Malcolm J Bennett

List of Publications by Year
in descending order

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303 papers	38,157 citations	2203 99 h-index	3563 181 g-index
321 all docs	321 docs citations	321 times ranked	25144 citing authors

#	Article	IF	Citations
1	Regulation of phyllotaxis by polar auxin transport. Nature, 2003, 426, 255-260.	13.7	1,361
2	Arabidopsis AUX1 Gene: A Permease-Like Regulator of Root Gravitropism. Science, 1996, 273, 948-950.	6.0	955
3	Auxin Transport Promotes Arabidopsis Lateral Root Initiation. Plant Cell, 2001, 13, 843-852.	3.1	930
4	AtPIN2 defines a locus of Arabidopsis for root gravitropism control. EMBO Journal, 1998, 17, 6903-6911.	3.5	840
5	The auxin influx carrier LAX3 promotes lateral root emergence. Nature Cell Biology, 2008, 10, 946-954.	4.6	715
6	Arabidopsis lateral root development: an emerging story. Trends in Plant Science, 2009, 14, 399-408.	4.3	681
7	A novel sensor to map auxin response and distribution at high spatio-temporal resolution. Nature, 2012, 482, 103-106.	13.7	664
8	Dissecting Arabidopsis lateral root development. Trends in Plant Science, 2003, 8, 165-171.	4.3	618
9	Ecology of zoonoses: natural and unnatural histories. Lancet, The, 2012, 380, 1936-1945.	6.3	590
10	Localization of the auxin permease AUX1 suggests two functionally distinct hormone transport pathways operate in the Arabidopsis root apex. Genes and Development, 2001, 15, 2648-2653.	2.7	571
11	AUX1 regulates root gravitropism in Arabidopsis by facilitating auxin uptake within root apical tissues. EMBO Journal, 1999, 18, 2066-2073.	3.5	541
12	Auxin-dependent regulation of lateral root positioning in the basal meristem of Arabidopsis. Development (Cambridge), 2007, 134, 681-690.	1.2	540
13	Ethylene Upregulates Auxin Biosynthesis inArabidopsisSeedlings to Enhance Inhibition of Root Cell Elongation. Plant Cell, 2007, 19, 2186-2196.	3.1	536
14	Lateral root development in Arabidopsis: fifty shades of auxin. Trends in Plant Science, 2013, 18, 450-458.	4.3	536
15	The auxin signalling network translates dynamic input into robust patterning at the shoot apex. Molecular Systems Biology, 2011, 7, 508.	3.2	520
16	Root gravitropism requires lateral root cap and epidermal cells for transport and response to a mobile auxin signal. Nature Cell Biology, 2005, 7, 1057-1065.	4.6	514
17	Cytokinins Act Directly on Lateral Root Founder Cells to Inhibit Root Initiation. Plant Cell, 2008, 19, 3889-3900.	3.1	498
18	AUX1 Promotes Lateral Root Formation by Facilitating Indole-3-Acetic Acid Distribution between Sink and Source Tissues in the Arabidopsis Seedling. Plant Cell, 2002, 14, 589-597.	3.1	473

#	Article	IF	Citations
19	Shoot-derived auxin is essential for early lateral root emergence inArabidopsisseedlings. Plant Journal, 2002, 29, 325-332.	2.8	463
20	A Novel Aux/IAA28 Signaling Cascade Activates GATA23-Dependent Specification of Lateral Root Founder Cell Identity. Current Biology, 2010, 20, 1697-1706.	1.8	431
21	Plant Phenomics, From Sensors to Knowledge. Current Biology, 2017, 27, R770-R783.	1.8	416
22	Complex regulation of the TIR1/AFB family of auxin receptors. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22540-22545.	3.3	403
23	Changes in Gene Expression in Arabidopsis Shoots during Phosphate Starvation and the Potential for Developing Smart Plants. Plant Physiology, 2003, 132, 578-596.	2.3	393
24	A clarification of transmission terms in host-microparasite models: numbers, densities and areas. Epidemiology and Infection, 2002, 129, 147-153.	1.0	388
25	AUX/LAX Genes Encode a Family of Auxin Influx Transporters That Perform Distinct Functions during Arabidopsis Development. Plant Cell, 2012, 24, 2874-2885.	3.1	373
26	Endodermal ABA Signaling Promotes Lateral Root Quiescence during Salt Stress inArabidopsisSeedlings Â. Plant Cell, 2013, 25, 324-341.	3.1	367
