Malcolm J Bennett

List of Publications by Year
in descending order

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	Root angle in maize influences nitrogen capture and is regulated by calcineurin Bâ€like protein <scp>(CBL)</scp>â€interacting serine/threonineâ€protein kinase 15 (<scp><i>ZmCIPK15</i></scp>). Plant, Cell and Environment, 2022, 45, 837-853.	2.8	46
2	Soil penetration by maize roots is negatively related to ethyleneâ€induced thickening. Plant, Cell and Environment, 2022, 45, 789-804.	2.8	23
3	The Virtual Root: Mathematical Modeling of Auxin Transport in the Arabidopsis Root Tip Using the Open-Source Software SimuPlant. Methods in Molecular Biology, 2022, 2395, 147-164.	0.4	1
4	Orchestration of ethylene and gibberellin signals determines primary root elongation in rice. Plant Cell, 2022, 34, 1273-1288.	3.1	25
5	Root phenotypes for the future. Plant, Cell and Environment, 2022, 45, 595-601.	2.8	16
6	Integrated root phenotypes for improved rice performance under low nitrogen availability. Plant, Cell and Environment, 2022, 45, 805-822.	2.8	23
7	Xâ€ray CT reveals 4D root system development and lateral root responses to nitrate in soil. The Plant Phenome Journal, 2022, 5, .	1.0	13
8	Systems approaches reveal that ABCB and PIN proteins mediate co-dependent auxin efflux. Plant Cell, 2022, 34, 2309-2327.	3.1	19
9	Root system size and root hair length are key phenes for nitrate acquisition and biomass production across natural variation in Arabidopsis. Journal of Experimental Botany, 2022, 73, 3569-3583.	2.4	18
10	Identification of QTL and underlying genes for root system architecture associated with nitrate nutrition in hexaploid wheat. Journal of Integrative Agriculture, 2022, 21, 917-932.	1.7	6
11	Ethylene inhibits rice root elongation in compacted soil via ABA- and auxin-mediated mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	34
12	Mapping sites of gibberellin biosynthesis in the Arabidopsis root tip. New Phytologist, 2021, 229, 1521-1534.	3.5	34
13	The interaction between wheat roots and soil pores in structured field soil. Journal of Experimental Botany, 2021, 72, 747-756.	2.4	46
14	A network of transcriptional repressors modulates auxin responses. Nature, 2021, 589, 116-119.	13.7	56
15	External Mechanical Cues Reveal a Katanin-Independent Mechanism behind Auxin-Mediated Tissue Bending in Plants. Developmental Cell, 2021, 56, 67-80.e3.	3.1	29
16	Uncovering How Auxin Optimizes Root Systems Architecture in Response to Environmental Stresses. Cold Spring Harbor Perspectives in Biology, 2021, 13, a040014.	2.3	22
17	Addressing Research Bottlenecks to Crop Productivity. Trends in Plant Science, 2021, 26, 607-630.	4.3	76
18	OsJAZ11 regulates phosphate starvation responses in rice. Planta, 2021, 254, 8.	1.6	16

