

# Kris Vissenberg

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

3,626

citations

34

h-index

59

g-index

100

ext. papers

4,345

ext. citations

5.2

avg, IF

5.12

L-index

#	Paper	IF	Citations
88	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> , <b>2012</b> , 109, 4668-73	11.5	240
87	The Root Apex of Arabidopsis thaliana Consists of Four Distinct Zones of Growth Activities: Meristematic Zone, Transition Zone, Fast Elongation Zone and Growth Terminating Zone. <i>Plant Signaling and Behavior</i> , <b>2006</b> , 1, 296-304	2.5	204
86	In vivo colocalization of xyloglucan endotransglycosylase activity and its donor substrate in the elongation zone of Arabidopsis roots. <i>Plant Cell</i> , <b>2000</b> , 12, 1229-37	11.6	185
85	Xyloglucan endotransglucosylase activity loosens a plant cell wall. <i>Annals of Botany</i> , <b>2007</b> , 100, 1467-73	4.1	154
84	Root Hair Initiation Is Coupled to a Highly Localized Increase of Xyloglucan Endotransglycosylase Action in Arabidopsis Roots. <i>Plant Physiology</i> , <b>2001</b> , 127, 1125-1135	6.6	128
83	A role for pectin de-methylesterification in a developmentally regulated growth acceleration in dark-grown Arabidopsis hypocotyls. <i>New Phytologist</i> , <b>2010</b> , 188, 726-39	9.8	119
82	Enzymic characterization of two recombinant xyloglucan endotransglucosylase/hydrolase (XTH) proteins of Arabidopsis and their effect on root growth and cell wall extension. <i>Journal of Experimental Botany</i> , <b>2009</b> , 60, 3959-72	7	115
81	Ethylene in vegetative development: a tale with a riddle. <i>New Phytologist</i> , <b>2012</b> , 194, 895-909	9.8	105
80	Colonization strategy of Campylobacter jejuni results in persistent infection of the chicken gut. <i>Veterinary Microbiology</i> , <b>2008</b> , 130, 285-97	3.3	104
79	New insights into root gravitropic signalling. <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 2155-65	7	101
78	Shaping 3D Root System Architecture. <i>Current Biology</i> , <b>2017</b> , 27, R919-R930	6.3	99
77	Regulation of cell length in the Arabidopsis thaliana root by the ethylene precursor 1-aminocyclopropane-1-carboxylic acid: a matter of apoplastic reactions. <i>New Phytologist</i> , <b>2005</b> , 168, 541-50	9.8	96
76	Differential expression of AtXTH17, AtXTH18, AtXTH19 and AtXTH20 genes in Arabidopsis roots. Physiological roles in specification in cell wall construction. <i>Plant and Cell Physiology</i> , <b>2005</b> , 46, 192-200	4.9	94
75	Dioxygenase-encoding AtDAO1 gene controls IAA oxidation and homeostasis in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 11016-21	11.5	93
74	Infection of Chinese cabbage by Plasmodiophora brassicae leads to a stimulation of plant growth: impacts on cell wall metabolism and hormone balance. <i>New Phytologist</i> , <b>2005</b> , 166, 241-50	9.8	78
73	XTH acts at the microfibril-matrix interface during cell elongation. <i>Journal of Experimental Botany</i> , <b>2005</b> , 56, 673-83	7	75
72	Apoplastic alkalization is instrumental for the inhibition of cell elongation in the Arabidopsis root by the ethylene precursor 1-aminocyclopropane-1-carboxylic acid. <i>Plant Physiology</i> , <b>2011</b> , 155, 2049-55	6.6	72

