp>â€glutamateâ€induced changes in root architecture. Plant Journal, 2008, 54, 820-828.	5.7	200
22	Variation in mitochondrial translation products associated with male-sterile cytoplasms in maize. Proceedings of the National Academy of Sciences of the United States of America, 1978, 75, 3841-3845.	7.1	196
23	Nuclear and cytoplasmic genes controlling synthesis of variant mitochondrial polypeptides in male-sterile maize. Proceedings of the National Academy of Sciences of the United States of America, 1980, 77, 418-422.	7.1	188
24	Molecular cloning of higher plant homologues of the high-affinity nitrate transporters of Chlamydomonas reinhardtii and Aspergillus nidulans. Gene, 1996, 175, 223-231.	2.2	184
25	Gene expression, cellular localisation and function of glutamine synthetase isozymes in wheat (Triticum aestivum L.). Plant Molecular Biology, 2008, 67, 89-105.	3.9	172
26	Nutritional regulation of ANR1 and other root-expressed MADS-box genes in Arabidopsis thaliana. Planta, 2005, 222, 730-742.	3.2	148
27	Primary structure and differential expression of glutamine synthetase genes in nodules, roots and leaves of <i>Phaseolus vulgaris</i>. EMBO Journal, 1986, 5, 1429-1435.	7.8	137
28	The role of longâ€distance signalling in plant responses to nitrate and other nutrients. Journal of Experimental Botany, 2002, 53, 39-43.	4.8	135
29	Glutamate receptor-like channels in plants: a role as amino acid sensors in plant defence?. F1000prime Reports, 2014, 6, 37.	5.9	134
30	Nitrate and glutamate as environmental cues for behavioural responses in plant roots. Plant, Cell and Environment, 2009, 32, 682-693.	5.7	130
31	PCR-identification of a Nicotiana plumbaginifolia cDNA homologous to the high-affinity nitrate transporters of the crnA family. Plant Molecular Biology, 1997, 34, 265-274.	3.9	129
32	Glutamate signalling in roots. Journal of Experimental Botany, 2014, 65, 779-787.	4.8	114
33	Molecular cloning and analysis of cDNA sequences derived from polyA+RNA from barley endosperm: identification of B hordein related clones. Nucleic Acids Research, 1981, 9, 6689-6708.	14.5	103
34	Overexpressing the ANR1 MADS-Box Gene in Transgenic Plants Provides New Insights into its Role in the Nitrate Regulation of Root Development. Plant and Cell Physiology, 2012, 53, 1003-1016.	3.1	103
35	Short tandem repeats shared by B- and C-hordein cDNAs suggest a common evolutionary origin for two groups of cereal storage protein genes. EMBO Journal, 1985, 4, 9-15.	7.8	99
36	The role of long-distance signalling in plant responses to nitrate and other nutrients. Journal of Experimental Botany, 2002, 53, 39-43.	4.8	99

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37	Quantitative Analysis of Lateral Root Development: Pitfalls and How to Avoid Them. Plant Cell, 2012, 24, 4-14.	6.6	98
38	The Biphasic Root Growth Response to Abscisic Acid in Arabidopsis Involves Interaction with Ethylene and Auxin Signalling Pathways. Frontiers in Plant Science, 2017, 8, 1493.	3.6	98
39	Molecular analysis of a mutation conferring the high-lysine phenotype on the grain of barley (hordeum vulgare). Cell, 1983, 34, 161-167.	28.9	95
40	How do plants sense their nitrogen status?. Journal of Experimental Botany, 2017, 68, 2531-2539.	4.8	92
41	Changes in DNA methylation are associated with loss of insecticide resistance in the peach-potato aphid Myzus persicae (Sulz.). FEBS Letters, 1989, 243, 323-327.	2.8	91
