

# Dolf Weijers

## List of Publications by Year in descending order

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137  
papers

17,022  
citations

19655

61  
h-index

16650

123  
g-index

166  
all docs

166  
docs citations

166  
times ranked

11833  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efflux-dependent auxin gradients establish the apical-basal axis of Arabidopsis. <i>Nature</i> , 2003, 426, 147-153.	27.8	1,672
2	Plant Development Is Regulated by a Family of Auxin Receptor F Box Proteins. <i>Developmental Cell</i> , 2005, 9, 109-119.	7.0	865
3	A PINOID-Dependent Binary Switch in Apical-Basal PIN Polar Targeting Directs Auxin Efflux. <i>Science</i> , 2004, 306, 862-865.	12.6	703
4	Antagonistic Regulation of PIN Phosphorylation by PP2A and PINOID Directs Auxin Flux. <i>Cell</i> , 2007, 130, 1044-1056.	28.9	590
5	MONOPTEROS controls embryonic root initiation by regulating a mobile transcription factor. <i>Nature</i> , 2010, 464, 913-916.	27.8	532
6	miR390, Arabidopsis TAS3 tasiRNAs, and Their AUXIN RESPONSE FACTOR Targets Define an Autoregulatory Network Quantitatively Regulating Lateral Root Growth. <i>Plant Cell</i> , 2010, 22, 1104-1117.	6.6	512
7	Cytokinins Act Directly on Lateral Root Founder Cells to Inhibit Root Initiation. <i>Plant Cell</i> , 2008, 19, 3889-3900.	6.6	498
8	A Novel Aux/IAA28 Signaling Cascade Activates GATA23-Dependent Specification of Lateral Root Founder Cell Identity. <i>Current Biology</i> , 2010, 20, 1697-1706.	3.9	431
9	The PINOID protein kinase regulates organ development in Arabidopsis by enhancing polar auxin transport. <i>Development (Cambridge)</i> , 2001, 128, 4057-4067.	2.5	408
10	Transcriptional Responses to the Auxin Hormone. <i>Annual Review of Plant Biology</i> , 2016, 67, 539-574.	18.7	396
11	Reporters for sensitive and quantitative measurement of auxin response. <i>Nature Methods</i> , 2015, 12, 207-210.	19.0	382
12	A Mutually Inhibitory Interaction between Auxin and Cytokinin Specifies Vascular Pattern in Roots. <i>Current Biology</i> , 2011, 21, 917-926.	3.9	359
13	Developmental specificity of auxin response by pairs of ARF and Aux/IAA transcriptional regulators. <i>EMBO Journal</i> , 2005, 24, 1874-1885.	7.8	349
14	Structural Basis for DNA Binding Specificity by the Auxin-Dependent ARF Transcription Factors. <i>Cell</i> , 2014, 156, 577-589.	28.9	348
15	Organizer-Derived WOX5 Signal Maintains Root Columella Stem Cells through Chromatin-Mediated Repression of CDF4 Expression. <i>Developmental Cell</i> , 2015, 33, 576-588.	7.0	311
16	Auxin Triggers Transient Local Signaling for Cell Specification in Arabidopsis Embryogenesis. <i>Developmental Cell</i> , 2006, 10, 265-270.	7.0	303
17	Integration of growth and patterning during vascular tissue formation in Arabidopsis. <i>Science</i> , 2014, 345, 1255-1261.	12.6	286
18	Bimodular auxin response controls organogenesis in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2705-2710.	7.1	271