71	Xyloglucan endotransglucosylase/hydrolase (XTH) overexpression affects growth and cell wall mechanics in etiolated Arabidopsis hypocotyls. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 2481-97	7	70
70	Differences in enzymic properties of five recombinant xyloglucan endotransglucosylase/hydrolase (XTH) proteins of Arabidopsis thaliana. <i>Journal of Experimental Botany</i> , <b>2011</b> , 62, 261-71	7	66
69	The Auxin-Regulated CrRLK1L Kinase ERULUS Controls Cell Wall Composition during Root Hair Tip Growth. <i>Current Biology</i> , <b>2018</b> , 28, 722-732.e6	6.3	64
68	Xyloglucan endotransglucosylase action is high in the root elongation zone and in the trichoblasts of all vascular plants from Selaginella to Zea mays. <i>Journal of Experimental Botany</i> , <b>2003</b> , 54, 335-44	7	62
67	UV radiation reduces epidermal cell expansion in leaves of Arabidopsis thaliana. <i>Journal of Experimental Botany</i> , <b>2010</b> , 61, 4339-49	7	52
66	Onion epidermis as a new model to study the control of growth anisotropy in higher plants. <i>Journal of Experimental Botany</i> , <b>2009</b> , 60, 4175-87	7	52
65	Three-dimensional patterns of cell division and expansion throughout the development of Arabidopsis thaliana leaves. <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 6385-97	7	51
64	Characterization of a small auxin-up RNA (SAUR)-like gene involved in Arabidopsis thaliana development. <i>PLoS ONE</i> , <b>2013</b> , 8, e82596	3.7	50
63	Cellulose Synthesis and Cell Expansion Are Regulated by Different Mechanisms in Growing Arabidopsis Hypocotyls. <i>Plant Cell</i> , <b>2017</b> , 29, 1305-1315	11.6	48
62	Hormonal regulation of root hair growth and responses to the environment in Arabidopsis. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 2412-2427	7	47
61	Identification of genes involved in the ACC-mediated control of root cell elongation in Arabidopsis thaliana. <i>BMC Plant Biology</i> , <b>2012</b> , 12, 208	5.3	47
60	XET activity is found near sites of growth and cell elongation in bryophytes and some green algae: new insights into the evolution of primary cell wall elongation. <i>Annals of Botany</i> , <b>2007</b> , 99, 39-51	4.1	45
59	Mechanical stress in Arabidopsis leaves orients microtubules in a continuous supracellular pattern. <i>BMC Plant Biology</i> , <b>2013</b> , 13, 163	5.3	41
58	Effects of tyrosine kinase and phosphatase inhibitors on microtubules in Arabidopsis root cells. <i>Cell Biology International</i> , <b>2008</b> , 32, 630-7	4.5	41
57	Identification of the tumor metastasis suppressor Nm23-H1/Nm23-R1 as a constituent of the centrosome. <i>Experimental Cell Research</i> , <b>2001</b> , 262, 145-53	4.2	39
56	Cell Fate Determination and the Switch from Diffuse Growth to Planar Polarity in Arabidopsis Root Epidermal Cells. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 1163	6.2	38
55	Nucleoside diphosphate kinase beta (Nm23-R1/NDPKbeta) is associated with intermediate filaments and becomes upregulated upon cAMP-induced differentiation of rat C6 glioma. <i>Experimental Cell Research</i> , <b>2000</b> , 261, 127-38	4.2	37
54	The Arabidopsis thaliana hypocotyl, a model to identify and study control mechanisms of cellular expansion. <i>Plant Cell Reports</i> , <b>2014</b> , 33, 697-706	5.1	32

