

Tom Beeckman

List of Publications by Year in descending order

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218
papers

26,056
citations

4942

84
h-index

7136

153
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all docs

239
docs citations

239
times ranked

17520
citing authors

#	ARTICLE	IF	CITATIONS
1	Auxin Transport Promotes Arabidopsis Lateral Root Initiation. <i>Plant Cell</i> , 2001, 13, 843-852.	3.1	930
2	The auxin influx carrier LAX3 promotes lateral root emergence. <i>Nature Cell Biology</i> , 2008, 10, 946-954.	4.6	715
3	Ethylene Regulates Root Growth through Effects on Auxin Biosynthesis and Transport-Dependent Auxin Distribution. <i>Plant Cell</i> , 2007, 19, 2197-2212.	3.1	682
4	Arabidopsis lateral root development: an emerging story. <i>Trends in Plant Science</i> , 2009, 14, 399-408.	4.3	681
5	A novel sensor to map auxin response and distribution at high spatio-temporal resolution. <i>Nature</i> , 2012, 482, 103-106.	13.7	664
6	Dissecting Arabidopsis lateral root development. <i>Trends in Plant Science</i> , 2003, 8, 165-171.	4.3	618
7	Auxin Control of Root Development. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a001537-a001537.	2.3	612
8	Functional Analysis of Cyclin-Dependent Kinase Inhibitors of Arabidopsis. <i>Plant Cell</i> , 2001, 13, 1653-1668.	3.1	595
9	Functional redundancy of PIN proteins is accompanied by auxin-dependent cross-regulation of PIN expression. <i>Development (Cambridge)</i> , 2005, 132, 4521-4531.	1.2	574
10	Auxin-dependent regulation of lateral root positioning in the basal meristem of Arabidopsis. <i>Development (Cambridge)</i> , 2007, 134, 681-690.	1.2	540
11	Lateral root development in Arabidopsis: fifty shades of auxin. <i>Trends in Plant Science</i> , 2013, 18, 450-458.	4.3	536
12	Auxin-Mediated Cell Cycle Activation during Early Lateral Root Initiation. <i>Plant Cell</i> , 2002, 14, 2339-2351.	3.1	523
13	Cytokinins Act Directly on Lateral Root Founder Cells to Inhibit Root Initiation. <i>Plant Cell</i> , 2008, 19, 3889-3900.	3.1	498
14	Strigolactones affect lateral root formation and root-hair elongation in Arabidopsis. <i>Planta</i> , 2011, 233, 209-216.	1.6	452
15	A Novel Aux/IAA28 Signaling Cascade Activates GATA23-Dependent Specification of Lateral Root Founder Cell Identity. <i>Current Biology</i> , 2010, 20, 1697-1706.	1.8	431
16	An abscisic acid-sensitive checkpoint in lateral root development of Arabidopsis. <i>Plant Journal</i> , 2003, 33, 543-555.	2.8	402
17	The roots of a new green revolution. <i>Trends in Plant Science</i> , 2010, 15, 600-607.	4.3	390
18	Control of proliferation, endoreduplication and differentiation by the Arabidopsis E2Fa-DPa transcription factor. <i>EMBO Journal</i> , 2002, 21, 1360-1368.	3.5	373