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19	A bHLH Complex Controls Embryonic Vascular Tissue Establishment and Indeterminate Growth in Arabidopsis. <i>Developmental Cell</i> , 2013, 24, 426-437.	7.0	269
20	An <i>Arabidopsis</i> Minute-like phenotype caused by a semi-dominant mutation in a RIBOSOMAL PROTEIN S5 gene. <i>Development (Cambridge)</i> , 2001, 128, 4289-4299.	2.5	267
21	<i>R</i> ideogram: drawing SVG graphics to visualize and map genome-wide data on the idiograms. <i>PeerJ Computer Science</i> , 2020, 6, e251.	4.5	265
22	Auxin Control of Embryo Patterning. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009, 1, a001545-a001545.	5.5	228
23	<i>Anthoceros</i> genomes illuminate the origin of land plants and the unique biology of hornworts. <i>Nature Plants</i> , 2020, 6, 259-272.	9.3	225
24	Genetic Control of Plant Development by Overriding a Geometric Division Rule. <i>Developmental Cell</i> , 2014, 29, 75-87.	7.0	203
25	Plant vascular development: from early specification to differentiation. <i>Nature Reviews Molecular Cell Biology</i> , 2016, 17, 30-40.	37.0	195
26	Origin and evolution of the nuclear auxin response system. <i>ELife</i> , 2018, 7, .	6.0	195
27	A cellular expression map of the <i>Arabidopsis</i> AUXIN RESPONSE FACTOR gene family. <i>Plant Journal</i> , 2011, 68, 597-606.	5.7	192
28	Local Auxin Sources Orient the Apical-Basal Axis in <i>Arabidopsis</i> Embryos. <i>Current Biology</i> , 2013, 23, 2506-2512.	3.9	182
29	Building a plant: cell fate specification in the early <i>Arabidopsis</i> embryo. <i>Development (Cambridge)</i> , 2015, 142, 420-430.	2.5	179
30	Different Auxin Response Machineries Control Distinct Cell Fates in the Early Plant Embryo. <i>Developmental Cell</i> , 2012, 22, 211-222.	7.0	176
31	Evolution of Plant Hormone Response Pathways. <i>Annual Review of Plant Biology</i> , 2020, 71, 327-353.	18.7	169
32	Auxin Response Factors: output control in auxin biology. <i>Journal of Experimental Botany</i> , 2018, 69, 179-188.	4.8	158
33	Cyclophilin 40 is required for microRNA activity in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5424-5429.	7.1	156
34	<i>DORNROÏSCHEN</i> is a direct target of the auxin response factor MONOPTEROS in the <i>Arabidopsis</i> embryo. <i>Development (Cambridge)</i> , 2009, 136, 1643-1651.	2.5	145
35	Maintenance of Embryonic Auxin Distribution for Apical-Basal Patterning by PIN-FORMED-Dependent Auxin Transport in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2005, 17, 2517-2526.	6.6	135
36	Cell surface and intracellular auxin signalling for H <sup>+</sup> fluxes in root growth. <i>Nature</i> , 2021, 599, 273-277.	27.8	128

