

Jan A L Van Kan

List of Publications by Year in descending order

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103
papers

14,662
citations

44444

50
h-index

39744

98
g-index

107
all docs

107
docs citations

107
times ranked

12001
citing authors

#	ARTICLE	IF	CITATIONS
1	The Top 10 fungal pathogens in molecular plant pathology. <i>Molecular Plant Pathology</i> , 2012, 13, 414-430.	2.0	3,270
2	<i>Botrytis cinerea</i> : the cause of grey mould disease. <i>Molecular Plant Pathology</i> , 2007, 8, 561-580.	2.0	1,345
3	Genomic Analysis of the Necrotrophic Fungal Pathogens <i>Sclerotinia sclerotiorum</i> and <i>Botrytis cinerea</i> . <i>PLoS Genetics</i> , 2011, 7, e1002230.	1.5	902
4	Licensed to kill: the lifestyle of a necrotrophic plant pathogen. <i>Trends in Plant Science</i> , 2006, 11, 247-253.	4.3	627
5	The Endopolygalacturonase Gene <i>Bcpg1</i> Is Required for Full Virulence of <i>Botrytis cinerea</i> . <i>Molecular Plant-Microbe Interactions</i> , 1998, 11, 1009-1016.	1.4	513
6	Molecular Phylogeny of the Plant Pathogenic Genus <i>Botrytis</i> and the Evolution of Host Specificity. <i>Molecular Biology and Evolution</i> , 2004, 22, 333-346.	3.5	345
7	Cloning and Characterization of cDNA of Avirulence Gene <i>avr9</i> of the Fungal Pathogen <i>Cladosporium fulvum</i> , Causal Agent of Tomato Leaf Mold. <i>Molecular Plant-Microbe Interactions</i> , 1991, 4, 52.	1.4	305
8	The Role of Ethylene and Wound Signaling in Resistance of Tomato to <i>Botrytis cinerea</i> . <i>Plant Physiology</i> , 2002, 129, 1341-1351.	2.3	301
9	A gapless genome sequence of the fungus <i>Botrytis cinerea</i> . <i>Molecular Plant Pathology</i> , 2017, 18, 75-89.	2.0	265
10	Necrotizing activity of five <i>Botrytis cinerea</i> endopolygalacturonases produced in <i>Pichia pastoris</i> . <i>Plant Journal</i> , 2005, 43, 213-225.	2.8	255
11	Fungal Endopolygalacturonases Are Recognized as Microbe-Associated Molecular Patterns by the Arabidopsis Receptor-Like Protein RESPONSIVENESS TO BOTRYTIS POLYGALACTURONASES1 Å. <i>Plant Physiology</i> , 2014, 164, 352-364.	2.3	249
12	One stop shop: backbones trees for important phytopathogenic genera: I (2014). <i>Fungal Diversity</i> , 2014, 67, 21-125.	4.7	241
13	NADPH Oxidases Are Involved in Differentiation and Pathogenicity in <i>Botrytis cinerea</i> . <i>Molecular Plant-Microbe Interactions</i> , 2008, 21, 808-819.	1.4	240
14	Molecular analysis of the avirulence gene <i>avr9</i> of the fungal tomato pathogen <i>Cladosporium fulvum</i> fully supports the gene-for-gene hypothesis.. <i>Plant Journal</i> , 1992, 2, 359-366.	2.8	233
15	Transgenic Expression of Pear PGIP in Tomato Limits Fungal Colonization. <i>Molecular Plant-Microbe Interactions</i> , 2000, 13, 942-950.	1.4	228
16	Grey mould of strawberry, a devastating disease caused by the ubiquitous necrotrophic fungal pathogen <i>Botrytis cinerea</i> . <i>Molecular Plant Pathology</i> , 2019, 20, 877-892.	2.0	222
17	Differential accumulation of mRNAs encoding extracellular and intracellular PR proteins in tomato induced by virulent and avirulent races of <i>Cladosporium fulvum</i> . <i>Plant Molecular Biology</i> , 1992, 20, 513-527.	2.0	211
18	The Complete Genome Sequence of the Phytopathogenic Fungus <i>Sclerotinia sclerotiorum</i> Reveals Insights into the Genome Architecture of Broad Host Range Pathogens. <i>Genome Biology and Evolution</i> , 2017, 9, 593-618.	1.1	187