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19	Flowering-time genes modulate meristem determinacy and growth form in <i>Arabidopsis thaliana</i> . <i>Nature Genetics</i> , 2008, 40, 1489-1492.	9.4	353
20	A novel protein family mediates Casparian strip formation in the endodermis. <i>Nature</i> , 2011, 473, 380-383.	13.7	353
21	Receptor-Like Kinase ACR4 Restricts Formative Cell Divisions in the <i>Arabidopsis</i> Root. <i>Science</i> , 2008, 322, 594-597.	6.0	342
22	The ins and outs of the plant cell cycle. <i>Nature Reviews Molecular Cell Biology</i> , 2007, 8, 655-665.	16.1	314
23	Cell Cycle Progression in the Pericycle Is Not Sufficient for SOLITARY ROOT/IAA14-Mediated Lateral Root Initiation in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2005, 17, 3035-3050.	3.1	309
24	Root gravitropism is regulated by a transient lateral auxin gradient controlled by a tipping-point mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4668-4673.	3.3	304
25	Strigolactones Suppress Adventitious Rooting in <i>Arabidopsis</i> and Pea. <i>Plant Physiology</i> , 2012, 158, 1976-1987.	2.3	286
26	Integration of growth and patterning during vascular tissue formation in <i>Arabidopsis</i> . <i>Science</i> , 2014, 345, 1255-1261.	6.0	286
27	Changes in hydrogen peroxide homeostasis trigger an active cell death process in tobacco. <i>Plant Journal</i> , 2003, 33, 621-632.	2.8	272
28	Bimodular auxin response controls organogenesis in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2705-2710.	3.3	271
29	Receptor-like kinases shape the plant. <i>Nature Cell Biology</i> , 2009, 11, 1166-1173.	4.6	261
30	<i>Arabidopsis</i> WEE1 Kinase Controls Cell Cycle Arrest in Response to Activation of the DNA Integrity Checkpoint. <i>Plant Cell</i> , 2007, 19, 211-225.	3.1	258
31	Nitrification in agricultural soils: impact, actors and mitigation. <i>Current Opinion in Biotechnology</i> , 2018, 50, 166-173.	3.3	258
32	The Cyclin-Dependent Kinase Inhibitor KRP2 Controls the Onset of the Endoreduplication Cycle during <i>Arabidopsis</i> Leaf Development through Inhibition of Mitotic CDKA;1 Kinase Complexes. <i>Plant Cell</i> , 2005, 17, 1723-1736.	3.1	248
33	Lateral Root Initiation or the Birth of a New Meristem. <i>Plant Molecular Biology</i> , 2006, 60, 871-887.	2.0	248
34	A secreted peptide acts on BIN2-mediated phosphorylation of ARFs to potentiate auxin response during lateral root development. <i>Nature Cell Biology</i> , 2014, 16, 66-76.	4.6	245
35	A novel role for abscisic acid emerges from underground. <i>Trends in Plant Science</i> , 2006, 11, 434-439.	4.3	241
36	Chemical Inhibition of a Subset of <i>Arabidopsis thaliana</i> GSK3-like Kinases Activates Brassinosteroid Signaling. <i>Chemistry and Biology</i> , 2009, 16, 594-604.	6.2	240

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37	Molecular and Environmental Regulation of Root Development. Annual Review of Plant Biology, 2019, 70, 465-488.	8.6	224
38	The peri-cell-cycle in Arabidopsis. Journal of Experimental Botany, 2001, 52, 403-411.	2.4	213
39	A miR169 isoform regulates specific NF- κ B targets and root architecture in Arabidopsis. New Phytologist, 2014, 202, 1197-1211.	3.5	192
40	Strigolactones Are Involved in Root Response to Low Phosphate Conditions in Arabidopsis. Plant Physiology, 2012, 160, 1329-1341.	2.3	191
41	Transcript profiling of early lateral root initiation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 5146-5151.	3.3	190
42	Cyclic programmed cell death stimulates hormone signaling and root development in Arabidopsis. Science, 2016, 351, 384-387.	6.0	186
43	Transcription factor WRKY23 assists auxin distribution patterns during Arabidopsis root development through local control on flavonol biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1554-1559.	3.3	184
44	GOLVEN Secretory Peptides Regulate Auxin Carrier Turnover during Plant Gravitropic Responses. Developmental Cell, 2012, 22, 678-685.	3.1	182
45	Plant nitrogen nutrition: sensing and signaling. Current Opinion in Plant Biology, 2017, 39, 57-65.	3.5	178
46	Expression of cell cycle regulatory genes and morphological alterations in response to salt stress in Arabidopsis thaliana. Planta, 2000, 211, 632-640.	1.6	176
47	B1-Type Cyclin-Dependent Kinases Are Essential for the Formation of Stomatal Complexes in Arabidopsis thaliana. Plant Cell, 2004, 16, 945-955.	3.1	173
48	Arabidopsis NAC45/86 direct sieve element morphogenesis culminating in enucleation. Science, 2014, 345, 933-937.	6.0	173
49	Root Cap-Derived Auxin Pre-patterns the Longitudinal Axis of the Arabidopsis Root. Current Biology, 2015, 25, 1381-1388.	1.8	173
50	Auxin-Dependent Cell Cycle Reactivation through Transcriptional Regulation of Arabidopsis E2Fa by Lateral Organ Boundary Proteins. Plant Cell, 2011, 23, 3671-3683.	3.1	171
51	CRISPR-TSKO: A Technique for Efficient Mutagenesis in Specific Cell Types, Tissues, or Organs in Arabidopsis. Plant Cell, 2019, 31, 2868-2887.	3.1	171
52	Histological Study of Seed Coat Development in Arabidopsis thaliana. Journal of Plant Research, 2000, 113, 139-148.	1.2	166
53	Asymmetric cell division in land plants and algae: the driving force for differentiation. Nature Reviews Molecular Cell Biology, 2011, 12, 177-188.	16.1	165
54	Diarch Symmetry of the Vascular Bundle in Arabidopsis Root Encompasses the Pericycle and Is Reflected in Distich Lateral Root Initiation. Plant Physiology, 2008, 146, 140-148.	2.3	163

