Bert De Rybel

List of Publications by Year
in descending order

63 papers	7,348 citations	76326 40 h-index	114465 63 g-index
76 all docs	76 docs citations	76 times ranked	7079 citing authors

#	Article	IF	Citations
1	Advancing root developmental research through single-cell technologies. Current Opinion in Plant Biology, 2022, 65, 102113.	7.1	10
2	Means to Quantify Vascular Cell File Numbers in Different Tissues. Methods in Molecular Biology, 2022, 2382, 155-179.	0.9	4
3	Molecular architecture of the endocytic TPLATE complex. Science Advances, 2021, 7, .	10.3	31
4	Conditional destabilization of the TPLATE complex impairs endocytic internalization. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
5	Seedling developmental defects upon blocking CINNAMATEâ€4â€HYDROXYLASE are caused by perturbations in auxin transport. New Phytologist, 2021, 230, 2275-2291.	7.3	27
6	AGC kinases and MAB4/MEL proteins maintain PIN polarity by limiting lateral diffusion in plant cells. Current Biology, 2021, 31, 1918-1930.e5.	3.9	28
7	Advances and Opportunities in Single-Cell Transcriptomics for Plant Research. Annual Review of Plant Biology, 2021, 72, 847-866.	18.7	101
8	A single-cell morpho-transcriptomic map of brassinosteroid action in the Arabidopsis root. Molecular Plant, 2021, 14, 1985-1999.	8.3	40
9	Cell surface and intracellular auxin signalling for H+ fluxes in root growth. Nature, 2021, 599, 273-277.	27.8	128
10	Determination of Genetic Distance, Genome Size and Chromosome Numbers to Support Breeding in Ornamental Lavandula Species. Agronomy, 2021, 11, 2173.	3.0	8
11	Non-cell autonomous and spatiotemporal signalling from a tissue organizer orchestrates root vascular development. Nature Plants, 2021, 7, 1485-1494.	9.3	42
12	Cell-by-cell dissection of phloem development links a maturation gradient to cell specialization. Science, 2021, 374, eaba5531.	12.6	60
13	Rice microtubuleâ€associated protein IQ67â€DOMAIN14 regulates grain shape by modulating microtubule cytoskeleton dynamics. Plant Biotechnology Journal, 2020, 18, 1141-1152.	8.3	43
14	Evolution of vascular plants through redeployment of ancient developmental regulators. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 733-740.	7.1	21
15	Receptor kinase module targets PIN-dependent auxin transport during canalization. Science, 2020, 370, 550-557.	12.6	56
16	Vascular transcription factors guide plant epidermal responses to limiting phosphate conditions. Science, 2020, 370, .	12.6	173
17	DOF2.1 Controls Cytokinin-Dependent Vascular Cell Proliferation Downstream of TMO5/LHW. Current Biology, 2019, 29, 520-529.e6.	3.9	80
18	Cytokinin â€“ A Developing Story. Trends in Plant Science, 2019, 24, 177-185.	8.8	150

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19	Mobile PEAR transcription factors integrate positional cues to prime cambial growth. Nature, 2019, 565, 490-494.	27.8	195
20	Arabidopsis RCD1 coordinates chloroplast and mitochondrial functions through interaction with ANAC transcription factors. ELife, 2019, 8, .	6.0	118
21	Regulation of intercellular TARGET OF MONOPTEROS 7 protein transport in the <i>Arabidopsis</i> root. Development (Cambridge), 2018, 145, .	2.5	16
22	Diffusible repression of cytokinin signalling produces endodermal symmetry and passage cells. Nature, 2018, 555, 529-533.	27.8	106
23	Multi-Parametric Screening in Arabidopsis thaliana Seedlings. Methods in Molecular Biology, 2018, 1795, 1-7.	0.9	0
24	Recent Trends in Plant Protein Complex Analysis in a Developmental Context. Frontiers in Plant Science, 2018, 9, 640.	3.6	32
25	RIMA-Dependent Nuclear Accumulation of IYO Triggers Auxin-Irreversible Cell Differentiation in Arabidopsis. Plant Cell, 2017, 29, 575-588.	6.6	22
26	Framework for gradual progression of cell ontogeny in the <i>Arabidopsis</i> root meristem. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8922-E8929.	7.1	46
27	Multiple PPR protein interactions are involved in the RNA editing system in <i>Arabidopsis</i> mitochondria and plastids. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8883-8888.	7.1	91
28	Theoretical approaches to understanding root vascular patterning: a consensus between recent models. Journal of Experimental Botany, 2017, 68, 5-16.	4.8	35
29	FRET-FLIM for Visualizing and Quantifying Protein Interactions in Live Plant Cells. Methods in Molecular Biology, 2017, 1497, 135-146.	0.9	12
30	In Vivo Identification of Plant Protein Complexes Using IP-MS/MS. Methods in Molecular Biology, 2017, 1497, 147-158.	0.9	62
31	CEP5 and XIP1/CEPR1 regulate lateral root initiation in Arabidopsis. Journal of Experimental Botany, 2016, 67, 4889-4899.	4.8	81
32	Cyclic programmed cell death stimulates hormone signaling and root development in <i>Arabidopsis</i>. Science, 2016, 351, 384-387.	12.6	186
33	Genetic and hormonal control of vascular tissue proliferation. Current Opinion in Plant Biology, 2016, 29, 50-56.	7.1	27
34	Plant vascular development: from early specification to differentiation. Nature Reviews Molecular Cell Biology, 2016, 17, 30-40.	37.0	195
35	Root Cap-Derived Auxin Pre-patterns the Longitudinal Axis of the Arabidopsis Root. Current Biology, 2015, 25, 1381-1388.	3.9	173
36	A set of domain-specific markers in the Arabidopsis embryo. Plant Reproduction, 2015, 28, 153-160.	2.2	16

