

Frank Lw W Takken

List of Publications by Year in descending order

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81
papers

7,923
citations

46984

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60583

81
g-index

85
all docs

85
docs citations

85
times ranked

6537
citing authors

#	ARTICLE	IF	CITATIONS
1	Susceptibility Genes 101: How to Be a Good Host. <i>Annual Review of Phytopathology</i> , 2014, 52, 551-581.	3.5	458
2	The Tomato R Gene Products I-2 and Mi-1 Are Functional ATP Binding Proteins with ATPase Activity. <i>Plant Cell</i> , 2002, 14, 2929-2939.	3.1	369
3	Resistance proteins: molecular switches of plant defence. <i>Current Opinion in Plant Biology</i> , 2006, 9, 383-390.	3.5	360
4	Structure-function analysis of the NB-ARC domain of plant disease resistance proteins. <i>Journal of Experimental Botany</i> , 2008, 59, 1383-1397.	2.4	358
5	Mutations in the NB-ARC Domain of I-2 That Impair ATP Hydrolysis Cause Autoactivation. <i>Plant Physiology</i> , 2006, 140, 1233-1245.	2.3	276
6	Coiled-Coil Domain-Dependent Homodimerization of Intracellular Barley Immune Receptors Defines a Minimal Functional Module for Triggering Cell Death. <i>Cell Host and Microbe</i> , 2011, 9, 187-199.	5.1	269
7	The effector protein Avr2 of the xylem-colonizing fungus <i>Fusarium oxysporum</i> activates the tomato resistance protein intracellularly. <i>Plant Journal</i> , 2009, 58, 970-978.	2.8	267
8	How to build a pathogen detector: structural basis of NB-LRR function. <i>Current Opinion in Plant Biology</i> , 2012, 15, 375-384.	3.5	261
9	The arms race between tomato and <i>Fusarium oxysporum</i> . <i>Molecular Plant Pathology</i> , 2010, 11, 309-314.	2.0	246
10	MITEs in the promoters of effector genes allow prediction of novel virulence genes in <i>Fusarium oxysporum</i> . <i>BMC Genomics</i> , 2013, 14, 119.	1.2	233
11	Structure-Function Analysis of Barley NLR Immune Receptor MLA10 Reveals Its Cell Compartment Specific Activity in Cell Death and Disease Resistance. <i>PLoS Pathogens</i> , 2012, 8, e1002752.	2.1	219
12	Structure and Function of Resistance Proteins in Solanaceous Plants. <i>Annual Review of Phytopathology</i> , 2007, 45, 43-72.	3.5	209
13	A longevity assurance gene homolog of tomato mediates resistance to <i>Alternaria alternata</i> f. sp. <i>lycopersici</i> toxins and fumonisin B1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 4961-4966.	3.3	201
14	STANDING strong, resistance proteins instigators of plant defence. <i>Current Opinion in Plant Biology</i> , 2009, 12, 427-436.	3.5	177
15	An NB-LRR protein required for HR signalling mediated by both extra- and intracellular resistance proteins. <i>Plant Journal</i> , 2007, 50, 14-28.	2.8	175
16	The F-Box Protein ACRE189/ACIF1 Regulates Cell Death and Defense Responses Activated during Pathogen Recognition in Tobacco and Tomato. <i>Plant Cell</i> , 2008, 20, 697-719.	3.1	154
17	<i>Cladosporium fulvum</i> overcomes Cf-2-mediated resistance by producing truncated AVR2 elicitor proteins. <i>Molecular Microbiology</i> , 2002, 45, 875-884.	1.2	153
18	To Nibble at Plant Resistance Proteins. <i>Science</i> , 2009, 324, 744-746.	6.0	149