53	Phosphatidylinositol 3-kinase activity is required for the expression of glial fibrillary acidic protein upon cAMP-dependent induction of differentiation in rat C6 glioma. <i>Journal of Neurochemistry</i> , <b>2001</b> , 76, 610-8	6	32
52	Ion fluxes, auxin and the induction of elongation growth in <i>Nicotiana tabacum</i> cells. <i>Journal of Experimental Botany</i> , <b>2001</b> , 52, 2161-7	7	31
51	Over-expression of AtEXLA2 alters etiolated arabidopsis hypocotyl growth. <i>Annals of Botany</i> , <b>2015</b> , 115, 67-80	4.1	30
50	Putting theory to the test: which regulatory mechanisms can drive realistic growth of a root?. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003910	5	30
49	Towards mechanistic models of plant organ growth. <i>Journal of Experimental Botany</i> , <b>2012</b> , 63, 3325-37	7	30
48	Analysis of a xyloglucan endotransglycosylase/hydrolase (XTH) from the lycopodiophyte <i>Selaginella kraussiana</i> suggests that XTH sequence characteristics and function are highly conserved during the evolution of vascular plants. <i>Journal of Experimental Botany</i> , <b>2006</b> , 57, 2909-22	7	30
47	Proline-rich protein-like PRPL1 controls elongation of root hairs in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 5485-95	7	28
46	MicroFilament Analyzer, an image analysis tool for quantifying fibrillar orientation, reveals changes in microtubule organization during gravitropism. <i>Plant Journal</i> , <b>2013</b> , 74, 1045-58	6.9	28
45	Direct creation of marker-free tobacco plants from agroinfiltrated leaf discs. <i>Plant Cell Reports</i> , <b>2007</b> , 26, 1961-5	5.1	28
44	Mixture effects of copper, cadmium, and zinc on mortality and behavior of <i>Caenorhabditis elegans</i> . <i>Environmental Toxicology and Chemistry</i> , <b>2018</b> , 37, 145-159	3.8	27
43	Multi-omics analysis identifies genes mediating the extension of cell walls in the <i>Arabidopsis thaliana</i> root elongation zone. <i>Frontiers in Cell and Developmental Biology</i> , <b>2015</b> , 3, 10	5.7	25
42	The role of brassinosteroids in shoot gravitropism. <i>Plant Physiology</i> , <b>2011</b> , 156, 1331-6	6.6	25
41	Roles of the XTH Protein Family in the Expanding Cell <b>2006</b> , 89-116		25
40	Cell expansion in the epidermis: microtubules, cellulose orientation and wall loosening enzymes. <i>Journal of Plant Physiology</i> , <b>2001</b> , 158, 537-543	3.6	24
39	Review on shape formation in epidermal pavement cells of the <i>Arabidopsis</i> leaf. <i>Functional Plant Biology</i> , <b>2014</b> , 41, 914-921	2.7	22
38	The Kinase ERULUS Controls Pollen Tube Targeting and Growth in. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1942	6.2	20
37	Reactive blue 2 inhibition of cyclic AMP-dependent differentiation of rat C6 glioma cells by purinergic receptor-independent inactivation of phosphatidylinositol 3-kinase. <i>Biochemical Pharmacology</i> , <b>2004</b> , 67, 1489-98	6	19
36	CBL1-CIPK26-mediated phosphorylation enhances activity of the NADPH oxidase RBOHC, but is dispensable for root hair growth. <i>FEBS Letters</i> , <b>2018</b> , 592, 2582-2593	3.8	18

35	Combination of the ALCR/alcA ethanol switch and GAL4/VP16-UAS enhancer trap system enables spatial and temporal control of transgene expression in Arabidopsis. <i>Plant Biotechnology Journal</i> , <b>2007</b> , 5, 477-82	11.6	16
34	From hormone signal, via the cytoskeleton, to cell growth in single cells of tobacco. <i>Cell Biology International</i> , <b>2000</b> , 24, 343-9	4.5	16
33	Alteration in Auxin Homeostasis and Signaling by Overexpression Of PINOID Kinase Causes Leaf Growth Defects in. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1009	6.2	15
32	Potentiometric sensors doped with biomolecules as a new approach to small molecule/biomolecule binding kinetics analysis. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 515-20	11.8	12
31	Xyloglucan endotransglycosylase/hydrolase (XTH) is encoded by a multi-gene family in the primitive vascular land plant <i>Selaginella kraussiana</i> . <i>Plant Biology</i> , <b>2007</b> , 9, 142-6	3.7	12
30	High-throughput transient transformation of Arabidopsis roots enables systematic colocalization analysis of GFP-tagged proteins. <i>Plant Signaling and Behavior</i> , <b>2010</b> , 5, 261-3	2.5	11
29	The effect of metal mixture composition on toxicity to <i>C. elegans</i> at individual and population levels. <i>PLoS ONE</i> , <b>2019</b> , 14, e0218929	3.7	10
28	Perturbation of Auxin Homeostasis and Signaling by Overexpression Induces Stress Responses in Arabidopsis. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1308	6.2	10
27	UV radiation reduces epidermal cell expansion in Arabidopsis thaliana leaves without altering cellular microtubule organization. <i>Plant Signaling and Behavior</i> , <b>2011</b> , 6, 83-5	2.5	10
26	Osmotic stress inhibits leaf growth of Arabidopsis thaliana by enhancing ARF-mediated auxin responses. <i>New Phytologist</i> , <b>2020</b> , 226, 1766-1780	9.8	9
25	A large insertion in intron 2 of the TYRP1 gene associated with American Palomino phenotype in American mink. <i>Mammalian Genome</i> , <b>2016</b> , 27, 135-43	3.2	9
24	Molecular Mechanisms Regulating Root Hair Tip Growth: A Comparison with Pollen Tubes <b>2017</b> , 167-243		9
23	Effects of inhibitors of serine/threonine protein kinases on Arabidopsis thaliana root morphology and microtubule organization in its cells. <i>Cell and Tissue Biology</i> , <b>2010</b> , 4, 399-409	0.4	7
22	Cell Expansion: Past, Present and Perspectives <b>2006</b> , 1-6		6
21	In vitro cell wall extensibility controls age-related changes in the growth rate of etiolated Arabidopsis hypocotyls. <i>Functional Plant Biology</i> , <b>2015</b> , 42, 1068-1079	2.7	5
20	Effects of tyrosine kinase and phosphatase inhibitors on mitosis progression in synchronized tobacco BY-2 cells. <i>Cytology and Genetics</i> , <b>2012</b> , 46, 263-271	0.7	5
19	MicroFilament Analyzer identifies actin network organizations in epidermal cells of Arabidopsis thaliana roots. <i>Plant Signaling and Behavior</i> , <b>2013</b> , 8, e24821	2.5	5
18	The Control of Cell Size and Rate of Elongation in the Arabidopsis Root. <i>Plant Cell Monographs</i> , <b>2006</b> , 249-269	0.6	5