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37	A bHLH-Based Feedback Loop Restricts Vascular Cell Proliferation in Plants. Developmental Cell, 2015, 35, 432-443.	7.0	96
38	Ligation-Independent Cloning for Plant Research. Methods in Molecular Biology, 2015, 1284, 421-431.	0.9	14
39	The Emerging Role of Reactive Oxygen Species Signaling during Lateral Root Development. Plant Physiology, 2014, 165, 1105-1119.	4.8	121
40	Prenatal plumbingâ€”vascular tissue formation in the plant embryo. Physiologia Plantarum, 2014, 151, 126-133.	5.2	22
41	<i>Arabidopsis</i> NAC45/86 direct sieve element morphogenesis culminating in enucleation. Science, 2014, 345, 933-937.	12.6	173
42	Integration of growth and patterning during vascular tissue formation in <i>Arabidopsis</i>. Science, 2014, 345, 1255215.	12.6	286
43	Tightly controlled WRKY23 expression mediates Arabidopsis embryo development. EMBO Reports, 2013, 14, 1136-1142.	4.5	61
44	The CEP family in land plants: evolutionary analyses, expression studies, and role in Arabidopsis shoot development. Journal of Experimental Botany, 2013, 64, 5371-5381.	4.8	92
45	A bHLH Complex Controls Embryonic Vascular Tissue Establishment and Indeterminate Growth in Arabidopsis. Developmental Cell, 2013, 24, 426-437.	7.0	269
46	Imaging of Phenotypes, Gene Expression, and Protein Localization During Embryonic Root Formation in Arabidopsis. Methods in Molecular Biology, 2013, 959, 137-148.	0.9	20
47	A role for the root cap in root branching revealed by the non-auxin probe naxillin. Nature Chemical Biology, 2012, 8, 798-805.	8.0	118
48	Transcription factor WRKY23 assists auxin distribution patterns during <i>Arabidopsis</i> 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.	7.1	184
49	Auxin and Epigenetic Regulation of <i>SKP2B</i>, an F-Box That Represses Lateral Root Formation Â Â Â. Plant Physiology, 2012, 160, 749-762.	4.8	74
50	Auxin reflux between the endodermis and pericycle promotes lateral root initiation. EMBO Journal, 2012, 32, 149-158.	7.8	148
51	SCFTIR1/AFB-auxin signalling regulates PIN vacuolar trafficking and auxin fluxes during root gravitropism. EMBO Journal, 2012, 32, 260-274.	7.8	152
52	<i>Arabidopsis</i>Î± Aurora Kinases Function in Formative Cell Division Plane Orientation. Plant Cell, 2011, 23, 4013-4024.	6.6	97
53	Developmental regulation of CYCA2s contributes to tissue-specific proliferation in<i>Arabidopsis</i>. EMBO Journal, 2011, 30, 3430-3441.	7.8	113
54	A novel protein family mediates Casparian strip formation in the endodermis. Nature, 2011, 473, 380-383.	27.8	353

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55	A Versatile Set of Ligation-Independent Cloning Vectors for Functional Studies in Plants Â Â Â. Plant Physiology, 2011, 156, 1292-1299.	4.8	112
56	A Novel Aux/IAA28 Signaling Cascade Activates GATA23-Dependent Specification of Lateral Root Founder Cell Identity. Current Biology, 2010, 20, 1697-1706.	3.9	431
57	VisuaLRTC: A New View on Lateral Root Initiation by Combining Specific Transcriptome Data Sets Â. Plant Physiology, 2010, 153, 34-40.	4.8	56
58	Bimodular auxin response controls organogenesis in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2705-2710.	7.1	271
59	Chemical Inhibition of a Subset of Arabidopsis thaliana GSK3-like Kinases Activates Brassinosteroid Signaling. Chemistry and Biology, 2009, 16, 594-604.	6.0	240
60	The Past, Present, and Future of Chemical Biology in Auxin Research. ACS Chemical Biology, 2009, 4, 987-998.	3.4	60
61	Arabidopsis lateral root development: an emerging story. Trends in Plant Science, 2009, 14, 399-408.	8.8	681
62	Receptor-Like Kinase ACR4 Restricts Formative Cell Divisions in the <i>Arabidopsis</i> Root. Science, 2008, 322, 594-597.	12.6	342
63	Cell Cycle Progression in the Pericycle Is Not Sufficient for SOLITARY ROOT/IAA14-Mediated Lateral Root Initiation in Arabidopsis thaliana Â. Plant Cell, 2005, 17, 3035-3050.	6.6	309