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19	Many Shades of Grey in Botrytisâ€™ Host Plant Interactions. Trends in Plant Science, 2018, 23, 613-622.	4.3	172
20	Fungal and plant gene expression during synchronized infection of tomato leaves by Botrytis cinerea. European Journal of Plant Pathology, 1998, 104, 207-220.	0.8	170
21	Histochemical and genetic analysis of host and non-host interactions of Arabidopsis with three Botrytis species: an important role for cell death control. Molecular Plant Pathology, 2007, 8, 41-54.	2.0	164
22	Resveratrol acts as a natural profungicide and induces self-intoxication by a specific laccase. Molecular Microbiology, 2002, 43, 883-894.	1.2	151
23	Structure of tobacco genes encoding pathogenesis-related proteins from the PR-1 group. Nucleic Acids Research, 1987, 15, 6799-6811.	6.5	137
24	Phytotoxic Nep1â€™like proteins from the necrotrophic fungus <i>Botrytis cinerea</i> associate with membranes and the nucleus of plant cells. New Phytologist, 2008, 177, 493-505.	3.5	136
25	Regulation of endopolygalacturonase gene expression in Botrytis cinerea by galacturonic acid, ambient pH and carbon catabolite repression. Current Genetics, 2000, 37, 152-157.	0.8	131
26	Botrytis cinerea Endopolygalacturonase Genes Are Differentially Expressed in Various Plant Tissues. Fungal Genetics and Biology, 2001, 33, 97-105.	0.9	129
27	Genome Update of Botrytis cinerea Strains B05.10 and T4. Eukaryotic Cell, 2012, 11, 1413-1414.	3.4	124
28	<i>Botrytis</i> species: relentless necrotrophic thugs or endophytes gone rogue?. Molecular Plant Pathology, 2014, 15, 957-961.	2.0	116
29	Simultaneous silencing of multiple genes in the apple scab fungus, Venturia inaequalis, by expression of RNA with chimeric inverted repeats. Fungal Genetics and Biology, 2004, 41, 963-971.	0.9	115
30	Functional analysis of an extracellular catalase of Botrytis cinerea. Molecular Plant Pathology, 2002, 3, 227-238.	2.0	114
31	Mind the gap; seven reasons to close fragmented genome assemblies. Fungal Genetics and Biology, 2016, 90, 24-30.	0.9	108
32	Molecular characterization of four chitinase cDNAs obtained from Cladosporium fulvum-infected tomato. Plant Molecular Biology, 1993, 22, 1017-1029.	2.0	107
33	Positive selection in phytotoxic protein-encoding genes of Botrytis species. Fungal Genetics and Biology, 2007, 44, 52-63.	0.9	104
34	Oxaloacetate Hydrolase, the C-C Bond Lyase of Oxalate Secreting Fungi. Journal of Biological Chemistry, 2007, 282, 9581-9590.	1.6	102
35	The Botrytis cinerea aspartic proteinase family. Fungal Genetics and Biology, 2010, 47, 53-65.	0.9	101
36	Genes involved in virulence of the entomopathogenic fungus Beauveria bassiana. Journal of Invertebrate Pathology, 2016, 133, 41-49.	1.5	101