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55	Tackling Drought Stress: RECEPTOR-LIKE KINASES Present New Approaches. <i>Plant Cell</i> , 2012, 24, 2262-2278.	3.1	155
56	SCFTIR1/AFB-auxin signalling regulates PIN vacuolar trafficking and auxin fluxes during root gravitropism. <i>EMBO Journal</i> , 2012, 32, 260-274.	3.5	152
57	RBOH-mediated ROS production facilitates lateral root emergence in Arabidopsis. <i>Development (Cambridge)</i> , 2016, 143, 3328-39.	1.2	152
58	Auxin reflux between the endodermis and pericycle promotes lateral root initiation. <i>EMBO Journal</i> , 2012, 32, 149-158.	3.5	148
59	A Role for AtWRKY23 in Feeding Site Establishment of Plant-Parasitic Nematodes. <i>Plant Physiology</i> , 2008, 148, 358-368.	2.3	145
60	Manipulation of Auxin Transport in Plant Roots during <i>Rhizobium</i> Symbiosis and Nematode Parasitism. <i>Plant Cell</i> , 2009, 21, 2553-2562.	3.1	144
61	Post-embryonic root organogenesis in cereals: branching out from model plants. <i>Trends in Plant Science</i> , 2013, 18, 459-467.	4.3	142
62	Unraveling the Evolution of Auxin Signaling. <i>Plant Physiology</i> , 2011, 155, 209-221.	2.3	140
63	To branch or not to branch: the role of pre-patterning in lateral root formation. <i>Development (Cambridge)</i> , 2013, 140, 4301-4310.	1.2	137
64	Plastid gene expression and plant development require a plastidic protein of the mitochondrial transcription termination factor family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6674-6679.	3.3	134
65	A Hormone and Proteome Approach to Picturing the Initial Metabolic Events During Plasmodiophora brassicae Infection on Arabidopsis. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 1431-1443.	1.4	133
66	Extensive expression regulation and lack of heterologous enzymatic activity of the Class II trehalose metabolism proteins from <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2009, 32, 1015-1032.	2.8	131
67	Analyzing Lateral Root Development: How to Move Forward. <i>Plant Cell</i> , 2012, 24, 15-20.	3.1	125
68	The Emerging Role of Reactive Oxygen Species Signaling during Lateral Root Development. <i>Plant Physiology</i> , 2014, 165, 1105-1119.	2.3	121
69	Expansive Evolution of the TREHALOSE-6-PHOSPHATE PHOSPHATASE Gene Family in Arabidopsis. <i>Plant Physiology</i> , 2012, 160, 884-896.	2.3	120
70	A role for the root cap in root branching revealed by the non-auxin probe naxillin. <i>Nature Chemical Biology</i> , 2012, 8, 798-805.	3.9	118
71	Auxin transport and activity regulate stomatal patterning and development. <i>Nature Communications</i> , 2014, 5, 3090.	5.8	118
72	Overexpression of the Trehalase Gene <i>AtTRE1</i> Leads to Increased Drought Stress Tolerance in Arabidopsis and Is Involved in Abscisic Acid-Induced Stomatal Closure. <i>Plant Physiology</i> , 2013, 161, 1158-1171.	2.3	117

