

Steffen Vanneste

List of Publications by Year in descending order

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78
papers

11,797
citations

57758

44
h-index

71685

76
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114
all docs

114
docs citations

114
times ranked

9460
citing authors

#	ARTICLE	IF	CITATIONS
1	Auxin analog-induced Ca ²⁺ signaling is independent of inhibition of endosomal aggregation in Arabidopsis roots. <i>Journal of Experimental Botany</i> , 2022, , .	4.8	4
2	Chemical Perturbation of Chloroplast Ca ²⁺ Dynamics in Arabidopsis thaliana Suspension Cell Cultures and Seedlings. <i>Methods in Molecular Biology</i> , 2022, 2494, 149-158.	0.9	1
3	Genetic Dissection of Light-Regulated Adventitious Root Induction in Arabidopsis thaliana Hypocotyls. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5301.	4.1	4
4	Auxin-Regulated Reversible Inhibition of TMK1 Signaling by MAKR2 Modulates the Dynamics of Root Gravitropism. <i>Current Biology</i> , 2021, 31, 228-237.e10.	3.9	39
5	Modulation of <i>Arabidopsis</i> root growth by specialized triterpenes. <i>New Phytologist</i> , 2021, 230, 228-243.	7.3	20
6	Dissecting cholesterol and phytosterol biosynthesis via mutants and inhibitors. <i>Journal of Experimental Botany</i> , 2021, 72, 241-253.	4.8	16
7	Systematic analysis of specific and nonspecific auxin effects on endocytosis and trafficking. <i>Plant Physiology</i> , 2021, 186, 1122-1142.	4.8	33
8	Review: Membrane tethers control plasmodesmal function and formation. <i>Plant Science</i> , 2021, 304, 110800.	3.6	4
9	The mechanism of auxin transport in lateral root spacing. <i>Molecular Plant</i> , 2021, 14, 708-710.	8.3	7
10	Synaptotagmins at the endoplasmic reticulum-plasma membrane contact sites maintain diacylglycerol homeostasis during abiotic stress. <i>Plant Cell</i> , 2021, 33, 2431-2453.	6.6	41
11	CYCLIC NUCLEOTIDE-GATED ION CHANNEL 2 modulates auxin homeostasis and signaling. <i>Plant Physiology</i> , 2021, 187, 1690-1703.	4.8	18
12	Arabidopsis Hypocotyl Adventitious Root Formation Is Suppressed by ABA Signaling. <i>Genes</i> , 2021, 12, 1141.	2.4	13
13	Illuminating the hidden world of calcium ions in plants with a universe of indicators. <i>Plant Physiology</i> , 2021, 187, 550-571.	4.8	37
14	The for Novel Inhibitors of Auxin-Induced Ca ²⁺ Signaling. <i>Methods in Molecular Biology</i> , 2021, 2213, 89-98.	0.9	1
15	Cell surface and intracellular auxin signalling for H ⁺ fluxes in root growth. <i>Nature</i> , 2021, 599, 273-277.	27.8	128
16	Pericyclic versus Endodermal Lateral Roots: Which Came First?. <i>Trends in Plant Science</i> , 2020, 25, 727-729.	8.8	2
17	The CEP5 Peptide Promotes Abiotic Stress Tolerance, As Revealed by Quantitative Proteomics, and Attenuates the AUX/IAA Equilibrium in Arabidopsis. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 1248-1262.	3.8	35
18	Rare earth elements induce cytoskeleton-dependent and PI4P-associated rearrangement of SYT1/SYT5 endoplasmic reticulum-plasma membrane contact site complexes in Arabidopsis. <i>Journal of Experimental Botany</i> , 2020, 71, 3986-3998.	4.8	34