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37	A noncanonical auxin-sensing mechanism is required for organ morphogenesis in <i>Arabidopsis</i> . <i>Genes and Development</i> , 2016, 30, 2286-2296.	5.9	122
38	The AP-3 adaptor complex is required for vacuolar function in <i>Arabidopsis</i> . <i>Cell Research</i> , 2011, 21, 1711-1722.	12.0	114
39	Diphtheria Toxin-Mediated Cell Ablation Reveals Interregional Communication during <i>Arabidopsis</i> Seed Development. <i>Plant Physiology</i> , 2003, 133, 1882-1892.	4.8	113
40	A Versatile Set of Ligation-Independent Cloning Vectors for Functional Studies in Plants. <i>Plant Physiology</i> , 2011, 156, 1292-1299.	4.8	112
41	Cytokinin response factors regulate PIN-FORMED auxin transporters. <i>Nature Communications</i> , 2015, 6, 8717.	12.8	108
42	Mis-expression of the CLV3/ESR-like gene CLE19 in <i>Arabidopsis</i> leads to a consumption of root meristem. <i>Gene</i> , 2004, 327, 37-49.	2.2	107
43	Early paternal gene activity in <i>Arabidopsis</i> . <i>Nature</i> , 2001, 414, 709-710.	27.8	106
44	Auxin and embryo axis formation: the ends in sight?. <i>Current Opinion in Plant Biology</i> , 2005, 8, 32-37.	7.1	105
45	An integrative model of the control of ovule primordia formation. <i>Plant Journal</i> , 2013, 76, 446-455.	5.7	105
46	A PXY-Mediated Transcriptional Network Integrates Signaling Mechanisms to Control Vascular Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2020, 32, 319-335.	6.6	103
47	Q&A: Auxin: the plant molecule that influences almost anything. <i>BMC Biology</i> , 2016, 14, 67.	3.8	101
48	A bHLH-Based Feedback Loop Restricts Vascular Cell Proliferation in Plants. <i>Developmental Cell</i> , 2015, 35, 432-443.	7.0	96
49	Plant embryogenesis requires AUX/LAX-mediated auxin influx. <i>Development (Cambridge)</i> , 2015, 142, 702-11.	2.5	92
50	Multiple PPR protein interactions are involved in the RNA editing system in <i>Arabidopsis</i> mitochondria and plastids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8883-8888.	7.1	91
51	Boosting LPMO-driven lignocellulose degradation by polyphenol oxidase-activated lignin building blocks. <i>Biotechnology for Biofuels</i> , 2017, 10, 121.	6.2	86
52	Predicting gene regulatory networks by combining spatial and temporal gene expression data in <i>Arabidopsis</i> root stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7632-E7640.	7.1	82
53	Transcriptome dynamics revealed by a gene expression atlas of the early <i>Arabidopsis</i> embryo. <i>Nature Plants</i> , 2017, 3, 894-904.	9.3	77
54	Auxin: small molecule, big impact. <i>Journal of Experimental Botany</i> , 2018, 69, 133-136.	4.8	77

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55	The <sc>A</sc>rabadopsis embryo as a miniature morphogenesis model. <i>New Phytologist</i> , 2013, 199, 14-25.	7.3	76
56	Auxin response cell-autonomously controls ground tissue initiation in the early <i>Arabidopsis</i> embryo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2533-E2539.	7.1	74
57	Tissue and Organ Initiation in the Plant Embryo: A First Time for Everything. <i>Annual Review of Cell and Developmental Biology</i> , 2016, 32, 47-75.	9.4	73
58	The role of auxin signaling in early embryo pattern formation. <i>Current Opinion in Plant Biology</i> , 2015, 28, 99-105.	7.1	71
59	A SOSEKI-based coordinate system interprets global polarity cues in <i>Arabidopsis</i> . <i>Nature Plants</i> , 2019, 5, 160-166.	9.3	71
60	Design principles of a minimal auxin response system. <i>Nature Plants</i> , 2020, 6, 473-482.	9.3	71
61	Funneling auxin action: specificity in signal transduction. <i>Current Opinion in Plant Biology</i> , 2004, 7, 687-693.	7.1	69
62	A roadmap to embryo identity in plants. <i>Trends in Plant Science</i> , 2014, 19, 709-716.	8.8	68
63	<i>AXL</i> and <i>AXR1</i> have redundant functions in RUB conjugation and growth and development in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2007, 52, 114-123.	5.7	65
64	Auxin enters the matrixâ€”assembly of response machineries for specific outputs. <i>Current Opinion in Plant Biology</i> , 2009, 12, 520-526.	7.1	64
65	Plant transcription factors â€” being in the right place with the right company. <i>Current Opinion in Plant Biology</i> , 2022, 65, 102136.	7.1	63
66	In Vivo Identification of Plant Protein Complexes Using IP-MS/MS. <i>Methods in Molecular Biology</i> , 2017, 1497, 147-158.	0.9	62
67	Tightly controlled WRKY23 expression mediates <i>Arabidopsis</i> embryo development. <i>EMBO Reports</i> , 2013, 14, 1136-1142.	4.5	61
68	Quiescent center initiation in the <i>Arabidopsis</i> lateral root primordia is dependent on the <i>SCARECROW</i> transcription factor. <i>Development (Cambridge)</i> , 2016, 143, 3363-71.	2.5	61
69	A Plausible Microtubule-Based Mechanism for Cell Division Orientation in Plant Embryogenesis. <i>Current Biology</i> , 2018, 28, 3031-3043.e2.	3.9	57
70	The Transcriptional Landscape of Polyploid Wheats and Their Diploid Ancestors during Embryogenesis and Grain Development. <i>Plant Cell</i> , 2019, 31, 2888-2911.	6.6	57
71	DIX Domain Polymerization Drives Assembly of Plant Cell Polarity Complexes. <i>Cell</i> , 2020, 180, 427-439.e12.	28.9	54
72	Evolution of nuclear auxin signaling: lessons from genetic studies with basal land plants. <i>Journal of Experimental Botany</i> , 2018, 69, 291-301.	4.8	53

