Jurriaan Ton

List of Publications by Year
in descending order

88 papers	14,790 citations	34105 52 h-index	56724 83 g-index
96 all docs	96 docs citations	96 times ranked	12351 citing authors

#	ARTICLE	IF	CITATIONS
1	Priming: Getting Ready for Battle. Molecular Plant-Microbe Interactions, 2006, 19, 1062-1071.	2.6	1,241
2	The multifaceted role of ABA in disease resistance. Trends in Plant Science, 2009, 14, 310-317.	8.8	782
3	Costs and benefits of priming for defense in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5602-5607.	7.1	727
4	Callose Deposition: A Multifaceted Plant Defense Response. Molecular Plant-Microbe Interactions, 2011, 24, 183-193.	2.6	613
5	Î²-amino-butyric acid-induced resistance against necrotrophic pathogens is based on ABA-dependent priming for callose. Plant Journal, 2004, 38, 119-130.	5.7	581
6	Next-Generation Systemic Acquired Resistance Â Â. Plant Physiology, 2012, 158, 844-853.	4.8	577
7	Recognizing Plant Defense Priming. Trends in Plant Science, 2016, 21, 818-822.	8.8	549
8	Long-distance signalling in plant defence. Trends in Plant Science, 2008, 13, 264-272.	8.8	543
9	Priming by airborne signals boosts direct and indirect resistance in maize. Plant Journal, 2006, 49, 16-26.	5.7	404
10	Benzoxazinoids in Root Exudates of Maize Attract Pseudomonas putida to the Rhizosphere. PLoS ONE, 2012, 7, e35498.	2.5	397
11	Mycorrhiza-induced resistance: more than the sum of its parts?. Trends in Plant Science, 2013, 18, 539-545.	8.8	396
12	Enhancing Arabidopsis Salt and Drought Stress Tolerance by Chemical Priming for Its Abscisic Acid Responses. Plant Physiology, 2005, 139, 267-274.	4.8	387
13	Dissecting the Î²-Aminobutyric Acidâ€"Induced Priming Phenomenon in Arabidopsis. Plant Cell, 2005, 17, 987-999.	6.6	356
14	Indole is an essential herbivore-induced volatile priming signal in maize. Nature Communications, 2015, 6, 6273.	12.8	349
15	Differential Effectiveness of Salicylate-Dependent and Jasmonate/Ethylene-Dependent Induced Resistance in Arabidopsis. Molecular Plant-Microbe Interactions, 2002, 15, 27-34.	2.6	330
16	Primed plants do not forget. Environmental and Experimental Botany, 2013, 94, 46-56.	4.2	301
17	Benzoxazinoid Metabolites Regulate Innate Immunity against Aphids and Fungi in Maize Â Â. Plant Physiology, 2011, 157, 317-327.	4.8	295
18	Interplay between JA, SA and ABA signalling during basal and induced resistance against <i>Pseudomonas syringae</i> and <i>Alternaria brassicicola</i>. Plant Journal, 2008, 54, 81-92.	5.7	262

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19	<i>MYB72</i> Is Required in Early Signaling Steps of Rhizobacteria-Induced Systemic Resistance in Arabidopsis Â. Plant Physiology, 2008, 146, 1293-1304.	4.8	255
20	Signal signature of abovegroundâ€induced resistance upon belowground herbivory in maize. Plant Journal, 2009, 59, 292-302.	5.7	244
21	Crying out for help with root exudates: adaptive mechanisms by which stressed plants assemble health-promoting soil microbiomes. Current Opinion in Microbiology, 2019, 49, 73-82.	5.1	231
22	Farming with crops and rocks to address global climate, food and soil security. Nature Plants, 2018, 4, 138-147.	9.3	226
23	Exploiting scents of distress: the prospect of manipulating herbivore-induced plant odours to enhance the control of agricultural pests. Current Opinion in Plant Biology, 2006, 9, 421-427.	7.1	225
24	Rhizobacteria-mediated induced systemic resistance (ISR) in Arabidopsis requires sensitivity to jasmonate and ethylene but is not accompanied by an increase in their production. Physiological and Molecular Plant Pathology, 2000, 57, 123-134.	2.5	222
25	Volatiles produced by soilâ€borne endophytic bacteria increase plant pathogen resistance and affect tritrophic interactions. Plant, Cell and Environment, 2014, 37, 813-826.	5.7	214
26	Metabolic regulation of the maize rhizobiome by benzoxazinoids. ISME Journal, 2019, 13, 1647-1658.	9.8	210
27	The role of DNA (de)methylation in immune responsiveness of Arabidopsis. Plant Journal, 2016, 88, 361-374.	5.7	196
28	Priming of plant innate immunity by rhizobacteria and Î²â€aminobutyric acid: differences and similarities in regulation. New Phytologist, 2009, 183, 419-431.	7.3	192
29	Signalling in Rhizobacteria-Induced Systemic Resistance inArabidopsis thaliana. Plant Biology, 2002, 4, 535-544.	3.8	189
30	The genetic and epigenetic landscape of the <i>Arabidopsis</i> centromeres. Science, 2021, 374, eabi7489.	12.6	188
31	Rhizobacteria-mediated Induced Systemic Resistance: Triggering, Signalling and Expression. European Journal of Plant Pathology, 2001, 107, 51-61.	1.7	181
32	Interactions between Arthropod-Induced Aboveground and Belowground Defenses in Plants. Plant Physiology, 2008, 146, 867-874.	4.8	152
33	Metabolite profiling of nonâ€sterile rhizosphere soil. Plant Journal, 2017, 92, 147-162.	5.7	141
34	Plant perception of Î²-aminobutyric acid is mediated by an aspartyl-tRNA synthetase. Nature Chemical Biology, 2014, 10, 450-456.	8.0	128
35	The epigenetic machinery controlling transgenerational systemic acquired resistance. Plant Signaling and Behavior, 2012, 7, 615-618.	2.4	126
36	Surviving in a Hostile World: Plant Strategies to Resist Pests and Diseases. Annual Review of Phytopathology, 2019, 57, 505-529.	7.8	123