27	Gibberellin Signaling in the Endodermis Controls Arabidopsis Root Meristem Size. Current Biology, 2009, 19, 1194-1199.	1.8	360
28	Developing X-ray Computed Tomography to non-invasively image 3-D root systems architecture in soil. Plant and Soil, 2012, 352, 1-22.	1.8	347
29	Colocalization of fluorescent markers in confocal microscope images of plant cells. Nature Protocols, 2008, 3, 619-628.	5.5	333
30	Auxin regulates aquaporin function to facilitate lateral root emergence. Nature Cell Biology, 2012, 14, 991-998.	4.6	323
31	Plant roots use a patterning mechanism to position lateral root branches toward available water. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9319-9324.	3.3	317
32	Structure-Function Analysis of the Presumptive Arabidopsis Auxin Permease AUX1[W]. Plant Cell, 2004, 16, 3069-3083.	3.1	308
33	Root gravitropism is regulated by a transient lateral auxin gradient controlled by a tipping-point mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4668-4673.	3.3	304
34	Brassinosteroid perception in the epidermis controls root meristem size. Development (Cambridge), 2011, 138, 839-848.	1.2	302
35	The SUR2 gene of Arabidopsis thaliana encodes the cytochrome P450 CYP83B1, a modulator of auxin homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 14819-14824.	3.3	284
36	Root growth in Arabidopsis requires gibberellin/DELLA signalling in the endodermis. Nature Cell Biology, 2008, 10, 625-628.	4.6	273

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37	Bimodular auxin response controls organogenesis in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2705-2710.	3.3	271
38	Divergent Evolution of Duplicate Genes Leads to Genetic Incompatibilities Within A. thaliana. Science, 2009, 323, 623-626.	6.0	264
39	Auxin influx carriers stabilize phyllotactic patterning. Genes and Development, 2008, 22, 810-823.	2.7	248
40	Uncovering the hidden half of plants using new advances in root phenotyping. Current Opinion in Biotechnology, 2019, 55, 1-8.	3.3	248
41	A secreted peptide acts on BIN2-mediated phosphorylation of ARFs to potentiate auxin response during lateral root development. Nature Cell Biology, 2014, 16, 66-76.	4.6	245
42	PYRABACTIN RESISTANCE1-LIKE8 Plays an Important Role for the Regulation of Abscisic Acid Signaling in Root Â Â Â. Plant Physiology, 2013, 161, 931-941.	2.3	244
43	Subcellular Trafficking of the Arabidopsis Auxin Influx Carrier AUX1 Uses a Novel Pathway Distinct from PIN1. Plant Cell, 2006, 18, 3171-3181.	3.1	239
44	Lateral root morphogenesis is dependent on the mechanical properties of the overlaying tissues. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5229-5234.	3.3	233
45	Branching Out in Roots: Uncovering Form, Function, and Regulation. Plant Physiology, 2014, 166, 538-550.	2.3	231
46	Human cowpox 1969â€“93: a review based on 54 cases. British Journal of Dermatology, 1994, 131, 598-607.	1.4	226
47	The auxin influx carriers AUX1 and LAX3 are involved in auxin-ethylene interactions during apical hook development inArabidopsis thalianaseedlings. Development (Cambridge), 2010, 137, 597-606.	1.2	226
48	Polar auxin transport in the wood-forming tissues of hybrid aspen is under simultaneous control of developmental and environmental signals. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10096-10101.	3.3	225
49	RootNav: Navigating Images of Complex Root Architectures Â Â. Plant Physiology, 2013, 162, 1802-1814.	2.3	218
50	RooTrak: Automated Recovery of Three-Dimensional Plant Root Architecture in Soil from X-Ray Microcomputed Tomography Images Using Visual Tracking Â. Plant Physiology, 2012, 158, 561-569.	2.3	215
51	Floral organ abscission peptide IDA and its HAE/HSL2 receptors control cell separation during lateral root emergence. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5235-5240.	3.3	213