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73	Architecture of DNA elements mediating ARF transcription factor binding and auxin-responsive gene expression in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24557-24566.	7.1	53
74	Green Beginnings – Pattern Formation in the Early Plant Embryo. <i>Current Topics in Developmental Biology</i> , 2010, 91, 1-27.	2.2	46
75	The anaphase-promoting complex initiates zygote division in <i>Arabidopsis</i> through degradation of cyclin B1. <i>Plant Journal</i> , 2016, 86, 161-174.	5.7	46
76	Framework for gradual progression of cell ontogeny in the <i>Arabidopsis</i> root meristem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8922-E8929.	7.1	46
77	Complete microviscosity maps of living plant cells and tissues with a toolbox of targeting mechanoprobes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18110-18118.	7.1	46
78	Diversity of cis-regulatory elements associated with auxin response in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2018, 69, 329-339.	4.8	45
79	SnapShot: Auxin Signaling and Transport. <i>Cell</i> , 2009, 136, 1172-1172.e1.	28.9	44
80	The developmental and environmental regulation of gravitropic setpoint angle in <i>Arabidopsis</i> and bean. <i>Scientific Reports</i> , 2017, 7, 42664.	3.3	44
81	Rice microtubule-associated protein IQ67-DOMAIN14 regulates grain shape by modulating microtubule cytoskeleton dynamics. <i>Plant Biotechnology Journal</i> , 2020, 18, 1141-1152.	8.3	43
82	Transcriptomics approaches in the early <i>Arabidopsis</i> embryo. <i>Trends in Plant Science</i> , 2013, 18, 514-521.	8.8	42
83	Omics and modelling approaches for understanding regulation of asymmetric cell divisions in <i>Arabidopsis</i> and other angiosperm plants. <i>Annals of Botany</i> , 2014, 113, 1083-1105.	2.9	38
84	Apical-basal polarity: why plant cells don't stand on their heads. <i>Trends in Plant Science</i> , 2006, 11, 12-14.	8.8	37
85	A Robust Auxin Response Network Controls Embryo and Suspensor Development through a Basic Helix Loop Helix Transcriptional Module. <i>Plant Cell</i> , 2019, 31, 52-67.	6.6	37
86	Transcriptional repression of BODENLOS by HD-ZIP transcription factor HB5 in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2013, 64, 3009-3019.	4.8	35
87	Theoretical approaches to understanding root vascular patterning: a consensus between recent models. <i>Journal of Experimental Botany</i> , 2017, 68, 5-16.	4.8	35
88	Control of embryonic meristem initiation in <i>Arabidopsis</i> by PHD-finger protein complexes. <i>Development (Cambridge)</i> , 2012, 139, 1391-1398.	2.5	34
89	Evolution, Initiation, and Diversity in Early Plant Embryogenesis. <i>Developmental Cell</i> , 2019, 50, 533-543.	7.0	34
90	Plant embryogenesis. <i>Current Biology</i> , 2017, 27, R870-R873.	3.9	32