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73	An easy technique for the clearing of histochemically stained plant tissue. <i>Plant Molecular Biology Reporter</i> , 1994, 12, 37-42.	1.0	116
74	Genetic Complexity of Cellulose Synthase A Gene Function in Arabidopsis Embryogenesis. <i>Plant Physiology</i> , 2002, 130, 1883-1893.	2.3	116
75	Developmental regulation of CYCA2s contributes to tissue-specific proliferation in <i>Arabidopsis</i> . <i>EMBO Journal</i> , 2011, 30, 3430-3441.	3.5	113
76	Transcriptional and Functional Classification of the GOLVEN/ROOT GROWTH FACTOR/CLE-Like Signaling Peptides Reveals Their Role in Lateral Root and Hair Formation. <i>Plant Physiology</i> , 2013, 161, 954-970.	2.3	113
77	Plasma Membrane Calcium ATPases Are Important Components of Receptor-Mediated Signaling in Plant Immune Responses and Development. <i>Plant Physiology</i> , 2012, 159, 798-809.	2.3	112
78	Cytokinin response factors regulate PIN-FORMED auxin transporters. <i>Nature Communications</i> , 2015, 6, 8717.	5.8	108
79	A Spatiotemporal DNA Endoploidy Map of the Arabidopsis Root Reveals Roles for the Endocycle in Root Development and Stress Adaptation. <i>Plant Cell</i> , 2018, 30, 2330-2351.	3.1	107
80	Message in a bottle: small signalling peptide outputs during growth and development. <i>Journal of Experimental Botany</i> , 2013, 64, 5281-5296.	2.4	104
81	Sequential induction of auxin efflux and influx carriers regulates lateral root emergence. <i>Molecular Systems Biology</i> , 2013, 9, 699.	3.2	104
82	Tackling Plant Phosphate Starvation by the Roots. <i>Developmental Cell</i> , 2019, 48, 599-615.	3.1	99
83	<i>Arabidopsis</i> Aurora Kinases Function in Formative Cell Division Plane Orientation. <i>Plant Cell</i> , 2011, 23, 4013-4024.	3.1	97
84	The Xerobranching Response Represses Lateral Root Formation When Roots Are Not in Contact with Water. <i>Current Biology</i> , 2018, 28, 3165-3173.e5.	1.8	94
85	The CEP family in land plants: evolutionary analyses, expression studies, and role in Arabidopsis shoot development. <i>Journal of Experimental Botany</i> , 2013, 64, 5371-5381.	2.4	92
86	Three-dimensional patterns of cell division and expansion throughout the development of Arabidopsis thaliana leaves. <i>Journal of Experimental Botany</i> , 2014, 65, 6385-6397.	2.4	90
87	ABI3 Affects Plastid Differentiation in Dark-Grown Arabidopsis Seedlings. <i>Plant Cell</i> , 2000, 12, 35-52.	3.1	89
88	Auxin Transport Promotes Arabidopsis Lateral Root Initiation. <i>Plant Cell</i> , 2001, 13, 843.	3.1	88
89	Model-Based Analysis of Arabidopsis Leaf Epidermal Cells Reveals Distinct Division and Expansion Patterns for Pavement and Guard Cells. <i>Plant Physiology</i> , 2011, 156, 2172-2183.	2.3	81
90	OsMADS26 negatively regulates resistance to pathogens and drought tolerance in rice.. <i>Plant Physiology</i> , 2015, 169, pp.01192.2015.	2.3	81