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37	Induction of programmed cell death in lily by the fungal pathogen <i>Botrytis elliptica</i> . <i>Molecular Plant Pathology</i> , 2004, 5, 559-574.	2.0	100
38	Functional analysis of <i>Botrytis cinerea</i> pectin methylesterase genes by PCR-based targeted mutagenesis: <i>Bcpme1</i> and <i>Bcpme2</i> are dispensable for virulence of strain B05.10. <i>Molecular Plant Pathology</i> , 2005, 6, 641-652.	2.0	86
39	Induction of tomato stress protein mRNAs by ethephon, 2,6-dichloroisonicotinic acid and salicylate. <i>Plant Molecular Biology</i> , 1995, 27, 1205-1213.	2.0	76
40	The NADPH Oxidase Complexes in <i>Botrytis cinerea</i> : Evidence for a Close Association with the ER and the Tetraspanin Pls1. <i>PLoS ONE</i> , 2013, 8, e55879.	1.1	75
41	Comparing Arabidopsis receptor kinase and receptor protein-mediated immune signaling reveals BIK1-dependent differences. <i>New Phytologist</i> , 2019, 221, 2080-2095.	3.5	73
42	An aspartic proteinase gene family in the filamentous fungus <i>Botrytis cinerea</i> contains members with novel features. <i>Microbiology (United Kingdom)</i> , 2004, 150, 2475-2489.	0.7	72
43	The construction of a <i>Solanum habrochaites</i> LYC4 introgression line population and the identification of QTLs for resistance to <i>Botrytis cinerea</i> . <i>Theoretical and Applied Genetics</i> , 2007, 114, 1071-1080.	1.8	72
44	The Top 10 fungal pathogens in molecular plant pathology. <i>Molecular Plant Pathology</i> , 2012, 13, 804-804.	2.0	72
45	The d-galacturonic acid catabolic pathway in <i>Botrytis cinerea</i> . <i>Fungal Genetics and Biology</i> , 2011, 48, 990-997.	0.9	70
46	Functional analysis and mode of action of phytotoxic Nep1-like proteins of <i>Botrytis cinerea</i> . <i>Physiological and Molecular Plant Pathology</i> , 2010, 74, 376-386.	1.3	68
47	The Contribution of Cell Wall Degrading Enzymes to Pathogenesis of Fungal Plant Pathogens. , 2002, , 341-358.		68
48	Application of differential display RT-PCR to the analysis of gene expression in a plant-fungus interaction. <i>Plant Molecular Biology</i> , 1996, 32, 947-957.	2.0	65
49	The transcriptional activator GaaR of <i>Aspergillus Niger</i> is required for release and utilization of galacturonic acid from pectin. <i>FEBS Letters</i> , 2016, 590, 1804-1815.	1.3	64
50	A Polygalacturonase-Inhibiting Protein from Grapevine Reduces the Symptoms of the Endopolygalacturonase BcPG2 from <i>Botrytis cinerea</i> in <i>Nicotiana benthamiana</i> Leaves Without Any Evidence for In Vitro Interaction. <i>Molecular Plant-Microbe Interactions</i> , 2007, 20, 392-402.	1.4	60
51	Subcellular localization of plant chitinases and 1,3- β -glucanases in <i>Cladosporium fulvum</i> (syn. <i>Fulvia</i>) Tj ETQq1 1 0.784314 rgBT /Over	1.3	54
52	Functional analysis of NLP genes from <i>Botrytis elliptica</i> . <i>Molecular Plant Pathology</i> , 2007, 8, 209-214.	2.0	53
53	Comparative genomics of plant pathogenic <i>Botrytis</i> species with distinct host specificity. <i>BMC Genomics</i> , 2019, 20, 203.	1.2	53
54	Analysis of Cryptic, Systemic <i>Botrytis</i> Infections in Symptomless Hosts. <i>Frontiers in Plant Science</i> , 2016, 7, 625.	1.7	51