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91	Pole position: How plant cells polarize along the axes. <i>Plant Cell</i> , 2022, 34, 174-192.	6.6	32
92	Centering the Organizing Center in the <i>Arabidopsis thaliana</i> Shoot Apical Meristem by a Combination of Cytokinin Signaling and Self-Organization. <i>PLoS ONE</i> , 2016, 11, e0147830.	2.5	28
93	Two-Component Nanoparticle Vaccine Displaying Glycosylated Spike S1 Domain Induces Neutralizing Antibody Response against SARS-CoV-2 Variants. <i>MBio</i> , 2021, 12, e0181321.	4.1	28
94	A toolkit for studying cellular reorganization during early embryogenesis in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2018, 93, 963-976.	5.7	26
95	Specification and regulation of vascular tissue identity in the <i>Arabidopsis</i> embryo. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	24
96	Auxin-dependent control of cytoskeleton and cell shape regulates division orientation in the <i>Arabidopsis</i> embryo. <i>Current Biology</i> , 2021, 31, 4946-4955.e4.	3.9	24
97	Molecular characterization of <i>Arabidopsis</i> GAL4/UAS enhancer trap lines identifies novel cell type-specific promoters. <i>Plant Physiology</i> , 2016, 171, pp.00213.2016.	4.8	23
98	Prenatal plumbing of vascular tissue formation in the plant embryo. <i>Physiologia Plantarum</i> , 2014, 151, 126-133.	5.2	22
99	Auxin responsiveness of the MONOPTEROS-BODENLOS module in primary root initiation critically depends on the nuclear import kinetics of the Aux/IAA inhibitor BODENLOS. <i>Plant Journal</i> , 2016, 85, 269-277.	5.7	22
100	RIMA-Dependent Nuclear Accumulation of IYO Triggers Auxin-Irreversible Cell Differentiation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2017, 29, 575-588.	6.6	22
101	Alternative Splicing Generates a MONOPTEROS Isoform Required for Ovule Development. <i>Current Biology</i> , 2021, 31, 892-899.e3.	3.9	22
102	Conserved, divergent and heterochronic gene expression during <i>Brachypodium</i> and <i>Arabidopsis</i> embryo development. <i>Plant Reproduction</i> , 2021, 34, 207-224.	2.2	22
103	POPCORN Functions in the Auxin Pathway to Regulate Embryonic Body Plan and Meristem Organization in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 4348-4367.	6.6	21
104	Evolution of vascular plants through redeployment of ancient developmental regulators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 733-740.	7.1	21
105	Plant cell polarity as the nexus of tissue mechanics and morphogenesis. <i>Nature Plants</i> , 2021, 7, 1548-1559.	9.3	21
106	Imaging of Phenotypes, Gene Expression, and Protein Localization During Embryonic Root Formation in <i>Arabidopsis</i> . <i>Methods in Molecular Biology</i> , 2013, 959, 137-148.	0.9	20
107	Auxin Regulation of Embryonic Root Formation. <i>Plant and Cell Physiology</i> , 2013, 54, 325-332.	3.1	16
108	A set of domain-specific markers in the <i>Arabidopsis</i> embryo. <i>Plant Reproduction</i> , 2015, 28, 153-160.	2.2	16