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91	CEP5 and XIP1/CEPR1 regulate lateral root initiation in Arabidopsis. <i>Journal of Experimental Botany</i> , 2016, 67, 4889-4899.	2.4	81
92	The pericycle cell cycle in Arabidopsis. <i>Journal of Experimental Botany</i> , 2001, 52, 403-411.	2.4	76
93	Auxin and Epigenetic Regulation of <i>SKP2B</i> , an F-Box That Represses Lateral Root Formation. <i>Plant Physiology</i> , 2012, 160, 749-762.	2.3	74
94	Transcriptional regulation of PIN genes by FOUR LIPS and MYB88 during Arabidopsis root gravitropism. <i>Nature Communications</i> , 2015, 6, 8822.	5.8	74
95	Expanding the repertoire of secretory peptides controlling root development with comparative genome analysis and functional assays. <i>Journal of Experimental Botany</i> , 2015, 66, 5257-5269.	2.4	71
96	EXPANSIN A1-mediated radial swelling of pericycle cells positions anticlinal cell divisions during lateral root initiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8597-8602.	3.3	71
97	Developmental expression of the Arabidopsis thaliana <i>CycA2;1</i> gene. <i>Planta</i> , 2000, 211, 623-631.	1.6	70
98	A coherent transcriptional feed-forward motif model for mediating auxin-sensitive PIN3 expression during lateral root development. <i>Nature Communications</i> , 2015, 6, 8821.	5.8	70
99	Phloem-associated auxin response maxima determine radial positioning of lateral roots in maize. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 1525-1533.	1.8	67
100	RALFL34 regulates formative cell divisions in Arabidopsis pericycle during lateral root initiation. <i>Journal of Experimental Botany</i> , 2016, 67, 4863-4875.	2.4	66
101	A new role for glutathione in the regulation of root architecture linked to strigolactones. <i>Plant, Cell and Environment</i> , 2014, 37, 488-498.	2.8	65
102	The evolution of root branching: increasing the level of plasticity. <i>Journal of Experimental Botany</i> , 2019, 70, 785-793.	2.4	64
103	CKS1At overexpression in Arabidopsis thaliana inhibits growth by reducing meristem size and inhibiting cell-cycle progression. <i>Plant Journal</i> , 2001, 25, 617-626.	2.8	61
104	Tightly controlled WRKY23 expression mediates Arabidopsis embryo development. <i>EMBO Reports</i> , 2013, 14, 1136-1142.	2.0	61
105	The Past, Present, and Future of Chemical Biology in Auxin Research. <i>ACS Chemical Biology</i> , 2009, 4, 987-998.	1.6	60
106	Systematic analysis of cell cycle gene expression during Arabidopsis development. <i>Plant Journal</i> , 2009, 59, 645-660.	2.8	58
107	Strigolactones spatially influence lateral root development through the cytokinin signaling network. <i>Journal of Experimental Botany</i> , 2016, 67, 379-389.	2.4	58
108	VisualRTC: A New View on Lateral Root Initiation by Combining Specific Transcriptome Data Sets. <i>Plant Physiology</i> , 2010, 153, 34-40.	2.3	56