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55	Three QTLs for <i>Botrytis cinerea</i> resistance in tomato. <i>Theoretical and Applied Genetics</i> , 2007, 114, 585-593.	1.8	50
56	A Virus-Inducible Tobacco Gene Encoding a Glycine-Rich Protein Shares Putative Regulatory Elements with the Ribulose Bisphosphate Carboxylase Small Subunit Gene. <i>Molecular Plant-Microbe Interactions</i> , 1988, 1, 107.	1.4	50
57	The Endo-Arabinanase BcAra1 Is a Novel Host-Specific Virulence Factor of the Necrotic Fungal Phytopathogen <i>Botrytis cinerea</i> . <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 781-792.	1.4	44
58	<i>Botrytis cinerea</i> mutants deficient in d-galacturonic acid catabolism have a perturbed virulence on <i>Nicotiana benthamiana</i> and <i>Arabidopsis</i> , but not on tomato. <i>Molecular Plant Pathology</i> , 2013, 14, 19-29.	2.0	43
59	Natural variation in virulence of the entomopathogenic fungus <i>Beauveria bassiana</i> against malaria mosquitoes. <i>Malaria Journal</i> , 2014, 13, 479.	0.8	43
60	RNA Information Warfare™ in Pathogenic and Mutualistic Interactions. <i>Trends in Plant Science</i> , 2016, 21, 738-748.	4.3	42
61	Functional Analysis of Mating Type Genes and Transcriptome Analysis during Fruiting Body Development of <i>Botrytis cinerea</i> . <i>MBio</i> , 2018, 9, .	1.8	40
62	Distinct immune sensor systems for fungal endopolygalacturonases in closely related Brassicaceae. <i>Nature Plants</i> , 2021, 7, 1254-1263.	4.7	40
63	Repeated loss of an anciently horizontally transferred gene cluster in <i>Botrytis</i> . <i>Mycologia</i> , 2013, 105, 1126-1134.	0.8	39
64	Cloning and characterization of a glutathione S-transferase homologue from the plant pathogenic fungus <i>Botrytis cinerea</i> . <i>Molecular Plant Pathology</i> , 2000, 1, 169-178.	2.0	38
65	Comparative genomics of <i>Beauveria bassiana</i> : uncovering signatures of virulence against mosquitoes. <i>BMC Genomics</i> , 2016, 17, 986.	1.2	38
66	A Novel <i>Botrytis</i> Species Is Associated with a Newly Emergent Foliar Disease in Cultivated <i>Hemerocallis</i> . <i>PLoS ONE</i> , 2014, 9, e89272.	1.1	35
67	Aspartic Acid Protease from <i>Botrytis cinerea</i> Removes Haze-Forming Proteins during White Winemaking. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 130925134142009.	2.4	33
68	Partial stem and leaf resistance against the fungal pathogen <i>Botrytis cinerea</i> in wild relatives of tomato. <i>European Journal of Plant Pathology</i> , 2007, 117, 153-166.	0.8	32
69	Plant Defence Compounds Against <i>Botrytis</i> Infection. , 2007, , 143-161.		31
70	A novel Z ₂ C ₆ transcription factor BcGaaR regulates d-galacturonic acid utilization in <i>Botrytis cinerea</i> . <i>Molecular Microbiology</i> , 2016, 100, 247-262.	1.2	31
71	Genome-wide analysis of pectate-induced gene expression in <i>Botrytis cinerea</i> : Identification and functional analysis of putative d-galacturonate transporters. <i>Fungal Genetics and Biology</i> , 2014, 72, 182-191.	0.9	30
72	Extracellular Enzymes and Metabolites Involved in Pathogenesis of <i>Botrytis</i> . , 2007, , 99-118.		29

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73	Bitter and sweet make tomato hard to (b)eat. <i>New Phytologist</i> , 2021, 230, 90-100.	3.5	29
74	Quantitative resistance to <i>Botrytis cinerea</i> from <i>Solanum neorickii</i> . <i>Euphytica</i> , 2008, 159, 83-92.	0.6	27
75	Deciphering the <i>Monilinia fructicola</i> Genome to Discover Effector Genes Possibly Involved in Virulence. <i>Genes</i> , 2021, 12, 568.	1.0	23
76	The pOT and pLOB vector systems: Improving ease of transgene expression in <i>Botrytis cinerea</i> . <i>Journal of General and Applied Microbiology</i> , 2008, 54, 367-376.	0.4	22
77	The <i>FRP1</i> β gene has different functions in sexuality, pathogenicity and metabolism in three fungal pathogens. <i>Molecular Plant Pathology</i> , 2011, 12, 548-563.	2.0	22
78	Experimental evolution to increase the efficacy of the entomopathogenic fungus <i>Beauveria bassiana</i> against malaria mosquitoes: Effects on mycelial growth and virulence. <i>Evolutionary Applications</i> , 2017, 10, 433-443.	1.5	22
79	Dynamics in Secondary Metabolite Gene Clusters in Otherwise Highly Syntenic and Stable Genomes in the Fungal Genus <i>Botrytis</i> . <i>Genome Biology and Evolution</i> , 2020, 12, 2491-2507.	1.1	22
80	The Top 10 fungal pathogens in molecular plant pathology. <i>Molecular Plant Pathology</i> , 2012, , no-no.	2.0	22
81	Functional analysis of hydrophobin genes in sexual development of <i>Botrytis cinerea</i> . <i>Fungal Genetics and Biology</i> , 2014, 71, 42-51.	0.9	21
82	Red light imaging for programmed cell death visualization and quantification in plant-pathogen interactions. <i>Molecular Plant Pathology</i> , 2021, 22, 361-372.	2.0	21
83	The Genome of <i>Botrytis cinerea</i> , a Ubiquitous Broad Host Range Necrotroph. , 2014, , 19-44.		21
84	Silencing of DND1 in potato and tomato impedes conidial germination, attachment and hyphal growth of <i>Botrytis cinerea</i> . <i>BMC Plant Biology</i> , 2017, 17, 235.	1.6	20
85	The obligate alkalophilic soda-lake fungus <i>Sodiomyces alkalinus</i> has shifted to a protein diet. <i>Molecular Ecology</i> , 2018, 27, 4808-4819.	2.0	20
86	The aspartic proteinase family of three <i>Phytophthora</i> species. <i>BMC Genomics</i> , 2011, 12, 254.	1.2	19
87	Inadvertent gene silencing of argininosuccinate synthase (<i>bcass1</i>) in <i>Botrytis cinerea</i> by the pLOB1 vector system. <i>Molecular Plant Pathology</i> , 2010, 11, 613-624.	2.0	18
88	BcSUN1, a <i>B. cinerea</i> SUN-Family Protein, Is Involved in Virulence. <i>Frontiers in Microbiology</i> , 2017, 8, 35.	1.5	18
89	Extensive Expansion of A1 Family Aspartic Proteinases in Fungi Revealed by Evolutionary Analyses of 107 Complete Eukaryotic Proteomes. <i>Genome Biology and Evolution</i> , 2014, 6, 1480-1494.	1.1	17
90	AFLP analysis of genetic diversity in populations of <i>Botrytis elliptica</i> and <i>Botrytis tulipae</i> from the Netherlands. <i>European Journal of Plant Pathology</i> , 2007, 117, 219-235.	0.8	14