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19	<i>Arabidopsis</i> Small Ubiquitin-Like Modifier Paralogs Have Distinct Functions in Development and Defense. <i>Plant Cell</i> , 2010, 22, 1998-2016.	3.1	140
20	The <i>Fusarium oxysporum</i> Effector Six6 Contributes to Virulence and Suppresses I-2-Mediated Cell Death. <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 336-348.	1.4	139
21	A functional cloning strategy, based on a binary PVX-expression vector, to isolate HR-inducing cDNAs of plant pathogens. <i>Plant Journal</i> , 2000, 24, 275-283.	2.8	130
22	Heat shock protein 90 and its co-chaperone protein phosphatase 5 interact with distinct regions of the tomato I-2 disease resistance protein. <i>Plant Journal</i> , 2005, 43, 284-298.	2.8	130
23	Biocontrol by <i>Fusarium oxysporum</i> Using Endophyte-Mediated Resistance. <i>Frontiers in Plant Science</i> , 2020, 11, 37.	1.7	125
24	The Use of Agroinfiltration for Transient Expression of Plant Resistance and Fungal Effector Proteins in <i>Nicotiana benthamiana</i> Leaves. <i>Methods in Molecular Biology</i> , 2012, 835, 61-74.	0.4	121
25	The <i>AVR2</i> gene pair is required to activate I-2-mediated immunity in tomato. <i>New Phytologist</i> , 2015, 208, 507-518.	3.5	113
26	cDNA-AFLP Combined with Functional Analysis Reveals Novel Genes Involved in the Hypersensitive Response. <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 567-576.	1.4	107
27	Plant Resistance Genes: Their Structure, Function and Evolution. <i>European Journal of Plant Pathology</i> , 2000, 106, 699-713.	0.8	102
28	Does chromatin remodeling mark systemic acquired resistance?. <i>Trends in Plant Science</i> , 2009, 14, 286-294.	4.3	96
29	The effector repertoire of <i>Fusarium oxysporum</i> determines the tomato xylem proteome composition following infection. <i>Frontiers in Plant Science</i> , 2015, 6, 967.	1.7	95
30	How Phytohormones Shape Interactions between Plants and the Soil-Borne Fungus <i>Fusarium oxysporum</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 170.	1.7	94
31	The <i>Fusarium oxysporum</i> Avr2-Six5 Effector Pair Alters Plasmodesmatal Exclusion Selectivity to Facilitate Cell-to-Cell Movement of Avr2. <i>Molecular Plant</i> , 2018, 11, 691-705.	3.9	94
32	Interaction of <i>Medicago truncatula</i> Lysin Motif Receptor-Like Kinases, NFP and LYK3, Produced in <i>Nicotiana benthamiana</i> Induces Defence-Like Responses. <i>PLoS ONE</i> , 2013, 8, e65055.	1.1	86
33	The receptor-like kinase <i>SISERK1</i> is required for I-2-mediated resistance to potato aphids in tomato. <i>Plant Journal</i> , 2011, 67, 459-471.	2.8	82
34	Methyl salicylate production in tomato affects biotic interactions. <i>Plant Journal</i> , 2010, 62, 124-134.	2.8	77
35	A one-step method to convert vectors into binary vectors suited for <i>Agrobacterium</i> -mediated transformation. <i>Current Genetics</i> , 2004, 45, 242-248.	0.8	76
36	Attenuation of Cf-Mediated Defense Responses at Elevated Temperatures Correlates With a Decrease in Elicitor-Binding Sites. <i>Molecular Plant-Microbe Interactions</i> , 2002, 15, 1040-1049.	1.4	75