42	Regulation of GmNRT2 expression and nitrate transport activity in roots of soybean (Glycine max). Planta, 1998, 206, 44-52.	3.2	86
43	Signaling mechanisms integrating root and shoot responses to changes in the nitrogen supply. Photosynthesis Research, 2005, 83, 239-250.	2.9	83
44	MADS-box Transcription Factor OsMADS25 Regulates Root Development through Affection of Nitrate Accumulation in Rice. PLoS ONE, 2015, 10, e0135196.	2.5	81
45	The use of mutants and transgenic plants to study amino acid metabolism. Plant, Cell and Environment, 1994, 17, 541-556.	5.7	79
46	Is it good noise? The role of developmental instability in the shaping of a root system. Journal of Experimental Botany, 2009, 60, 3989-4002.	4.8	78
47	Glutamate signalling via a <scp>MEKK</scp>1 kinaseâ€dependent pathway induces changes in <scp>A</scp>rabidopsis root architecture. Plant Journal, 2013, 75, 1-10.	5.7	65
48	A High Affinity Fungal Nitrate Carrier with Two Transport Mechanisms. Journal of Biological Chemistry, 2000, 275, 39894-39899.	3.4	57
49	Molecular analysis of the effects of the lys 3a gene on the expression of Hor loci in developing endosperms of barley (Hordeum vulgare L.). Biochemical Genetics, 1984, 22, 231-255.	1.7	56
50	Nitrate and glutamate sensing by plant roots. Biochemical Society Transactions, 2005, 33, 283-286.	3.4	56
51	Functional expression of a plant plasma membrane transporter inXenopusoocytes. FEBS Letters, 1992, 302, 166-168.	2.8	49
52	Regulation of the expression of ferredoxin-glutamate synthase in barley. Planta, 1997, 203, 517-525.	3.2	46
53	Sub-families of hordein mRNA encoded at the Hor 2 locus of barley. Molecular Genetics and Genomics, 1983, 191, 194-200.	2.4	44
54	Glutamine synthetase polypeptides in the roots of 55 legume species in relation to their climatic origin and the partitioning of nitrate assimilation. Plant, Cell and Environment, 1996, 19, 848-858.	5.7	44

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55	The nutritional control of root development. , 2002, , 51-68.		44
56	Polymorphism at the Hor 1 locus of barley (Hordeum vulgare L.). Biochemical Genetics, 1985, 23, 391-404.	1.7	42
57	...response: Nitrate and root branching. Trends in Plant Science, 1998, 3, 204-205.	8.8	42
58	Molecular analysis of barley mutants deficient in chloroplast glutamine synthetase. Plant Molecular Biology, 1990, 14, 297-311.	3.9	39
59	Shootward and rootward: peak terminology for plant polarity. Trends in Plant Science, 2010, 15, 593-594.	8.8	39
60	Identification of barley and wheat cDNA clones related to the high-Mrpolypeptides of wheat gluten. FEBS Letters, 1983, 162, 360-366.	2.8	38
61	Cloning and characterisation of a novel P-glycoprotein homologue from barley. Gene, 1997, 199, 195-202.	2.2	36
62	Nitrate Uptake and Its Regulation. , 2001, , 1-36.		33
63	Nutritional control of storage-protein synthesis in developing grain of barley (Hordeum vulgare L.). Planta, 1983, 159, 366-372.	3.2	32
64	Plant Methods: putting the spotlight on technological innovation in the plant sciences. Plant Methods, 2005, 1, 1.	4.3	31
65	What is apical and what is basal in plant root development?. Trends in Plant Science, 2005, 10, 409-411.	8.8	30
66	L-Glutamate as a Novel Modifier of Root Growth and Branching. Plant Signaling and Behavior, 2007, 2, 284-286.	2.4	26
67	Plastic and genetic responses of a common sedge to warming have contrasting effects on carbon cycle processes. Ecology Letters, 2019, 22, 159-169.	6.4	25
