

# Bartel Vanholme

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

2,436  
citations

279798

23  
h-index

434195

31  
g-index

34  
all docs

34  
docs citations

34  
times ranked

3645  
citing authors

#	ARTICLE	IF	CITATIONS
1	Caffeoyl Shikimate Esterase (CSE) Is an Enzyme in the Lignin Biosynthetic Pathway in <i>Arabidopsis</i> . <i>Science</i> , 2013, 341, 1103-1106.	12.6	432
2	A Systems Biology View of Responses to Lignin Biosynthesis Perturbations in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 3506-3529.	6.6	321
3	The tify family previously known as ZIM. <i>Trends in Plant Science</i> , 2007, 12, 239-244.	8.8	283
4	Ploidy Affects Plant Growth and Alters Cell Wall Composition. <i>Plant Physiology</i> , 2019, 179, 74-87.	4.8	134
5	Secretions of plant-parasitic nematodes: a molecular update. <i>Gene</i> , 2004, 332, 13-27.	2.2	123
6	Towards a carbon-negative sustainable bio-based economy. <i>Frontiers in Plant Science</i> , 2013, 4, 174.	3.6	114
7	The Salivary Protein Repertoire of the Polyphagous Spider Mite <i>Tetranychus urticae</i> : A Quest for Effectors. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 3594-3613.	3.8	113
8	Small Glycosylated Lignin Oligomers Are Stored in <i>Arabidopsis</i> Leaf Vacuoles. <i>Plant Cell</i> , 2015, 27, 695-710.	6.6	90
9	Î²-Aminobutyric Acid-Induced Resistance Against Root-Knot Nematodes in Rice Is Based on Increased Basal Defense. <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 519-533.	2.6	75
10	COSY catalyses trans-cis isomerization and lactonization in the biosynthesis of coumarins. <i>Nature Plants</i> , 2019, 5, 1066-1075.	9.3	64
11	cis-Cinnamic Acid Is a Novel, Natural Auxin Efflux Inhibitor That Promotes Lateral Root Formation. <i>Plant Physiology</i> , 2017, 173, 552-565.	4.8	61
12	Molecular characterization and functional importance of pectate lyase secreted by the cyst nematode <i>Heterodera schachtii</i> . <i>Molecular Plant Pathology</i> , 2007, 8, 267-278.	4.2	56
13	Structural and functional investigation of a secreted chorismate mutase from the plant-parasitic nematode <i>Heterodera schachtii</i> in the context of related enzymes from diverse origins. <i>Molecular Plant Pathology</i> , 2009, 10, 189-200.	4.2	51
14	Bioactivity: phenylpropanoids™ best kept secret. <i>Current Opinion in Biotechnology</i> , 2019, 56, 156-162.	6.6	49
15	Detection of putative secreted proteins in the plant-parasitic nematode <i>Heterodera schachtii</i> . <i>Parasitology Research</i> , 2006, 98, 414-424.	1.6	46
16	Phenylcoumaran Benzylic Ether Reductase Prevents Accumulation of Compounds Formed under Oxidative Conditions in Poplar Xylem. <i>Plant Cell</i> , 2014, 26, 3775-3791.	6.6	43
17	A Phytochemical Perspective on Plant Defense Against Nematodes. <i>Frontiers in Plant Science</i> , 2020, 11, 602079.	3.6	43
18	Correlation between phenolic compounds and antioxidant activity of Anzer tea ( <i>Thymus praecox</i> Opiz) Tj ETQq0 0 0 r gBT /Overlock 10 T	5.25	42

#	ARTICLE	IF	CITATIONS
19	Modularization and Response Curve Engineering of a Naringenin-Responsive Transcriptional Biosensor. <i>ACS Synthetic Biology</i> , 2018, 7, 1303-1314.	3.8	31
20	cis-Cinnamic acid is a natural plant growth-promoting compound. <i>Journal of Experimental Botany</i> , 2019, 70, 6293-6304.	4.8	31
21	The phenylpropanoid pathway inhibitor piperonylic acid induces broad-spectrum pest and disease resistance in plants. <i>Plant, Cell and Environment</i> , 2021, 44, 3122-3139.	5.7	31
22	A Gene Family Coding for Salivary Proteins (SHOT) of the Polyphagous Spider Mite <i>Tetranychus urticae</i> Exhibits Fast Host-Dependent Transcriptional Plasticity. <i>Molecular Plant-Microbe Interactions</i> , 2018, 31, 112-124.	2.6	29
23	Seedling developmental defects upon blocking CINNAMATE-4-HYDROXYLASE are caused by perturbations in auxin transport. <i>New Phytologist</i> , 2021, 230, 2275-2291.	7.3	27
24	Chemical Genetics Uncovers Novel Inhibitors of Lignification, Including <i>p</i> -Iodobenzoic Acid Targeting CINNAMATE-4-HYDROXYLASE. <i>Plant Physiology</i> , 2016, 172, 198-220.	4.8	26
25	Accumulation of <i>N</i> -Acetylglucosamine Oligomers in the Plant Cell Wall Affects Plant Architecture in a Dose-Dependent and Conditional Manner. <i>Plant Physiology</i> , 2014, 165, 290-308.	4.8	25
26	Early development of the root-knot nematode <i>Meloidogyne incognita</i> . <i>BMC Developmental Biology</i> , 2016, 16, 10.	2.1	19
27	Behind the Scenes: The Impact of Bioactive Phenylpropanoids on the Growth Phenotypes of Arabidopsis Lignin Mutants. <i>Frontiers in Plant Science</i> , 2021, 12, 734070.	3.6	15
28	The allelochemical MDCA inhibits lignification and affects auxin homeostasis. <i>Plant Physiology</i> , 2016, 172, pp.01972.2015.	4.8	14
29	Plant cell wall sugars: sweeteners for a bio-based economy. <i>Physiologia Plantarum</i> , 2018, 164, 27-44.	5.2	14
30	Transcriptional silencing of RNAi constructs against nematode genes in Arabidopsis. <i>Nematology</i> , 2013, 15, 519-528.	0.6	12
31	Rice diterpenoid phytoalexins are involved in defence against parasitic nematodes and shape rhizosphere nematode communities. <i>New Phytologist</i> , 2022, 235, 1231-1245.	7.3	12
32	Plant defense priming in the field: a review. , 2021, , 87-124.		9