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37	Abscisic Acid and Callose: Team Players in Defence Against Pathogens?. Journal of Phytopathology, 2005, 153, 377-383.	1.0	117
38	The interactive effects of arbuscular mycorrhiza and plant growth-promoting rhizobacteria synergistically enhance host plant defences against pathogens. Scientific Reports, 2017, 7, 16409.	3.3	115
39	The Arabidopsis ISR1 Locus Controlling Rhizobacteria-Mediated Induced Systemic Resistance Is Involved in Ethylene Signaling. Plant Physiology, 2001, 125, 652-661.	4.8	98
40	Characterization ofArabidopsisenhanced disease susceptibility mutants that are affected in systemically induced resistance. Plant Journal, 2002, 29, 11-21.	5.7	98
41	Fine Tuning of Reactive Oxygen Species Homeostasis Regulates Primed Immune Responses in <i>Arabidopsis</i>. Molecular Plant-Microbe Interactions, 2013, 26, 1334-1344.	2.6	93
42	The transcriptome of cis-jasmone-induced resistance in Arabidopsis thaliana and its role in indirect defence. Planta, 2010, 232, 1163-1180.	3.2	90
43	Fungal Infection Reduces Herbivore-Induced Plant Volatiles of Maize but does not Affect NaÃ¯ve Parasitoids. Journal of Chemical Ecology, 2006, 32, 1897-1909.	1.8	89
44	Identification of a Locus in Arabidopsis Controlling Both the Expression of Rhizobacteria-Mediated Induced Systemic Resistance (ISR) and Basal Resistance Against Pseudomonas syringae pv. tomato. Molecular Plant-Microbe Interactions, 1999, 12, 911-918.	2.6	88
45	NAD Acts as an Integral Regulator of Multiple Defense Layers. Plant Physiology, 2016, 172, 1465-1479.	4.8	85
46	The Induced Resistance Lexicon: Doâ€™s and Donâ€™ts. Trends in Plant Science, 2021, 26, 685-691.	8.8	84
47	Natural variation in priming of basal resistance: from evolutionary origin to agricultural exploitation. Molecular Plant Pathology, 2010, 11, 817-827.	4.2	79
48	Identification and characterisation of hypomethylated DNA loci controlling quantitative resistance in Arabidopsis. ELife, 2019, 8, .	6.0	73
49	Constitutive salicylic acid defences do not compromise seed yield, drought tolerance and water productivity in the <i>Arabidopsis</i> accession C24. Plant, Cell and Environment, 2010, 33, 1959-1973.	5.7	67
50	Chemical priming of immunity without costs to plant growth. New Phytologist, 2018, 218, 1205-1216.	7.3	67
51	An agenda for integrated system-wide interdisciplinary agri-food research. Food Security, 2017, 9, 195-210.	5.3	63
52	Role of NPR1 and KYP in long-lasting induced resistance by ÃŽÂ²-aminobutyric acid. Frontiers in Plant Science, 2014, 5, 184.	3.6	62
53	Spodoptera frugiperda Caterpillars Suppress Herbivore-Induced Volatile Emissions in Maize. Journal of Chemical Ecology, 2020, 46, 344-360.	1.8	57
54	Spore Density Determines Infection Strategy by the Plant Pathogenic Fungus <i>Plectosphaerella cucumerina</i>. Plant Physiology, 2016, 170, 2325-2339.	4.8	56