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19	AUXIN RESPONSE FACTORS 6 and 17 control the flag leaf angle in rice by regulating secondary cell wall biosynthesis of lamina joints. Plant Cell, 2021, 33, 3120-3133.	3.1	41
20	A Tale of Two Domains Pushing Lateral Roots. Trends in Plant Science, 2021, 26, 770-779.	4.3	5
21	Non-invasive hydrodynamic imaging in plant roots at cellular resolution. Nature Communications, 2021, 12, 4682.	5.8	19
22	Plant roots sense soil compaction through restricted ethylene diffusion. Science, 2021, 371, 276-280.	6.0	145
23	Oilseed Rape Cultivars Show Diversity of Root Morphologies with the Potential for Better Capture of Nitrogen. Nitrogen, 2021, 2, 491-505.	0.6	6
24	DWT1/DWL2 act together with OsPIP5K1 to regulate plant uniform growth in rice. New Phytologist, 2020, 225, 1234-1246.	3.5	16
25	Positioning the Root Elongation Zone Is Saltatory and Receives Input from the Shoot. IScience, 2020, 23, 101309.	1.9	4
26	CEP receptor signalling controls root system architecture in Arabidopsis and Medicago. New Phytologist, 2020, 226, 1809-1821.	3.5	35
27	A mini foxtail millet with an Arabidopsis-like life cycle as a C4 model system. Nature Plants, 2020, 6, 1167-1178.	4.7	111
28	The CEP5 Peptide Promotes Abiotic Stress Tolerance, As Revealed by Quantitative Proteomics, and Attenuates the AUX/IAA Equilibrium in Arabidopsis. Molecular and Cellular Proteomics, 2020, 19, 1248-1262.	2.5	35
29	Pitfalls in auxin pharmacology. New Phytologist, 2020, 227, 286-292.	3.5	7
30	Auxin-dependent control of a plasmodesmal regulator creates a negative feedback loop modulating lateral root emergence. Nature Communications, 2020, 11, 364.	5.8	41
31	Cell Death in Cells Overlying Lateral Root Primordia Facilitates Organ Growth in Arabidopsis. Current Biology, 2020, 30, 455-464.e7.	1.8	34
32	Early developmental plasticity of lateral roots in response to asymmetric water availability. Nature Plants, 2020, 6, 73-77.	4.7	23
33	Auxin fluxes through plasmodesmata modify root-tip auxin distribution. Development (Cambridge), 2020, 147, .	1.2	74
34	An extended root phenotype: the rhizosphere, its formation and impacts on plant fitness. Plant Journal, 2020, 103, 951-964.	2.8	151
35	Arabidopsis antibody resources for functional studies in plants. Scientific Reports, 2020, 10, 21945.	1.6	3
36	Genetic analysis of the Arabidopsis TIR1/AFB auxin receptors reveals both overlapping and specialized functions. ELife, 2020, 9, .	2.8	115

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37	Uncovering the hidden half of plants using new advances in root phenotyping. Current Opinion in Biotechnology, 2019, 55, 1-8.	3.3	248
38	A New Angle on How Roots Acclimate to Sporadic Rainfall. Cell, 2019, 178, 269-271.	13.5	7
39	Lateral Root Formation in Arabidopsis: A Well-Ordered LRexit. Trends in Plant Science, 2019, 24, 826-839.	4.3	109
40	PUCHI regulates very long chain fatty acid biosynthesis during lateral root and callus formation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14325-14330.	3.3	46
41	Emergent Protective Organogenesis in Date Palms: A Morpho-Devo-Dynamic Adaptive Strategy during Early Development. Plant Cell, 2019, 31, 1751-1766.	3.1	24
42	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
43	Turning lateral roots into nodules. Science, 2019, 366, 953-954.	6.0	4
44	Anthropogenic environmental drivers of antimicrobial resistance in wildlife. Science of the Total Environment, 2019, 649, 12-20.	3.9	108
45	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
46	AUX1-mediated root hair auxin influx governs SCFTIR1/AFB-type Ca2+ signaling. Nature Communications, 2018, 9, 1174.	5.8	160
47	A mechanistic framework for auxin dependent Arabidopsis root hair elongation to low external phosphate. Nature Communications, 2018, 9, 1409.	5.8	146
48	Rice auxin influx carrier OsAUX1 facilitates root hair elongation in response to low external phosphate. Nature Communications, 2018, 9, 1408.	5.8	110
49	Coordination of meristem and boundary functions by transcription factors in the SHOOT MERISTEMLESS regulatory network. Development (Cambridge), 2018, 145, .	1.2	41
50	Auxin molecular field maps define <scp>AUX</scp>1 selectivity: many auxin herbicides are not substrates. New Phytologist, 2018, 217, 1625-1639.	3.5	24
51	Root Gravitropism: Quantification, Challenges, and Solutions. Methods in Molecular Biology, 2018, 1761, 103-112.	0.4	6
52	PYL8 mediates ABA perception in the root through non-cell-autonomous and ligand-stabilizationâ€“based mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11857-E11863.	3.3	46
53	Root branching toward water involves posttranslational modification of transcription factor ARF7. Science, 2018, 362, 1407-1410.	6.0	179
54	SUMO conjugation to the pattern recognition receptor FLS2 triggers intracellular signalling in plant innate immunity. Nature Communications, 2018, 9, 5185.	5.8	55