17	Microtubules And The Control Of Cell Elongation In Arabidopsis Roots. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , <b>2008</b> , 73-90	0.3	5
16	Cell type specificity of plant hormonal signals: Case studies and reflections on ethylene. <i>Russian Journal of Plant Physiology</i> , <b>2016</b> , 63, 577-586	1.6	4
15	Transverse Sectioning of Arabidopsis thaliana Leaves Using Resin Embedding. <i>Bio-protocol</i> , <b>2015</b> , 5,	0.9	4
14	Brassinosteroids Influence Arabidopsis Hypocotyl Gravidresponses through Changes in Mannans and Cellulose. <i>Plant and Cell Physiology</i> , <b>2021</b> , 62, 678-692	4.9	4
13	Ethylene is involved in the actin cytoskeleton rearrangement during the root gravitropic response of Arabidopsis thaliana. <i>Russian Journal of Plant Physiology</i> , <b>2016</b> , 63, 587-596	1.6	3
12	Is acid-induced extension in seed plants only protein-mediated?. <i>Plant Signaling and Behavior</i> , <b>2010</b> , 5, 757-9	2.5	3
11	The Arabidopsis Root Tip (Phospho)Proteomes at Growth-Promoting versus Growth-Repressing Conditions Reveal Novel Root Growth Regulators. <i>Cells</i> , <b>2021</b> , 10,	7.9	3
10	The Proline-Rich Family Protein EXTENSIN33 Is Required for Etiolated Arabidopsis thaliana Hypocotyl Growth. <i>Plant and Cell Physiology</i> , <b>2020</b> , 61, 1191-1203	4.9	2
9	Exclusion of candidate genes for coat colour phenotypes of the American mink (Neovison vison). <i>Animal Genetics</i> , <b>2012</b> , 43, 813-6	2.5	2
8	Cell Wall Expansion as Viewed by the Creep Method <b>2018</b> , 305-320		1
7	Effect of serine/threonine protein kinases and protein phosphatases inhibitors on mitosis progression in a synchronized tobacco BY-2 culture. <i>Cytology and Genetics</i> , <b>2012</b> , 46, 89-95	0.7	1
6	The cytoskeleton, elongation and the control of elongation. <i>Cell Biology International</i> , <b>2003</b> , 27, 287-8	4.5	1
5	The onion and the student: a fruitful combination!. <i>Journal of Biological Education</i> , <b>2001</b> , 35, 196-200	0.9	1
4	Imaging and quantitative methods for studying cytoskeletal rearrangements during root development and gravitropism. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1309, 81-9	1.4	1
3	Auxin-triggered changes in the Arabidopsis root tip (phospho)proteome reveal novel root growth regulators		1
2	The quiescent centre and root apical meristem: organization and function. <i>Journal of Experimental Botany</i> , <b>2021</b> , 72, 6673-6678	7	0
1	Plant biology: Positive feedback between auxin and cell wall mechanics during apical hook formation. <i>Current Biology</i> , <b>2021</b> , 31, R306-R309	6.3	