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37	Involvement of salicylic acid, ethylene and jasmonic acid signalling pathways in the susceptibility of tomato to <i>Fusarium oxysporum</i> . <i>Molecular Plant Pathology</i> , 2017, 18, 1024-1035.	2.0	73
38	A second gene at the tomato Cf-4 locus confers resistance to <i>Cladosporium fulvum</i> through recognition of a novel avirulence determinant. <i>Plant Journal</i> , 1999, 20, 279-288.	2.8	73
39	Structure-function analysis of the <i>Fusarium oxysporum</i> Avr2 effector allows uncoupling of its immune-suppressing activity from recognition. <i>New Phytologist</i> , 2017, 216, 897-914.	3.5	72
40	Endophyte-Mediated Resistance in Tomato to <i>Fusarium oxysporum</i> Is Independent of ET, JA, and SA. <i>Frontiers in Plant Science</i> , 2019, 10, 979.	1.7	70
41	Identification and Ds-tagged isolation of a new gene at the Cf-4 locus of tomato involved in disease resistance to <i>Cladosporium fulvum</i> . <i>Plant Journal</i> , 1998, 14, 401-411.	2.8	69
42	Transcomplementation, but not Physical Association of the CC-NB-ARC and LRR Domains of Tomato R Protein Mi-1.2 is Altered by Mutations in the ARC2 Subdomain. <i>Molecular Plant</i> , 2008, 1, 401-410.	3.9	67
43	Xylem Sap Proteomics Reveals Distinct Differences Between R Gene- and Endophyte-Mediated Resistance Against <i>Fusarium</i> Wilt Disease in Tomato. <i>Frontiers in Microbiology</i> , 2018, 9, 2977.	1.5	63
44	Update on the domain architectures of NLRs and R proteins. <i>Biochemical and Biophysical Research Communications</i> , 2006, 339, 459-462.	1.0	62
45	Resistance proteins: scouts of the plant innate immune system. <i>European Journal of Plant Pathology</i> , 2008, 121, 243-255.	0.8	61
46	A nuclear localization for Avr2 from <i>Fusarium oxysporum</i> is required to activate the tomato resistance protein I-2. <i>Frontiers in Plant Science</i> , 2013, 4, 94.	1.7	61
47	The small heat shock protein 20 RS12 interacts with and is required for stability and function of tomato resistance protein I-2. <i>Plant Journal</i> , 2010, 63, 563-572.	2.8	52
48	The tomato xylem sap protein XSP10 is required for full susceptibility to <i>Fusarium</i> wilt disease. <i>Journal of Experimental Botany</i> , 2011, 62, 963-973.	2.4	52
49	Genome-wide functional analyses of plant coiled-coil NLR-type pathogen receptors reveal essential roles of their N-terminal domain in oligomerization, networking, and immunity. <i>PLoS Biology</i> , 2018, 16, e2005821.	2.6	52
50	The potential of effector-target genes in breeding for plant innate immunity. <i>Microbial Biotechnology</i> , 2013, 6, 223-229.	2.0	49
51	The intracellular immune receptor Rx1 regulates the DNA-binding activity of a Golden2-like transcription factor. <i>Journal of Biological Chemistry</i> , 2018, 293, 3218-3233.	1.6	44
52	SUMO-, MAPK-, and resistance protein-signaling converge at transcription complexes that regulate plant innate immunity. <i>Plant Signaling and Behavior</i> , 2010, 5, 1597-1601.	1.2	41
53	Dual Regulatory Roles of the Extended N Terminus for Activation of the Tomato Mi-1.2 Resistance Protein. <i>Molecular Plant-Microbe Interactions</i> , 2012, 25, 1045-1057.	1.4	41
54	<i>Fusarium oxysporum</i> colonizes the stem of resistant tomato plants, the extent varying with the R-gene present. <i>European Journal of Plant Pathology</i> , 2019, 154, 55-65.	0.8	41