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19	A conserved but plant-specific CDK-mediated regulation of DNA replication protein A2 in the precise control of stomatal terminal division. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18126-18131.	7.1	16
20	Molecular and Environmental Regulation of Root Development. <i>Annual Review of Plant Biology</i> , 2019, 70, 465-488.	18.7	224
21	Identification of Novel Inhibitors of Auxin-Induced Ca ²⁺ Signaling via a Plant-Based Chemical Screen. <i>Plant Physiology</i> , 2019, 180, 480-496.	4.8	18
22	Ionic stress enhances ER-PM connectivity via phosphoinositide-associated SYT1 contact site expansion in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1420-1429.	7.1	95
23	Calcium Ion Dynamics in Roots: Imaging and Analysis. <i>Methods in Molecular Biology</i> , 2018, 1761, 115-130.	0.9	7
24	Optimized Whole-Mount In Situ Immunolocalization for <i>Arabidopsis thaliana</i> Root Meristems and Lateral Root Primordia. <i>Methods in Molecular Biology</i> , 2018, 1761, 131-143.	0.9	2
25	Long-Term In Vivo Imaging of Luciferase-Based Reporter Gene Expression in <i>Arabidopsis</i> Roots. <i>Methods in Molecular Biology</i> , 2018, 1761, 177-190.	0.9	15
26	KIRA1 and ORESARA1 terminate flower receptivity by promoting cell death in the stigma of <i>Arabidopsis</i> . <i>Nature Plants</i> , 2018, 4, 365-375.	9.3	88
27	Pharmacological Strategies for Manipulating Plant Ca ²⁺ Signalling. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1506.	4.1	34
28	The ins and outs of Ca ²⁺ in plant endomembrane trafficking. <i>Current Opinion in Plant Biology</i> , 2017, 40, 131-137.	7.1	27
29	From shaping organelles to signalling platforms: the emerging functions of plant ER-PM contact sites. <i>Current Opinion in Plant Biology</i> , 2017, 40, 89-96.	7.1	55
30	Functional characterization of the <i>Arabidopsis</i> transcription factor bZIP29 reveals its role in leaf and root development. <i>Journal of Experimental Botany</i> , 2016, 67, 5825-5840.	4.8	78
31	Enquiry into the Topology of Plasma Membrane-Localized PIN Auxin Transport Components. <i>Molecular Plant</i> , 2016, 9, 1504-1519.	8.3	28
32	Cellular mechanisms for cargo delivery and polarity maintenance at different polar domains in plant cells. <i>Cell Discovery</i> , 2016, 2, 16018.	6.7	54
33	Cyclic programmed cell death stimulates hormone signaling and root development in <i>Arabidopsis</i> . <i>Science</i> , 2016, 351, 384-387.	12.6	186
34	Ethylene-Mediated Regulation of A2-Type CYCLINs Modulates Hyponastic Growth in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2015, 169, 194-208.	4.8	22
35	A coherent transcriptional feed-forward motif model for mediating auxin-sensitive PIN3 expression during lateral root development. <i>Nature Communications</i> , 2015, 6, 8821.	12.8	70
36	Osmotic Stress Modulates the Balance between Exocytosis and Clathrin-Mediated Endocytosis in <i>Arabidopsis thaliana</i> . <i>Molecular Plant</i> , 2015, 8, 1175-1187.	8.3	95

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37	Root Cap-Derived Auxin Pre-patterns the Longitudinal Axis of the Arabidopsis Root. <i>Current Biology</i> , 2015, 25, 1381-1388.	3.9	173
38	The Arabidopsis Synaptotagmin1 Is Enriched in Endoplasmic Reticulum-Plasma Membrane Contact Sites and Confers Cellular Resistance to Mechanical Stresses. <i>Plant Physiology</i> , 2015, 168, 132-143.	4.8	150
39	Calcium is an organizer of cell polarity in plants. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 2168-2172.	4.1	35
40	Cytokinin response factors regulate PIN-FORMED auxin transporters. <i>Nature Communications</i> , 2015, 6, 8717.	12.8	108
41	Transcriptional regulation of PIN genes by FOUR LIPS and MYB88 during Arabidopsis root gravitropism. <i>Nature Communications</i> , 2015, 6, 8822.	12.8	74
42	WOX5â€™IAA17 Feedback Circuit-Mediated Cellular Auxin Response Is Crucial for the Patterning of Root Stem Cell Niches in Arabidopsis. <i>Molecular Plant</i> , 2014, 7, 277-289.	8.3	125
43	The TPLATE Adaptor Complex Drives Clathrin-Mediated Endocytosis in Plants. <i>Cell</i> , 2014, 156, 691-704.	28.9	238
44	Auxin transport and activity regulate stomatal patterning and development. <i>Nature Communications</i> , 2014, 5, 3090.	12.8	118
45	Bipolar Plasma Membrane Distribution of Phosphoinositides and Their Requirement for Auxin-Mediated Cell Polarity and Patterning in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 2114-2128.	6.6	144
46	Salicylic acid interferes with clathrin-mediated endocytic protein trafficking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7946-7951.	7.1	101
47	A map of cell typeâ€™specific auxin responses. <i>Molecular Systems Biology</i> , 2013, 9, 688.	7.2	150
48	Sequential induction of auxin efflux and influx carriers regulates lateral root emergence. <i>Molecular Systems Biology</i> , 2013, 9, 699.	7.2	104
49	Retromer Subunits VPS35A and VPS29 Mediate Prevacuolar Compartment (PVC) Function in Arabidopsis. <i>Molecular Plant</i> , 2013, 6, 1849-1862.	8.3	47
50	Calcium: The Missing Link in Auxin Action. <i>Plants</i> , 2013, 2, 650-675.	3.5	86
51	Endocytic Trafficking of PIN Proteins and Auxin Transport. , 2012, , 165-183.		2
52	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.	8.0	118
53	SCFTIR1/AFB-auxin signalling regulates PIN vacuolar trafficking and auxin fluxes during root gravitropism. <i>EMBO Journal</i> , 2012, 32, 260-274.	7.8	152
54	Deconstructing auxin sensing. <i>Nature Chemical Biology</i> , 2012, 8, 415-416.	8.0	12