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55	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
56	Rice actin binding protein RMD controls crown root angle in response to external phosphate. Nature Communications, 2018, 9, 2346.	5.8	66
57	Plant Biology: Building Barriersâ€¦ in Roots. Current Biology, 2017, 27, R172-R174.	1.8	8
58	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
59	Root hydrotropism is controlled via a cortex-specific growth mechanism. Nature Plants, 2017, 3, 17057.	4.7	183
60	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
61	Linear discriminant analysis reveals differences in root architecture in wheat seedlings related to nitrogen uptake efficiency. Journal of Experimental Botany, 2017, 68, 4969-4981.	2.4	26
62	Shaping 3D Root System Architecture. Current Biology, 2017, 27, R919-R930.	1.8	162
63	Ears, shoots and leaves. Nature Plants, 2017, 3, 686-687.	4.7	1
64	Plant Phenomics, From Sensors to Knowledge. Current Biology, 2017, 27, R770-R783.	1.8	416
65	Xâ€Ray Computed Tomography of Crop Plant Root Systems Grown in Soil. Current Protocols in Plant Biology, 2017, 2, 270-286.	2.8	28
66	Adding a Piece to the Leaf Epidermal Cell Shape Puzzle. Developmental Cell, 2017, 43, 255-256.	3.1	5
67	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
68	Dynamic Regulation of Auxin Response during Rice Development Revealed by Newly Established Hormone Biosensor Markers. Frontiers in Plant Science, 2017, 8, 256.	1.7	41
69	A scanner-based rhizobox system enabling the quantification of root system development and response of <i>Brassica rapa</i> seedlings to external P availability. Plant Root, 2017, 11, 16-32.	0.3	7
70	Characterization of Pearl Millet Root Architecture and Anatomy Reveals Three Types of Lateral Roots. Frontiers in Plant Science, 2016, 7, 829.	1.7	79
71	Visual tracking for the recovery of multiple interacting plant root systems from X-ray $$upmu $$ Î¼ CT images. Machine Vision and Applications, 2016, 27, 721-734.	1.7	17
72	Crosstalk between Gibberellin Signaling and Iron Uptake in Plants: An Achillesâ€™ Heel for Modern Cereal Varieties?. Developmental Cell, 2016, 37, 110-111.	3.1	6