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55	The powdery mildew-resistant Arabidopsis mlo2 mlo6 mlo12 triple mutant displays altered infection phenotypes with diverse types of phytopathogens. <i>Scientific Reports</i> , 2017, 7, 9319.	1.6	40
56	The Arabidopsis leucine-rich repeat receptor-like kinase MIK2 is a crucial component of early immune responses to a fungal-derived elicitor. <i>New Phytologist</i> , 2021, 229, 3453-3466.	3.5	38
57	The Potato Nucleotide-binding Leucine-rich Repeat (NLR) Immune Receptor Rx1 Is a Pathogen-dependent DNA-deforming Protein. <i>Journal of Biological Chemistry</i> , 2015, 290, 24945-24960.	1.6	36
58	The root-invading pathogen <i>Fusarium oxysporum</i> targets pattern-triggered immunity using both cytoplasmic and apoplastic effectors. <i>New Phytologist</i> , 2020, 227, 1479-1492.	3.5	35
59	Specific recognition of AVR4 and AVR9 results in distinct patterns of hypersensitive cell death in tomato, but similar patterns of defence-related gene expression. <i>Molecular Plant Pathology</i> , 2001, 2, 77-86.	2.0	32
60	Uptake of the Fusarium Effector Avr2 by Tomato Is Not a Cell Autonomous Event. <i>Frontiers in Plant Science</i> , 2016, 7, 1915.	1.7	32
61	Genetic and physical analysis of a YAC contig spanning the fungal disease resistance locus Asc of tomato (<i>Lycopersicon esculentum</i>). <i>Molecular Genetics and Genomics</i> , 1999, 261, 50-57.	2.4	28
62	The molecular basis of co-evolution between <i>Cladosporium fulvum</i> and tomato. <i>Antonie Van Leeuwenhoek</i> , 2002, 81, 409-412.	0.7	22
63	The Tomato Nucleotide-binding Leucine-rich Repeat Immune Receptor I-2 Couples DNA-binding to Nucleotide-binding Domain Nucleotide Exchange. <i>Journal of Biological Chemistry</i> , 2016, 291, 1137-1147.	1.6	17
64	Number of Candidate Effector Genes in Accessory Genomes Differentiates Pathogenic From Endophytic <i>Fusarium oxysporum</i> Strains. <i>Frontiers in Plant Science</i> , 2021, 12, 761740.	1.7	17
65	The Conformation of a Plasma Membrane-Localized Somatic Embryogenesis Receptor Kinase Complex Is Altered by a Potato Aphid-Derived Effector. <i>Plant Physiology</i> , 2016, 171, 2211-2222.	2.3	16
66	Diminished Pathogen and Enhanced Endophyte Colonization upon Coinoculation of Endophytic and Pathogenic <i>Fusarium</i> Strains. <i>Microorganisms</i> , 2020, 8, 544.	1.6	15
67	Pattern-triggered immunity restricts host colonization by endophytic fusaria, but does not affect endophyte-mediated resistance. <i>Molecular Plant Pathology</i> , 2021, 22, 204-215.	2.0	14
68	Activation of immune receptor Rx1 triggers distinct immune responses culminating in cell death after 4 hours. <i>Molecular Plant Pathology</i> , 2019, 20, 575-588.	2.0	13
69	A DNA-Binding Bromodomain-Containing Protein Interacts with and Reduces Rx1-Mediated Immune Response to Potato Virus X. <i>Plant Communications</i> , 2020, 1, 100086.	3.6	10
70	Protection to Tomato Wilt Disease Conferred by the Nonpathogenic <i>Fusarium oxysporum</i> Fo47 is More Effective Than that Conferred by Avirulent Strains. <i>Phytopathology</i> , 2021, 111, 253-257.	1.1	10
71	Protein-protein interactions as a proxy to monitor conformational changes and activation states of the tomato resistance protein I-2. <i>Journal of Experimental Botany</i> , 2012, 63, 3047-3060.	2.4	9
72	Perturbation of nuclear-cytosolic shuttling of Rx1 compromises extreme resistance and translational arrest of potato virus X transcripts. <i>Plant Journal</i> , 2021, 106, 468-479.	2.8	9

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73	Editorial: Evolution and Functional Mechanisms of Plant Disease Resistance. <i>Frontiers in Genetics</i> , 2020, 11, 593240.	1.1	8
74	Unlike Many Disease Resistances, Rx1-Mediated Immunity to Potato Virus X Is Not Compromised at Elevated Temperatures. <i>Frontiers in Genetics</i> , 2020, 11, 417.	1.1	8
75	The Intracellularly Acting Effector Foa3 Suppresses Defense Responses When Infiltrated Into the Apoplast. <i>Frontiers in Plant Science</i> , 2022, 13, .	1.7	5
76	An Outlook on the Localisation and Structure-Function Relationships of R Proteins in Solanum. <i>Potato Research</i> , 2009, 52, 229-235.	1.2	3
77	Plant Autoimmunity: When Good Things Go Bad. <i>Current Biology</i> , 2017, 27, R361-R363.	1.8	3
78	From laboratory to field: applying the Fo47 biocontrol strain in potato fields. <i>European Journal of Plant Pathology</i> , 2020, 158, 645-654.	0.8	3
79	Transcript accumulation in a trifold interaction gives insight into mechanisms of biocontrol. <i>New Phytologist</i> , 2019, 224, 547-549.	3.5	2
80	Visualization and Quantification of Cell-to-cell Movement of Proteins in <i>Nicotiana benthamiana</i> . <i>Bio-protocol</i> , 2018, 8, e3114.	0.2	2
81	Resistance proteins: scouts of the plant innate immune system. , 2007, , 243-255.		1