52	Auxin transport through non-hair cells sustains root-hair development. Nature Cell Biology, 2009, 11, 78-84.	4.6	212
53	Auxin transport: a field in flux. Trends in Plant Science, 2006, 11, 382-386.	4.3	211
54	Antibiotic resistance found in wild rodents. Nature, 1999, 401, 233-234.	13.7	207

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55	The holistic rhizosphere: integrating zones, processes, and semantics in the soil influenced by roots. Journal of Experimental Botany, 2016, 67, 3629-3643.	2.4	204
56	Cowpox: reservoir hosts and geographic range. Epidemiology and Infection, 1999, 122, 455-460.	1.0	203
57	Epithiospecifier Protein from Broccoli (Brassica oleraceaL. ssp.italica) Inhibits Formation of the Anticancer Agent Sulforaphane. Journal of Agricultural and Food Chemistry, 2006, 54, 2069-2076.	2.4	201
58	Phenotyping pipeline reveals major seedling root growth QTL in hexaploid wheat. Journal of Experimental Botany, 2015, 66, 2283-2292.	2.4	196
59	High-Throughput Quantification of Root Growth Using a Novel Image-Analysis Tool Â Â. Plant Physiology, 2009, 150, 1784-1795.	2.3	190
60	Systems Analysis of Auxin Transport in the Arabidopsis Root Apex Â. Plant Cell, 2014, 26, 862-875.	3.1	190
61	Root hydrotropism is controlled via a cortex-specific growth mechanism. Nature Plants, 2017, 3, 17057.	4.7	183
62	Root branching toward water involves posttranslational modification of transcription factor ARF7. Science, 2018, 362, 1407-1410.	6.0	179
63	Seasonal Dynamics ofAnaplasmaphagocytophilain a Rodent-Tick (Ixodes) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	2.0	177
64	Auxin cross-talk: integration of signalling pathways to control plant development. Plant Molecular Biology, 2002, 49, 409-424.	2.0	170
65	Lateral root emergence: a difficult birth. Journal of Experimental Botany, 2009, 60, 3637-3643.	2.4	167
66	AXR4 Is Required for Localization of the Auxin Influx Facilitator AUX1. Science, 2006, 312, 1218-1220.	6.0	165
67	Novel auxin transport inhibitors phenocopy the auxin influx carrier mutation aux1. Plant Journal, 2001, 25, 399-406.	2.8	163
68	SHORT-ROOT Regulates Primary, Lateral, and Adventitious Root Development in Arabidopsis Â Â Â. Plant Physiology, 2011, 155, 384-398.	2.3	163
69	Dioxygenase-encoding AtDAO1 gene controls IAA oxidation and homeostasis in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11016-11021.	3.3	162
70	Shaping 3D Root System Architecture. Current Biology, 2017, 27, R919-R930.	1.8	162
71	AUX1-mediated root hair auxin influx governs SCFTIR1/AFB-type Ca2+ signaling. Nature Communications, 2018, 9, 1174.	5.8	160
72	O<scp>pen</scp>S<scp>im</scp>R<scp>oot</scp>: widening the scope and application of root architectural models. New Phytologist, 2017, 215, 1274-1286.	3.5	158

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73	â€˜Disperse abroad in the landâ€™: the role of wildlife in the dissemination of antimicrobial resistance. Biology Letters, 2016, 12, 20160137.	1.0	156
74	RBOH-mediated ROS production facilitates lateral root emergence in Arabidopsis. Development (Cambridge), 2016, 143, 3328-39.	1.2	152
75	Cytokinin Induces Cell Division in the Quiescent Center of the Arabidopsis Root Apical Meristem. Current Biology, 2013, 23, 1979-1989.	1.8	151
76	An extended root phenotype: the rhizosphere, its formation and impacts on plant fitness. Plant Journal, 2020, 103, 951-964.	2.8	151
77	Auxin reflux between the endodermis and pericycle promotes lateral root initiation. EMBO Journal, 2012, 32, 149-158.	3.5	148
78	A mechanistic framework for auxin dependent Arabidopsis root hair elongation to low external phosphate. Nature Communications, 2018, 9, 1409.	5.8	146