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73	Cytokinin acts through the auxin influx carrier AUX1 to regulate cell elongation in the root. Development (Cambridge), 2016, 143, 3982-3993.	1.2	55
74	Dioxygenase-encoding <i>AtDAO1</i> gene controls IAA oxidation and homeostasis in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11016-11021.	3.3	162
75	Quiescent center initiation in the <i>Arabidopsis</i> lateral root primordia is dependent on the <i>SCARECROW</i> transcription factor. Development (Cambridge), 2016, 143, 3363-71.	1.2	61
76	Evolving technologies for growing, imaging and analyzing 3D root system architecture of crop plants. Journal of Integrative Plant Biology, 2016, 58, 230-241.	4.1	43
77	Lateral root emergence in <i>Arabidopsis</i> is dependent on transcription factor LBD29 regulating auxin influx carrier <i>LAX3</i>. Development (Cambridge), 2016, 143, 3340-9.	1.2	111
78	Hybrid vertex-midline modelling of elongated plant organs. Interface Focus, 2016, 6, 20160043.	1.5	16
79	RBOH-mediated ROS production facilitates lateral root emergence in Arabidopsis. Development (Cambridge), 2016, 143, 3328-39.	1.2	152
80	â€˜Disperse abroad in the landâ€™: the role of wildlife in the dissemination of antimicrobial resistance. Biology Letters, 2016, 12, 20160137.	1.0	156
81	One Gene, Many Proteins: Mapping Cell-Specific Alternative Splicing in Plants. Developmental Cell, 2016, 39, 383-385.	3.1	18
82	Dynamic regulation of auxin oxidase and conjugating enzymes <i>AtDAO1</i> and <i>GH3</i> modulates auxin homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11022-11027.	3.3	119
83	Effects of rooting media on root growth and morphology of Brassica rapa seedlings. South African Journal of Plant and Soil, 2016, 33, 219-227.	0.4	4
84	Tonoplast Aquaporins Facilitate Lateral Root Emergence. Plant Physiology, 2016, 170, 1640-1654.	2.3	53
85	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
86	Hydrotropism: Analysis of the Root Response to a Moisture Gradient. Methods in Molecular Biology, 2016, 1398, 3-9.	0.4	20
87	GH3-Mediated Auxin Conjugation Can Result in Either Transient or Oscillatory Transcriptional Auxin Responses. Bulletin of Mathematical Biology, 2016, 78, 210-234.	0.9	11
88	Quiescent center initiation in the Arabidopsis lateral root primordia is dependent on the SCARECROW transcription factor. Journal of Cell Science, 2016, 129, e1.2-e1.2.	1.2	1
89	Auxin influx importers modulate serration along the leaf margin. Plant Journal, 2015, 83, 705-718.	2.8	48
90	Extracting multiple interacting root systems using Xâ€ray microcomputed tomography. Plant Journal, 2015, 84, 1034-1043.	2.8	40

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91	Achieving more crop per drop. Nature Plants, 2015, 1, 15118.	4.7	29
92	Multi-omics analysis identifies genes mediating the extension of cell walls in the Arabidopsis thaliana root elongation zone. Frontiers in Cell and Developmental Biology, 2015, 3, 10.	1.8	30
93	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
94	On the evaluation of methods for the recovery of plant root systems from X-ray computed tomography images. Functional Plant Biology, 2015, 42, 460.	1.1	21
95	New insights into root gravitropic signalling. Journal of Experimental Botany, 2015, 66, 2155-2165.	2.4	141
96	Plant embryogenesis requires AUX/LAX-mediated auxin influx. Development (Cambridge), 2015, 142, 702-11.	1.2	92
97	A fluorescent hormone biosensor reveals the dynamics of jasmonate signalling in plants. Nature Communications, 2015, 6, 6043.	5.8	130
98	The circadian clock rephases during lateral root organ initiation in Arabidopsis thaliana. Nature Communications, 2015, 6, 7641.	5.8	119
99	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
100	Auxin Influx Carriers Control Vascular Patterning and Xylem Differentiation in Arabidopsis thaliana. PLoS Genetics, 2015, 11, e1005183.	1.5	70
101	Phenotyping pipeline reveals major seedling root growth QTL in hexaploid wheat. Journal of Experimental Botany, 2015, 66, 2283-2292.	2.4	196
102	Seeing the wood and the trees. Nature, 2015, 517, 558-559.	13.7	5
103	Modelling of Arabidopsis LAX3 expression suggests auxin homeostasis. Journal of Theoretical Biology, 2015, 366, 57-70.	0.8	12
104	Visual Object Tracking for the Extraction of Multiple Interacting Plant Root Systems. Lecture Notes in Computer Science, 2015, , 89-104.	1.0	2
105	Genome Wide Binding Site Analysis Reveals Transcriptional Coactivation of Cytokinin-Responsive Genes by DELLA Proteins. PLoS Genetics, 2015, 11, e1005337.	1.5	99
106	Imaging and Quantitative Methods for Studying Cytoskeletal Rearrangements During Root Development and Gravitropism. Methods in Molecular Biology, 2015, 1309, 81-89.	0.4	1
107	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
108	Systems Analysis of Auxin Transport in the <i>Arabidopsis</i> Root Apex Â. Plant Cell, 2014, 26, 862-875.	3.1	190