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109	The GLV6/RGF8/CLEL2 peptide regulates early pericycle divisions during lateral root initiation. <i>Journal of Experimental Botany</i> , 2015, 66, 5245-5256.	2.4	56
110	Adventitious Root Formation: New Insights and Perspectives. , 0, , 127-156.		54
111	Comparative transcriptomics as a tool for the identification of root branching genes in maize. <i>Plant Biotechnology Journal</i> , 2013, 11, 1092-1102.	4.1	54
112	Embedding Thin Plant Specimens for Oriented Sectioning. <i>Biotechnic and Histochemistry</i> , 2000, 75, 23-26.	0.7	53
113	Pollen deposition rates and the functioning of distyly in the perennial <i>Pulmonaria officinalis</i> (Boraginaceae). <i>Plant Systematics and Evolution</i> , 2008, 273, 1-12.	0.3	51
114	The SBT6.1 subtilase processes the GOLVEN1 peptide controlling cell elongation. <i>Journal of Experimental Botany</i> , 2016, 67, 4877-4887.	2.4	51
115	Dynamic control of lateral root positioning. <i>Current Opinion in Plant Biology</i> , 2017, 35, 1-7.	3.5	50
116	Functional Analysis of Cyclin-Dependent Kinase Inhibitors of Arabidopsis. <i>Plant Cell</i> , 2001, 13, 1653.	3.1	47
117	An auxin-regulable oscillatory circuit drives the root clock in <i>Arabidopsis</i> . <i>Science Advances</i> , 2021, 7, .	4.7	46
118	An easy and versatile embedding method for transverse sections. <i>Journal of Microscopy</i> , 2004, 213, 76-80.	0.8	45
119	Phosphorylation of MAP65-1 by Arabidopsis Aurora Kinases Is Required for Efficient Cell Cycle Progression. <i>Plant Physiology</i> , 2017, 173, 582-599.	2.3	44
120	PP2A-3 interacts with ACR4 and regulates formative cell division in the <i>Arabidopsis</i> root. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1447-1452.	3.3	43
121	Differences in dichogamy and herkogamy contribute to higher selfing in contrasting environments in the annual <i>Blackstonia perfoliata</i> (Gentianaceae). <i>Annals of Botany</i> , 2013, 111, 651-661.	1.4	41
122	The dynamic nature and regulation of the root clock. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	41
123	Auxin regulation of cell cycle and its role during lateral root initiation. <i>Physiologia Plantarum</i> , 2005, 123, 139-146.	2.6	40
124	GOLVEN peptide signalling through RGI receptors and MPK6 restricts asymmetric cell division during lateral root initiation. <i>Nature Plants</i> , 2020, 6, 533-543.	4.7	39
125	Auxin-Regulated Reversible Inhibition of TMK1 Signaling by MAK2 Modulates the Dynamics of Root Gravitropism. <i>Current Biology</i> , 2021, 31, 228-237.e10.	1.8	39
126	GOLVEN peptides as important regulatory signalling molecules of plant development. <i>Journal of Experimental Botany</i> , 2013, 64, 5263-5268.	2.4	38

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127	Repression of early lateral root initiation events by transient water deficit in barley and maize. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 1534-1541.	1.8	36
128	Adventitious Root Induction in <i>Arabidopsis thaliana</i> as a Model for In Vitro Root Organogenesis. <i>Methods in Molecular Biology</i> , 2013, 959, 159-175.	0.4	35
129	Calcium is an organizer of cell polarity in plants. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 2168-2172.	1.9	35
130	The CEP5 Peptide Promotes Abiotic Stress Tolerance, As Revealed by Quantitative Proteomics, and Attenuates the AUX/IAA Equilibrium in <i>Arabidopsis</i> . <i>Molecular and Cellular Proteomics</i> , 2020, 19, 1248-1262.	2.5	35
131	A reflux-and-growth mechanism explains oscillatory patterning of lateral root branching sites. <i>Developmental Cell</i> , 2021, 56, 2176-2191.e10.	3.1	35
132	Pharmacological Strategies for Manipulating Plant Ca ²⁺ Signalling. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1506.	1.8	34
133	Pericycle. <i>Current Biology</i> , 2014, 24, R378-R379.	1.8	32
134	Rice plants respond to ammonium stress by adopting a helical root growth pattern. <i>Plant Journal</i> , 2020, 104, 1023-1037.	2.8	31
135	Gene silencing induced by hairpin or inverted repeated sense transgenes varies among promoters and cell types. <i>New Phytologist</i> , 2009, 184, 851-864.	3.5	30
136	ABA represses TOR and root meristem activity through nuclear exit of the SnRK1 kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	29
137	<i>In silico</i> analyses of pericycle cell populations reinforce their relation with associated vasculature in <i>Arabidopsis</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 1479-1488.	1.8	27
138	Alteration in Auxin Homeostasis and Signaling by Overexpression Of PINOID Kinase Causes Leaf Growth Defects in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 1009.	1.7	27
139	Lateral root formation and nutrients: nitrogen in the spotlight. <i>Plant Physiology</i> , 2021, 187, 1104-1116.	2.3	27
140	Seedling developmental defects upon blocking CINNAMATE 4-HYDROXYLASE are caused by perturbations in auxin transport. <i>New Phytologist</i> , 2021, 230, 2275-2291.	3.5	27
141	Periodic root branching is influenced by light through an HY1-HY5-auxin pathway. <i>Current Biology</i> , 2021, 31, 3834-3847.e5.	1.8	27
142	Phenotypic alterations in <i>Arabidopsis thaliana</i> plants caused by <i>Rhodococcus fascians</i> infection. <i>Journal of Plant Research</i> , 2004, 117, 139-145.	1.2	26
143	Cyclin-dependent kinase activity retains the shoot apical meristem cells in an undifferentiated state. <i>Plant Journal</i> , 2010, 64, no-no.	2.8	26
144	Auxin Function in the Brown Alga <i>Dictyota dichotoma</i> . <i>Plant Physiology</i> , 2019, 179, 280-299.	2.3	24