79	Plant roots sense soil compaction through restricted ethylene diffusion. Science, 2021, 371, 276-280.	6.0	145
80	Post-embryonic root organogenesis in cereals: branching out from model plants. Trends in Plant Science, 2013, 18, 459-467.	4.3	142
81	The Novel Cyst Nematode Effector Protein 19C07 Interacts with the Arabidopsis Auxin Influx Transporter LAX3 to Control Feeding Site Development Â Â. Plant Physiology, 2011, 155, 866-880.	2.3	141
82	New insights into root gravitropic signalling. Journal of Experimental Botany, 2015, 66, 2155-2165.	2.4	141
83	Expression Studies on AUX1-like Genes in Medicago truncatula Suggest That Auxin Is Required at Two Steps in Early Nodule Development. Molecular Plant-Microbe Interactions, 2001, 14, 267-277.	1.4	140
84	Unraveling the Evolution of Auxin Signaling Â Â. Plant Physiology, 2011, 155, 209-221.	2.3	140
85	Small Ubiquitin-like Modifier Protein SUMO Enables Plants to Control Growth Independently of the Phytohormone Gibberellin. Developmental Cell, 2014, 28, 102-110.	3.1	139
86	Cell Polarity Signaling in Arabidopsis Involves a BFA-Sensitive Auxin Influx Pathway. Current Biology, 2002, 12, 329-334.	1.8	131
87	Conserved Arabidopsis ECHIDNA protein mediates trans â€“Golgi-network trafficking and cell elongation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8048-8053.	3.3	130
88	A fluorescent hormone biosensor reveals the dynamics of jasmonate signalling in plants. Nature Communications, 2015, 6, 6043.	5.8	130
89	The case for morphogens in plants. Nature Cell Biology, 2003, 5, 939-943.	4.6	128
90	GranulocyticEhrlichiainfection in Ixodid ticks and mammals in woodlands and uplands of the U.K.. Medical and Veterinary Entomology, 1998, 12, 423-429.	0.7	125

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91	Auxin cross-talk: integration of signalling pathways to control plant development. , 2002, 49, 411-426.		125
92	Analyzing Lateral Root Development: How to Move Forward. Plant Cell, 2012, 24, 15-20.	3.1	125
93	Flea-borneBartonella grahamiiandBartonella tayloriiin Bank Voles. Emerging Infectious Diseases, 2004, 10, 684-687.	2.0	124
94	Poor condition and infection: a vicious circle in natural populations. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 1753-1759.	1.2	120
95	Mathematical modeling elucidates the role of transcriptional feedback in gibberellin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7571-7576.	3.3	119
96	The circadian clock rephases during lateral root organ initiation in Arabidopsis thaliana. Nature Communications, 2015, 6, 7641.	5.8	119
97	Dynamic regulation of auxin oxidase and conjugating enzymes AtDAO1 and GH3 modulates auxin homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11022-11027.	3.3	119
98	Serological evidence for the reservoir hosts of cowpox virus in British wildlife. Epidemiology and Infection, 1995, 115, 185-191.	1.0	117
99	Genetic analysis of the Arabidopsis TIR1/AFB auxin receptors reveals both overlapping and specialized functions. ELife, 2020, 9, .	2.8	115
100	The Auxin-Regulated CrRLK1L Kinase ERULUS Controls Cell Wall Composition during Root Hair Tip Growth. Current Biology, 2018, 28, 722-732.e6.	1.8	113
101	Folate biofortification in food plants. Trends in Plant Science, 2008, 13, 28-35.	4.3	112
102	Lateral root emergence in Arabidopsis is dependent on transcription factor LBD29 regulating auxin influx carrier LAX3. Development (Cambridge), 2016, 143, 3340-9.	1.2	111
103	A mini foxtail millet with an Arabidopsis-like life cycle as a C4 model system. Nature Plants, 2020, 6, 1167-1178.	4.7	111
104	Rice auxin influx carrier OsAUX1 facilitates root hair elongation in response to low external phosphate. Nature Communications, 2018, 9, 1408.	5.8	110
105	Lateral Root Formation in Arabidopsis: A Well-Ordered LRexit. Trends in Plant Science, 2019, 24, 826-839.	4.3	109