68	In Vitro Study of Mitochondrial Protein Synthesis during Mitochondrial Biogenesis in Excised Plant Storage Tissue. Plant Physiology, 1979, 63, 67-73.	4.8	24
69	Antigenic similarities between ferredoxin-dependent nitrite reductase and glutamate synthase fromChlamydomonas reinhardtii. BBA - Proteins and Proteomics, 1988, 957, 152-157.	2.1	20
70	The Microphenotron: a robotic miniaturized plant phenotyping platform with diverse applications in chemical biology. Plant Methods, 2017, 13, 10.	4.3	18
71	Involvement of a truncated MADS-box transcription factor ZmTMM1 in root nitrate foraging. Journal of Experimental Botany, 2020, 71, 4547-4561.	4.8	18
72	The combined use of immunoassay and a DNA diagnostic technique to identify insecticide-resistant genotypes in the peach-potato aphid, Myzus persicae (Sulz.). Pesticide Biochemistry and Physiology, 1989, 34, 174-178.	3.6	16

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73	Functional analysis of the promoter region of a nodule-enhanced glutamine synthetase gene from Phaseolus vulgaris L.. Plant Molecular Biology, 1992, 19, 837-846.	3.9	16
74	Spatially distinct expression of two new cytochrome P450s in leaves of Nepeta racemosa: identification of a trichome-specific isoform. Plant Molecular Biology, 1997, 33, 875-885.	3.9	16
75	Expression and transport characterisation of the wheat low-affinity cation transporter (LCT1) in the methylotrophic yeast Pichia pastoris. Biochemical and Biophysical Research Communications, 2006, 344, 807-813.	2.1	15
76	AutoRoot: open-source software employing a novel image analysis approach to support fully-automated plant phenotyping. Plant Methods, 2017, 13, 12.	4.3	13
77	Nitrate assimilation in the forage legume Lotus japonicus L.. Planta, 2006, 223, 821-834.	3.2	12
78	A Comparison Between Northern Blotting and Quantitative Real-Time PCR as a Means of Detecting the Nutritional Regulation of Genes Expressed in Roots of Arabidopsis thaliana. Agricultural Sciences in China, 2011, 10, 335-342.	0.6	12
79	AT-Rich Elements (ATREs) in the Promoter Regions of Nodulin and Other Higher Plant Genes: a Novel Class of Cis-Acting Regulatory Element?. Results and Problems in Cell Differentiation, 1994, 20, 87-103.	0.7	12
80	Stomatal and growth responses to hydraulic and chemical changes induced by progressive soil drying. Journal of Experimental Botany, 2017, 68, 5883-5894.	4.8	8
81	Focus on Plant Nutrition. Plant Physiology, 2004, 136, 2437-2437.	4.8	7
82	5â€²-flanking sequence of a glutamine synthetase gene specifying the Î² subunit of the cytosolic enzyme fromPhaseolus vulgarisL.. Nucleic Acids Research, 1988, 16, 11367-11367.	14.5	6
83	The Nir1 locus in barley is tightly linked to the nitrite reductase apoprotein gene Nii. Molecular Genetics and Genomics, 1995, 247, 579-582.	2.4	6
84	Plant cytochrome <i>P</i>-450 and agricultural biotechnology. Biochemical Society Transactions, 1993, 21, 1068-1073.	3.4	5
85	Nitrogen Use Efficiency in Plants. Journal of Experimental Botany, 2012, 63, 4993-4993.	4.8	5
86	QTL analysis of the developmental response to L-glutamate in Arabidopsis roots and its genotype-by-environment interactions. Journal of Experimental Botany, 2017, 68, 2919-2931.	4.8	4
87	Novel Micro-Phenotyping Approach to Chemical Genetic Screening for Increased Plant Tolerance to Abiotic Stress. Methods in Molecular Biology, 2018, 1795, 9-25.	0.9	4
88	Plant Methods moves to fund open-access publishing. Plant Methods, 2006, 2, 6.	4.3	0
89	Plant Methods reviewer acknowledgement 2014. Plant Methods, 2015, 11, .	4.3	0