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109	Integration of hormonal signaling networks and mobile microRNAs is required for vascular patterning in <i>Arabidopsis</i> roots. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 857-862.	3.3	98
110	Comparison of SNP-Based Detection Assays for Food Analysis: Coffee Authentication. Journal of AOAC INTERNATIONAL, 2014, 97, 1114-1120.	0.7	9
111	The roots of future rice harvests. Rice, 2014, 7, 29.	1.7	57
112	Mechanical modelling quantifies the functional importance of outer tissue layers during root elongation and bending. New Phytologist, 2014, 202, 1212-1222.	3.5	53
113	<i>At</i><scp>MYB</scp>93 is a novel negative regulator of lateral root development in Arabidopsis. New Phytologist, 2014, 203, 1194-1207.	3.5	79
114	The ASH1-RELATED3 SET-Domain Protein Controls Cell Division Competence of the Meristem and the Quiescent Center of the Arabidopsis Primary Root Â Â. Plant Physiology, 2014, 166, 632-643.	2.3	35
115	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
116	Modelling hormonal response and development. Trends in Plant Science, 2014, 19, 311-319.	4.3	100
117	Feline Poxvirus Infections. , 2014, , 252-256.		1
118	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
119	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
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	Systems biology approaches to understand the role of auxin in root growth and development. Physiologia Plantarum, 2014, 151, 73-82.	2.6	15
122	Branching Out in Roots: Uncovering Form, Function, and Regulation. Plant Physiology, 2014, 166, 538-550.	2.3	231
123	Hormone Crosstalk: Directing the Flow. Current Biology, 2014, 24, R366-R368.	1.8	7
124	Interview with Malcolm J. Bennett. Trends in Plant Science, 2014, 19, 273-274.	4.3	2
125	Time-Profiling Fluorescent Reporters in the Arabidopsis Root. Methods in Molecular Biology, 2014, 1056, 11-17.	0.4	7
126	Auxin transport: Providing plants with a new sense of direction. Biochemist, 2014, 36, 12-15.	0.2	6

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127	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
128	Post-embryonic root organogenesis in cereals: branching out from model plants. Trends in Plant Science, 2013, 18, 459-467.	4.3	142
129	SnapShot: Root Development. Cell, 2013, 155, 1190-1190.e1.	13.5	4
130	Cytokinin Induces Cell Division in the Quiescent Center of the Arabidopsis Root Apical Meristem. Current Biology, 2013, 23, 1979-1989.	1.8	151
131	Inference of the Genetic Network Regulating Lateral Root Initiation in Arabidopsis thaliana. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 50-60.	1.9	6
132	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
133	Biosensors for phytohormone quantification: challenges, solutions, and opportunities. Trends in Plant Science, 2013, 18, 244-249.	4.3	33
134	Endodermal ABA Signaling Promotes Lateral Root Quiescence during Salt Stress in<i>Arabidopsis</i>Seedlings Â. Plant Cell, 2013, 25, 324-341.	3.1	367
135	MicroFilament Analyzer, an image analysis tool for quantifying fibrillar orientation, reveals changes in microtubule organization during gravitropism. Plant Journal, 2013, 74, 1045-1058.	2.8	30
136	Lateral root development in Arabidopsis: fifty shades of auxin. Trends in Plant Science, 2013, 18, 450-458.	4.3	536
137	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
138	RootNav: Navigating Images of Complex Root Architectures Â Â. Plant Physiology, 2013, 162, 1802-1814.	2.3	218
139	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
140	Sequential induction of auxin efflux and influx carriers regulates lateral root emergence. Molecular Systems Biology, 2013, 9, 699.	3.2	104
141	Root Systems Biology: Integrative Modeling across Scales, from Gene Regulatory Networks to the Rhizosphere. Plant Physiology, 2013, 163, 1487-1503.	2.3	34
142	Mapping the site of action of the Green Revolution hormone gibberellin. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4443-4444.	3.3	10
143	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
144	Exploring the Diversity of Arcobacter butzleri from Cattle in the UK Using MLST and Whole Genome Sequencing. PLoS ONE, 2013, 8, e55240.	1.1	43