106	Anthropogenic environmental drivers of antimicrobial resistance in wildlife. Science of the Total Environment, 2019, 649, 12-20.	3.9	108
107	Inference of the Arabidopsis Lateral Root Gene Regulatory Network Suggests a Bifurcation Mechanism That Defines Primordia Flanking and Central Zones. Plant Cell, 2015, 27, 1368-1388.	3.1	105
108	Parasite interactions in natural populations: insights from longitudinal data. Parasitology, 2008, 135, 767-781.	0.7	104

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109	Sequential induction of auxin efflux and influx carriers regulates lateral root emergence. Molecular Systems Biology, 2013, 9, 699.	3.2	104
110	Quick on the Uptake: Characterization of a Family of Plant Auxin Influx Carriers. Journal of Plant Growth Regulation, 2001, 20, 217-225.	2.8	101
111	Modelling hormonal response and development. Trends in Plant Science, 2014, 19, 311-319.	4.3	100
112	Genome Wide Binding Site Analysis Reveals Transcriptional Coactivation of Cytokinin-Responsive Genes by DELLA Proteins. PLoS Genetics, 2015, 11, e1005337.	1.5	99
113	Auxin Transport. Developmental Cell, 2003, 5, 824-826.	3.1	98
114	SHORT-ROOT and SCARECROW Regulate Leaf Growth in Arabidopsis by Stimulating S-Phase Progression of the Cell Cycle. Plant Physiology, 2010, 154, 1183-1195.	2.3	98
115	Integration of hormonal signaling networks and mobile microRNAs is required for vascular patterning in Arabidopsis roots. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 857-862.	3.3	98
116	Hormonal regulation of root growth: integrating local activities into global behaviour. Trends in Plant Science, 2012, 17, 326-331.	4.3	97
117	A scanner system for high-resolution quantification of variation in root growth dynamics of Brassica rapa genotypes. Journal of Experimental Botany, 2014, 65, 2039-2048.	2.4	96
118	Latency and reactivation of infectious laryngotracheitis vaccine virus. Archives of Virology, 1991, 121, 213-218.	0.9	95
119	Growth-induced hormone dilution can explain the dynamics of plant root cell elongation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7577-7582.	3.3	95
120	Rice actin-binding protein RMD is a key link in the auxinâ€“actin regulatory loop that controls cell growth. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10377-10382.	3.3	95
121	The Xerobranching Response Represses Lateral Root Formation When Roots Are Not in Contact with Water. Current Biology, 2018, 28, 3165-3173.e5.	1.8	94
122	The AUX1 LAX family of auxin influx carriers is required for the establishment of embryonic root cell organization in Arabidopsis thaliana. Annals of Botany, 2010, 105, 277-289.	1.4	93
123	Plant embryogenesis requires AUX/LAX-mediated auxin influx. Development (Cambridge), 2015, 142, 702-11.	1.2	92
124	Intermittent and persistent shedding of Escherichia coli O157 in cohorts of naturally infected calves. Journal of Applied Microbiology, 2004, 97, 1045-1053.	1.4	89
125	Identification of Novel Rodent Herpesviruses, Including the First Gammaherpesvirus of Mus musculus. Journal of Virology, 2007, 81, 8091-8100.	1.5	89
126	CellSeT: Novel Software to Extract and Analyze Structured Networks of Plant Cells from Confocal Images. Plant Cell, 2012, 24, 1353-1361.	3.1	88

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127	Auxin Influx Activity Is Associated with Frankia Infection during Actinorhizal Nodule Formation in Casuarina glauca Â. Plant Physiology, 2007, 144, 1852-1862.	2.3	84
128	Mycobacterium microti Infection (Vole Tuberculosis) in Wild Rodent Populations. Journal of Clinical Microbiology, 2002, 40, 3281-3285.	1.8	83
129	Characterisation of Salmonella enterica serotype Typhimurium isolates from wild birds in northern England from 2005 â€“ 2006. BMC Veterinary Research, 2008, 4, 4.	0.7	83