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55	The relationship between transgenerational acquired resistance and global DNA methylation in Arabidopsis. Scientific Reports, 2018, 8, 14761.	3.3	55
56	Optimizing Chemically Induced Resistance in Tomato Against Botrytis cinerea. Plant Disease, 2016, 100, 704-710.	1.4	51
57	Systemic defense priming by<i><i>Pseudomonas putida</i></i>KT2440 in maize depends on benzoxazinoid exudation from the roots. Plant Signaling and Behavior, 2013, 8, e22655.	2.4	47
58	Genetic dissection of basal defence responsiveness in accessions of <i>Arabidopsis thaliana</i>. Plant, Cell and Environment, 2011, 34, 1191-1206.	5.7	46
59	Epigenetics: a catalyst of plant immunity against pathogens. New Phytologist, 2022, 233, 66-83.	7.3	44
60	Behavioral Responses of the Leafhopper, Cicadulina storeyi China, a Major Vector of Maize Streak Virus, to Volatile Cues from Intact and Leafhopper-Damaged Maize. Journal of Chemical Ecology, 2011, 37, 40-48.	1.8	43
61	Prospects for plant defence activators and biocontrol in IPM â€“ Concepts and lessons learnt so far. Crop Protection, 2017, 97, 128-134.	2.1	42
62	Mechanisms of glacialâ€toâ€future atmospheric <scp>CO</scp>₂ effects on plant immunity. New Phytologist, 2018, 218, 752-761.	7.3	38
63	Belowground ABA boosts aboveground production of DIMBOA and primes induction of chlorogenic acid in maize. Plant Signaling and Behavior, 2009, 4, 639-641.	2.4	37
64	Bacterial infection systemically suppresses stomatal density. Plant, Cell and Environment, 2019, 42, 2411-2421.	5.7	37
65	The IBI1 Receptor of Î²-Aminobutyric Acid Interacts with VOZ Transcription Factors to Regulate Abscisic Acid Signaling and Callose-Associated Defense. Molecular Plant, 2020, 13, 1455-1469.	8.3	35
66	The rise, fall and resurrection of chemicalâ€induced resistance agents. Pest Management Science, 2021, 77, 3900-3909.	3.4	28
67	Insect-induced gene expression at the core of volatile terpene release in<i>Medicago truncatula</i>. Plant Signaling and Behavior, 2009, 4, 636-638.	2.4	26
68	Costs and Benefits of Transgenerational Induced Resistance in Arabidopsis. Frontiers in Plant Science, 2021, 12, 644999.	3.6	25
69	Impacts of Atmospheric CO2 and Soil Nutritional Value on Plant Responses to Rhizosphere Colonization by Soil Bacteria. Frontiers in Plant Science, 2018, 9, 1493.	3.6	21
70	Phloem: the integrative avenue for resource distribution, signaling, and defense. Frontiers in Plant Science, 2013, 4, 471.	3.6	18
71	The Arabidopsis ISR1 Locus is Required for Rhizobacteria-Mediated Induced Systemic Resistance Against Different Pathogens. Plant Biology, 2002, 4, 224-227.	3.8	17
72	Immune priming in plants: from the onset to transgenerational maintenance. Essays in Biochemistry, 2022, 66, 635-646.	4.7	17

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73	The Relationship Between Basal and Induced Resistance in Arabidopsis. , 2006, , 197-224.		15
74	Why rational argument fails the genetic modification (GM) debate. Food Security, 2018, 10, 1145-1161.	5.3	15
75	Title is missing!. European Journal of Plant Pathology, 2001, 107, 63-68.	1.7	13
76	Long-Lasting Defence Priming by Î²-Aminobutyric Acid in Tomato Is Marked by Genome-Wide Changes in DNA Methylation. Frontiers in Plant Science, 2022, 13, 836326.	3.6	13
77	The discovery of the BABA receptor: scientific implications and application potential. Frontiers in Plant Science, 2014, 5, 304.	3.6	12
78	Plant Defense Signaling from the Underground Primes Aboveground Defenses to Confer Enhanced Resistance in a Cost-Efficient Manner. Signaling and Communication in Plants, 2010, , 43-60.	0.7	9
79	Transcriptomic changes during the establishment of longâ€term methyl jasmonateâ€induced resistance in Norway spruce. Plant, Cell and Environment, 2022, 45, 1891-1913.	5.7	8
80	Role of Abscisic Acid in Disease Resistance. , 0, , 1-22.		6
81	Elucidating Pathways Controlling Induced Resistance. , 0, , 99-109.		5
82	Induced Resistanceâ€“ Orchestrating Defence Mechanisms through Crosstalk and Priming. , 0, , 334-370.		4
83	A rapid and non-destructive method for spatialâ€“temporal quantification of colonization by Pseudomonas syringae pv. tomato DC3000 in Arabidopsis and tomato. Plant Methods, 2021, 17, 126.	4.3	4
84	Methylation moulds microbiomes. Nature Plants, 2020, 6, 910-911.	9.3	3
85	Systemic Resistance Induction by Vascular and Airborne Signaling. Progress in Botany Fortschritte Der Botanik, 2010, , 279-306.	0.3	3
86	An Adjustable Protocol to Analyze Chemical Profiles of Non-sterile Rhizosphere Soil. Bio-protocol, 2019, 9, e3245.	0.4	0
87	Defence against <i>Bremia lactucae</i> conferred by the resistance gene <i>Dm7</i> in lettuce is broken by treatment with dichloroisonicotinic acid. Plant Pathology, 2022, 71, 611-620.	2.4	0
88	Induced Resistance?????? Orchestrating Defence Mechanisms through Crosstalk and Priming. , 0, , 334-370.		0