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91	Sexual mating of <i>Botrytis cinerea</i> illustrates PRP8 intein HEG activity. <i>Fungal Genetics and Biology</i> , 2010, 47, 392-398.	0.9	13
92	14 Pectin as a Barrier and Nutrient Source for Fungal Plant Pathogens. , 2013, , 361-375.		11
93	Peeling the Onion: Towards a Better Understanding of <i>Botrytis</i> Diseases of Onion. <i>Phytopathology</i> , 2021, 111, 464-473.	1.1	11
94	Comparative Genomics Used to Predict Virulence Factors and Metabolic Genes among <i>Monilinia</i> Species. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 464.	1.5	11
95	Mating type and sexual fruiting body of <i>Botrytis elliptica</i> , the causal agent of fire blight in lily. <i>European Journal of Plant Pathology</i> , 2015, 142, 615-624.	0.8	9
96	Cytotoxic activity of Nep1-like proteins on monocots. <i>New Phytologist</i> , 2022, 235, 690-700.	3.5	9
97	Structure and Expression In planta of <i>Botrytis cinerea</i> Ubiquitin Genes. <i>European Journal of Plant Pathology</i> , 2000, 106, 693-698.	0.8	7
98	PRP8 inteins in species of the genus <i>Botrytis</i> and other ascomycetes. <i>Fungal Genetics and Biology</i> , 2012, 49, 250-261.	0.9	7
99	Visualization of Three Sclerotiniaceae Species Pathogenic on Onion Reveals Distinct Biology and Infection Strategies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1865.	1.8	5
100	Fire Blight Susceptibility in <i>Lilium</i> spp. Correlates to Sensitivity to <i>Botrytis elliptica</i> Secreted Cell Death Inducing Compounds. <i>Frontiers in Plant Science</i> , 2021, 12, 660337.	1.7	5
101	Bcmimp1, a <i>Botrytis cinerea</i> Gene Transiently Expressed in planta, Encodes a Mitochondrial Protein. <i>Frontiers in Microbiology</i> , 2016, 7, 213.	1.5	3
102	A Major Effect Gene Controlling Development and Pathogenicity in <i>Botrytis cinerea</i> Identified Through Genetic Analysis of Natural Mycelial Non-pathogenic Isolates. <i>Frontiers in Plant Science</i> , 2021, 12, 663870.	1.7	3
103	Necrotrophic Fungi: Live and Let Die. , 0, , 645-659.		0