130	The dynamics of health in wild field vole populations: a haematological perspective. Journal of Animal Ecology, 2008, 77, 984-997.	1.3	83
131	cDNA sequence and differential expression of the gene encoding the glutamine synthetase ? polypeptide ofPhaseolus vulgaris L.. Plant Molecular Biology, 1989, 12, 553-565.	2.0	79
132	The effect of cowpox virus infection on fecundity in bank voles and wood mice. Proceedings of the Royal Society B: Biological Sciences, 1997, 264, 1457-1461.	1.2	79
133	New insight into the biochemical mechanisms regulating auxin transport in plants. Biochemical Journal, 2007, 401, 613-622.	1.7	79
134	At<scp>MYB</scp>93 is a novel negative regulator of lateral root development in Arabidopsis. New Phytologist, 2014, 203, 1194-1207.	3.5	79
135	Characterization of Pearl Millet Root Architecture and Anatomy Reveals Three Types of Lateral Roots. Frontiers in Plant Science, 2016, 7, 829.	1.7	79
136	Antimicrobial resistance in equine faecal Escherichia coli isolates from North West England. Annals of Clinical Microbiology and Antimicrobials, 2010, 9, 12.	1.7	77
137	Addressing Research Bottlenecks to Crop Productivity. Trends in Plant Science, 2021, 26, 607-630.	4.3	76
138	Auxin Carriers Localization Drives Auxin Accumulation in Plant Cells Infected by Frankia in Casuarina glauca Actinorhizal Nodules. Plant Physiology, 2010, 154, 1372-1380.	2.3	75
139	The effects of cowpox virus on survival in natural rodent populations: increases and decreases. Journal of Animal Ecology, 2002, 71, 558-568.	1.3	74
140	Auxin fluxes through plasmodesmata modify root-tip auxin distribution. Development (Cambridge), 2020, 147, .	1.2	74
141	The wood mouse is a natural host for Murid herpesvirus 4. Journal of General Virology, 2003, 84, 111-113.	1.3	73
142	Authentication of Coffee by Means of PCR-RFLP Analysis and Lab-on-a-Chip Capillary Electrophoresis. Journal of Agricultural and Food Chemistry, 2006, 54, 7466-7470.	2.4	72
143	EXPANSIN A1-mediated radial swelling of pericycle cells positions anticlinal cell divisions during lateral root initiation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8597-8602.	3.3	71
144	Plant systems biology: network matters. Plant, Cell and Environment, 2011, 34, 535-553.	2.8	70

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145	Effects of X-Ray Dose On Rhizosphere Studies Using X-Ray Computed Tomography. PLoS ONE, 2013, 8, e67250.	1.1	70
146	Auxin Influx Carriers Control Vascular Patterning and Xylem Differentiation in Arabidopsis thaliana. PLoS Genetics, 2015, 11, e1005183.	1.5	70
147	Getting to the root of plant biology: impact of the Arabidopsis genome sequence on root research. Plant Journal, 2010, 61, 992-1000.	2.8	67
148	Functional analysis of folate polyglutamylation and its essential role in plant metabolism and development. Plant Journal, 2010, 64, 267-279.	2.8	67
149	Rice actin binding protein RMD controls crown root angle in response to external phosphate. Nature Communications, 2018, 9, 2346.	5.8	66
150	Comprehensive metabolic profiling of mono- and polyglutamated folates and their precursors in plant and animal tissue using liquid chromatography/negative ion electrospray ionisation tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2005, 19, 2390-2398.	0.7	65
151	Genetically Diverse Coronaviruses in Wild Bird Populations of Northern England. Emerging Infectious Diseases, 2009, 15, 1091-1094.	2.0	65
152	Natural genetic variation in caesium (Cs) accumulation by Arabidopsis thaliana. New Phytologist, 2004, 162, 535-548.	3.5	64
153	Multiscale Systems Analysis of Root Growth and Development: Modeling Beyond the Network and Cellular Scales. Plant Cell, 2012, 24, 3892-3906.	3.1	64
154	Nucleotide sequence of UK and Australian isolates of feline calicivirus (FCV) and phylogenetic analysis of FCVs. Veterinary Microbiology, 1999, 67, 175-193.	0.8	63