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55	GOLVEN Secretory Peptides Regulate Auxin Carrier Turnover during Plant Gravitropic Responses. <i>Developmental Cell</i> , 2012, 22, 678-685.	7.0	182
56	Inositol Trisphosphate-Induced Ca ²⁺ Signaling Modulates Auxin Transport and PIN Polarity. <i>Developmental Cell</i> , 2011, 20, 855-866.	7.0	121
57	Developmental regulation of CYCA2s contributes to tissue-specific proliferation in <i>Arabidopsis</i> . <i>EMBO Journal</i> , 2011, 30, 3430-3441.	7.8	113
58	PIN Polarity Maintenance by the Cell Wall in <i>Arabidopsis</i> . <i>Current Biology</i> , 2011, 21, 338-343.	3.9	336
59	Clathrin Mediates Endocytosis and Polar Distribution of PIN Auxin Transporters in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 1920-1931.	6.6	291
60	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
61	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.	7.1	271
62	ABP1 Mediates Auxin Inhibition of Clathrin-Dependent Endocytosis in <i>Arabidopsis</i> . <i>Cell</i> , 2010, 143, 111-121.	28.9	386
63	Auxin: A Trigger for Change in Plant Development. <i>Cell</i> , 2009, 136, 1005-1016.	28.9	1,102
64	The auxin influx carrier LAX3 promotes lateral root emergence. <i>Nature Cell Biology</i> , 2008, 10, 946-954.	10.3	715
65	Flowering-time genes modulate meristem determinacy and growth form in <i>Arabidopsis thaliana</i> . <i>Nature Genetics</i> , 2008, 40, 1489-1492.	21.4	353
66	Receptor-Like Kinase ACR4 Restricts Formative Cell Divisions in the <i>Arabidopsis</i> Root. <i>Science</i> , 2008, 322, 594-597.	12.6	342
67	Cytokinins Act Directly on Lateral Root Founder Cells to Inhibit Root Initiation. <i>Plant Cell</i> , 2008, 19, 3889-3900.	6.6	498
68	Auxin-dependent regulation of lateral root positioning in the basal meristem of <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2007, 134, 681-690.	2.5	540
69	Ethylene Regulates Root Growth through Effects on Auxin Biosynthesis and Transport-Dependent Auxin Distribution. <i>Plant Cell</i> , 2007, 19, 2197-2212.	6.6	682
70	Lateral Root Initiation or the Birth of a New Meristem. <i>Plant Molecular Biology</i> , 2006, 60, 871-887.	3.9	248
71	Auxin regulation of cell cycle and its role during lateral root initiation. <i>Physiologia Plantarum</i> , 2005, 123, 139-146.	5.2	40
72	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.	6.6	309

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73	Functional redundancy of PIN proteins is accompanied by auxin-dependent cross-regulation of PIN expression. <i>Development (Cambridge)</i> , 2005, 132, 4521-4531.	2.5	574
74	Transcript profiling of early lateral root initiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5146-5151.	7.1	190
75	An easy and versatile embedding method for transverse sections. <i>Journal of Microscopy</i> , 2004, 213, 76-80.	1.8	45
76	Auxin-Mediated Cell Cycle Activation during Early Lateral Root Initiation. <i>Plant Cell</i> , 2002, 14, 2339-2351.	6.6	523
77	Auxin Fuels the Cell Cycle Engine During Lateral Root Initiation. , 0, , 187-202.		3
78	Constitutive Active CPK30 Interferes With Root Growth and Endomembrane Trafficking in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	1