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109	Regulation of intercellular TARGET OF MONOPTEROS 7 protein transport in the <i>Arabidopsis</i> root. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	16
110	Adapting INTACT to analyse cell-type-specific transcriptomes and nucleocytoplasmic mRNA dynamics in the <i>Arabidopsis</i> embryo. <i>Plant Reproduction</i> , 2019, 32, 113-121.	2.2	16
111	Ligation-Independent Cloning for Plant Research. <i>Methods in Molecular Biology</i> , 2015, 1284, 421-431.	0.9	14
112	Deep Evolutionary History of the Phox and Bem1 (PB1) Domain Across Eukaryotes. <i>Scientific Reports</i> , 2020, 10, 3797.	3.3	13
113	Control of oriented cell division in the <i>Arabidopsis</i> embryo. <i>Current Opinion in Plant Biology</i> , 2015, 23, 25-30.	7.1	12
114	FRET-FLIM for Visualizing and Quantifying Protein Interactions in Live Plant Cells. <i>Methods in Molecular Biology</i> , 2017, 1497, 135-146.	0.9	12
115	Suspensor-derived somatic embryogenesis in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2020, 147, .	2.5	8
116	Plant Organogenesis: Rules of Order. <i>Current Biology</i> , 2016, 26, R157-R159.	3.9	7
117	A rich and bountiful harvest: Key discoveries in plant cell biology. <i>Plant Cell</i> , 2022, 34, 53-71.	6.6	7
118	A Female Identity Switch Helps Keep Only One Egg in the Basket. <i>Developmental Cell</i> , 2016, 37, 5-6.	7.0	5
119	The <i>Arabidopsis</i> embryo as a quantifiable model for studying pattern formation. <i>Quantitative Plant Biology</i> , 2021, 2, .	2.0	5
120	Auxin Response by the Numbers. <i>Trends in Plant Science</i> , 2021, 26, 442-451.	8.8	5
121	Flowering plant embryos: How did we end up here?. <i>Plant Reproduction</i> , 2021, 34, 365-371.	2.2	5
122	Genetic control of identity and growth in the early <i>Arabidopsis</i> embryo. <i>Biochemical Society Transactions</i> , 2014, 42, 346-351.	3.4	4
123	High-resolution and Deep Phylogenetic Reconstruction of Ancestral States from Large Transcriptomic Data Sets. <i>Bio-protocol</i> , 2020, 10, e3566.	0.4	4
124	Highly Specific Protein Identification by Immunoprecipitationâ€“Mass Spectrometry Using Antifouling Microbeads. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 23102-23116.	8.0	4
125	Cell Type-Specific Transcriptomics in the Plant Embryo Using an Adapted INTACT Protocol. <i>Methods in Molecular Biology</i> , 2020, 2122, 141-150.	0.9	2
126	Note from Editor-in-Chief. <i>Plant Reproduction</i> , 2013, 26, 63-63.	2.2	1



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127	Message from the new Editor-in-Chief. <i>Plant Reproduction</i> , 2013, 26, 1-1.	2.2	1
128	Auxin: Harnessing a loose cannon. <i>Nature Plants</i> , 2015, 1, 15024.	9.3	1
129	Phyllotaxis: A Matthew Effect in Auxin Action. <i>Current Biology</i> , 2016, 26, R1233-R1235.	3.9	1
130	Assorted Pastries at the South Pole. <i>Developmental Cell</i> , 2020, 52, 137-138.	7.0	1
131	Probing DNA •Transcription Factor Interactions Using Single•Molecule Fluorescence Detection in Nanofluidic Devices. <i>Advanced Biology</i> , 2022, 6, e2100953.	2.5	1
132	Quiescent center initiation in the Arabidopsis lateral root primordia is dependent on the SCARECROW transcription factor. <i>Journal of Cell Science</i> , 2016, 129, e1.2-e1.2.	2.0	1
133	Analyzing Subcellular Reorganization During Early Arabidopsis Embryogenesis Using Fluorescent Markers. <i>Methods in Molecular Biology</i> , 2020, 2122, 49-61.	0.9	1
134	Back to the roots: A focus on plant cell biology. <i>Plant Cell</i> , 2022, 34, 1-3.	6.6	1
135	Editorial overview: Growth and development: Signals and communication in plant pluripotency, differentiation and growth. <i>Current Opinion in Plant Biology</i> , 2016, 29, v-ix.	7.1	0
136	Cell-Type-Specific Promoter Identification Using Enhancer Trap Lines. <i>Methods in Molecular Biology</i> , 2018, 1830, 127-139.	0.9	0
137	Quantitative analysis of 3D cellular geometry and modelling of the Arabidopsis embryo. <i>Journal of Microscopy</i> , 0, , .	1.8	0