155	Cowpox virus infection in natural field vole Microtus agrestis populations: significant negative impacts on survival. Journal of Animal Ecology, 2008, 77, 110-119.	1.3	63
156	Going the distance with auxin: unravelling the molecular basis of auxin transport. Philosophical Transactions of the Royal Society B: Biological Sciences, 1998, 353, 1511-1515.	1.8	62
157	Disease dynamics in cyclic populations of field voles (Microtus agrestis): cowpox virus and vole tuberculosis (Mycobacterium microti). Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 859-867.	1.2	62
158	Quiescent center initiation in the Arabidopsis lateral root primordia is dependent on the SCARECROW transcription factor. Development (Cambridge), 2016, 143, 3363-71.	1.2	61
159	Assessing the influence of the rhizosphere on soil hydraulic properties using X-ray computed tomography and numerical modelling. Journal of Experimental Botany, 2015, 66, 2305-2314.	2.4	60
160	The Molecular Biology and Biochemistry of Plant Glutamine Synthetase from Root Nodules of Phaseolus vulgaris L. and other Legumes. Journal of Plant Physiology, 1988, 132, 387-393.	1.6	58
161	Infection with cowpox virus decreases female maturation rates in wild populations of woodland rodents. Oikos, 2005, 109, 317-322.	1.2	58
162	Glutamine synthetase isoenzymes of Phaseolus vulgaris L.: subunit composition in developing root nodules and plumules. Planta, 1989, 179, 433-440.	1.6	57

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163	The roots of future rice harvests. Rice, 2014, 7, 29.	1.7	57
164	The Binding of Auxin to the Arabidopsis Auxin Influx Transporter AUX1. Plant Physiology, 2008, 148, 529-535.	2.3	56
165	MtLAX2, a Functional Homologue of the Arabidopsis Auxin Influx Transporter AUX1, Is Required for Nodule Organogenesis. Plant Physiology, 2017, 174, 326-338.	2.3	56
166	A network of transcriptional repressors modulates auxin responses. Nature, 2021, 589, 116-119.	13.7	56
167	Cytokinin acts through the auxin influx carrier AUX1 to regulate cell elongation in the root. Development (Cambridge), 2016, 143, 3982-3993.	1.2	55
168	SUMO conjugation to the pattern recognition receptor FLS2 triggers intracellular signalling in plant innate immunity. Nature Communications, 2018, 9, 5185.	5.8	55
169	Molecular Epidemiology and Characterization of Campylobacter spp. Isolated from Wild Bird Populations in Northern England. Applied and Environmental Microbiology, 2009, 75, 3007-3015.	1.4	53
170	Mechanical modelling quantifies the functional importance of outer tissue layers during root elongation and bending. New Phytologist, 2014, 202, 1212-1222.	3.5	53
171	Tonoplast Aquaporins Facilitate Lateral Root Emergence. Plant Physiology, 2016, 170, 1640-1654.	2.3	53
172	Excretion of Vancomycin-Resistant Enterococci by Wild Mammals. Emerging Infectious Diseases, 2002, 8, 636-638.	2.0	52
173	Evidence of Spread of the Emerging Infectious Disease, Finch Trichomonosis, by Migrating birds. EcoHealth, 2011, 8, 143-153.	0.9	52
174	Insect haptoelectrical stimulation of Venus flytrap triggers exocytosis in gland cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4822-4827.	3.3	50
175	Quantifying the effect of soil moisture content on segmenting root system architecture in X-ray computed tomography images. Plant and Soil, 2013, 370, 35-45.	1.8	49
176	The role of auxin and cytokinin signalling in specifying the root architecture of Arabidopsis thaliana. Journal of Theoretical Biology, 2013, 317, 71-86.	0.8	49
177	A central role for gamma-glutamyl hydrolases in plant folate homeostasis. Plant Journal, 2010, 64, 256-266.	2.8	48
178	Auxin influx importers modulate serration along the leaf margin. Plant Journal, 2015, 83, 705-718.	2.8	48
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