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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	In Silico Plant Biology Comes of Age. Plant Cell, 2012, 24, 3857-3858.	3.1	5
147	Recovering the dynamics of root growth and development using novel image acquisition and analysis methods. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1517-1524.	1.8	41
148	Analyzing Lateral Root Development: How to Move Forward. Plant Cell, 2012, 24, 15-20.	3.1	125
149	Analysis of Risk Factors Associated with Antibiotic-Resistant <i>Escherichia coli</i>. Microbial Drug Resistance, 2012, 18, 161-168.	0.9	13
150	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
151	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
152	<i>AUX/LAX</i> Genes Encode a Family of Auxin Influx Transporters That Perform Distinct Functions during <i>Arabidopsis</i> Development. Plant Cell, 2012, 24, 2874-2885.	3.1	373
153	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
154	Auxin reflux between the endodermis and pericycle promotes lateral root initiation. EMBO Journal, 2012, 32, 149-158.	3.5	148
155	CellSeT: Novel Software to Extract and Analyze Structured Networks of Plant Cells from Confocal Images. Plant Cell, 2012, 24, 1353-1361.	3.1	88
156	Ecology of zoonoses: natural and unnatural histories. Lancet, The, 2012, 380, 1936-1945.	6.3	590
157	Multiscale Systems Analysis of Root Growth and Development: Modeling Beyond the Network and Cellular Scales. Plant Cell, 2012, 24, 3892-3906.	3.1	64
158	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
159	Hormonal regulation of root growth: integrating local activities into global behaviour. Trends in Plant Science, 2012, 17, 326-331.	4.3	97
160	Auxin regulates aquaporin function to facilitate lateral root emergence. Nature Cell Biology, 2012, 14, 991-998.	4.6	323
161	A novel sensor to map auxin response and distribution at high spatio-temporal resolution. Nature, 2012, 482, 103-106.	13.7	664
162	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

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163	The auxin signalling network translates dynamic input into robust patterning at the shoot apex. Molecular Systems Biology, 2011, 7, 508.	3.2	520
164	Plant systems biology: network matters. Plant, Cell and Environment, 2011, 34, 535-553.	2.8	70
165	Root Development: Cytokinin Transport Matters, Too!. Current Biology, 2011, 21, R423-R425.	1.8	9
166	Evidence of Spread of the Emerging Infectious Disease, Finch Trichomonosis, by Migrating birds. EcoHealth, 2011, 8, 143-153.	0.9	52
167	The influence of cytokininâ€“auxin cross-regulation on cell-fate determination in Arabidopsis thaliana root development. Journal of Theoretical Biology, 2011, 283, 152-167.	0.8	40
168	SHORT-ROOT Regulates Primary, Lateral, and Adventitious Root Development in Arabidopsis Â Â Â. Plant Physiology, 2011, 155, 384-398.	2.3	163
169	Brassinosteroid perception in the epidermis controls root meristem size. Development (Cambridge), 2011, 138, 839-848.	1.2	302
170	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
171	Unraveling the Evolution of Auxin Signaling Â Â. Plant Physiology, 2011, 155, 209-221.	2.3	140
172	Conserved <i>Arabidopsis</i> ECHIDNA protein mediates <i>trans</i> 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
173	Folate Polyglutamylation is Required for Rice Seed Development. Rice, 2010, 3, 181-193.	1.7	9
174	Stochastic and deterministic multiscale models for systems biology: an auxin-transport case study. BMC Systems Biology, 2010, 4, 34.	3.0	35
175	Plant Development: Size Matters, andÂIt's All Down to Hormones. Current Biology, 2010, 20, R511-R513.	1.8	31
176	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
177	Antimicrobial resistance in equine faecal Escherichia coli isolates from North West England. Annals of Clinical Microbiology and Antimicrobials, 2010, 9, 12.	1.7	77
178	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
179	Functional analysis of folate polyglutamylation and its essential role in plant metabolism and development. Plant Journal, 2010, 64, 267-279.	2.8	67
180	A central role for gamma-glutamyl hydrolases in plant folate homeostasis. Plant Journal, 2010, 64, 256-266.	2.8	48

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