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145	Aurora Kinases Throughout Plant Development. Trends in Plant Science, 2016, 21, 69-79.	4.3	23
146	Ethylene-Mediated Regulation of A2-Type CYCLINs Modulates Hyponastic Growth in Arabidopsis. Plant Physiology, 2015, 169, 194-208.	2.3	22
147	Exploiting natural variation in root system architecture via genome-wide association studies. Journal of Experimental Botany, 2020, 71, 2379-2389.	2.4	21
148	Redundant and non-redundant roles of the trehalose-6-phosphate phosphatases in leaf growth, root hair specification and energy-responses in Arabidopsis. Plant Signaling and Behavior, 2013, 8, e23209.	1.2	20
149	Abiotic regulation of growth and fertility in the sporophyte of Dictyota dichotoma (Hudson) J.V. Lamouroux (Dictyotales, Phaeophyceae). Journal of Applied Phycology, 2016, 28, 2915-2924.	1.5	20
150	Peptide-Receptor Signaling Controls Lateral Root Development. Plant Physiology, 2020, 182, 1645-1656.	2.3	20
151	Modulation of Arabidopsis root growth by specialized triterpenes. New Phytologist, 2021, 230, 228-243.	3.5	20
152	Cadmium stress suppresses lateral root formation by interfering with the root clock. Plant, Cell and Environment, 2019, 42, 3182-3196.	2.8	18
153	Identification of Novel Inhibitors of Auxin-Induced Ca ²⁺ Signaling via a Plant-Based Chemical Screen. Plant Physiology, 2019, 180, 480-496.	2.3	18
154	CYCLIC NUCLEOTIDE-GATED ION CHANNEL 2 modulates auxin homeostasis and signaling. Plant Physiology, 2021, 187, 1690-1703.	2.3	18
155	Small-Molecule Screens to Study Lateral Root Development. Methods in Molecular Biology, 2013, 959, 189-195.	0.4	18
156	Increased leakiness of the tetracycline-inducible TripleOp promoter in dividing cells renders it unsuitable for high inducible levels of a dominant negative CDC2aAt gene. Journal of Experimental Botany, 2000, 51, 1647-1653.	2.4	17
157	Nitrate Contra Auxin: Nutrient Sensing by Roots. Developmental Cell, 2010, 18, 877-878.	3.1	16
158	Synthetic molecules: helping to unravel plant signal transduction. Journal of Chemical Biology, 2013, 6, 43-50.	2.2	16
159	PHR1 Balances between Nutrition and Immunity in Plants. Developmental Cell, 2017, 41, 5-7.	3.1	16
160	TPX2-LIKE PROTEIN3 Is the Primary Activator of Î±-Aurora Kinases and Is Essential for Embryogenesis. Plant Physiology, 2019, 180, 1389-1405.	2.3	16
161	Dissecting cholesterol and phytosterol biosynthesis via mutants and inhibitors. Journal of Experimental Botany, 2021, 72, 241-253.	2.4	16
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