Guido Van den Ackerveken

List of Publications by Year
in descending order

77 papers	8,721 citations	57758 44 h-index	74163 75 g-index
82 all docs	82 docs citations	82 times ranked	7356 citing authors

#	Article	IF	Citations
1	Independently Evolved Virulence Effectors Converge onto Hubs in a Plant Immune System Network. Science, 2011, 333, 596-601.	12.6	776
2	The Top 10 oomycete pathogens in molecular plant pathology. Molecular Plant Pathology, 2015, 16, 413-434.	4.2	695
3	Signatures of Adaptation to Obligate Biotrophy in the <i>Hyaloperonospora arabidopsidis</i> Genome. Science, 2010, 330, 1549-1551.	12.6	492
4	An RLP23â€“SOBIR1â€“BAK1 complex mediates NLP-triggered immunity. Nature Plants, 2015, 1, 15140.	9.3	373
5	Recognition of the Bacterial Avirulence Protein AvrBs3 Occurs inside the Host Plant Cell. Cell, 1996, 87, 1307-1316.	28.9	340
6	Regulatory network construction in Arabidopsis by using genome-wide gene expression quantitative trait loci. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1708-1713.	7.1	329
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. Molecular Plant-Microbe Interactions, 1991, 4, 52.	2.6	305
8	HrpG, a Key<i>hrp</i>Regulatory Protein of<i>Xanthomonas campestris</i>pv.<i>vesicatoria</i>Is Homologous to Two-Component Response Regulators. Molecular Plant-Microbe Interactions, 1996, 9, 704.	2.6	252
9	Fungal Endopolygalacturonases Are Recognized as Microbe-Associated Molecular Patterns by the Arabidopsis Receptor-Like Protein RESPONSIVENESS TO BOTRYTIS POLYGALACTURONASES1 Â. Plant Physiology, 2014, 164, 352-364.	4.8	249
10	Molecular analysis of the avirulence gene avr9 of the fungal tomato pathogen Cladosporium fulvum fully supports the gene-for-gene hypothesis.. Plant Journal, 1992, 2, 359-366.	5.7	233
11	Distinctive Expansion of Potential Virulence Genes in the Genome of the Oomycete Fish Pathogen Saprolegnia parasitica. PLoS Genetics, 2013, 9, e1003272.	3.5	221
12	Multiple Candidate Effectors from the Oomycete Pathogen Hyaloperonospora arabidopsidis Suppress Host Plant Immunity. PLoS Pathogens, 2011, 7, e1002348.	4.7	212
13	Nep1-like proteins from three kingdoms of life act as a microbe-associated molecular pattern in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16955-16960.	7.1	189
14	The Xanthomonas Type III Effector Protein AvrBs3 Modulates Plant Gene Expression and Induces Cell Hypertrophy in the Susceptible Host. Molecular Plant-Microbe Interactions, 2002, 15, 637-646.	2.6	184
15	Arabidopsis <i>DMR6</i> encodes a putative 2OGâ€Fe(II) oxygenase that is defenseâ€associated but required for susceptibility to downy mildew. Plant Journal, 2008, 54, 785-793.	5.7	183
16	<scp>DOWNY MILDEW RESISTANT</scp> 6 and <scp>DMR</scp>6â€<scp>LIKE OXYGENASE</scp> 1 are partially redundant but distinct suppressors of immunity in Arabidopsis. Plant Journal, 2015, 81, 210-222.	5.7	168
17	A Conserved Peptide Pattern from a Widespread Microbial Virulence Factor Triggers Pattern-Induced Immunity in Arabidopsis. PLoS Pathogens, 2014, 10, e1004491.	4.7	166
18	<i>Arabidopsis</i> JASMONATE-INDUCED OXYGENASES down-regulate plant immunity by hydroxylation and inactivation of the hormone jasmonic acid. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6388-6393.	7.1	165

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19	Eukaryotic features of the Xanthomonas type III effector AvrBs3: protein domains involved in transcriptional activation and the interaction with nuclear import receptors from pepper. Plant Journal, 2001, 26, 523-534.	5.7	158
20	Nitrogen limitation induces expression of the avirulence gene avr9 in the tomato pathogen Cladosporium fulvum. Molecular Genetics and Genomics, 1994, 243, 277-285.	2.4	140
21	Salicylic Acid Steers the Growthâ€“Immunity Tradeoff. Trends in Plant Science, 2020, 25, 566-576.	8.8	139
22	Genome analyses of the sunflower pathogen Plasmopara halstedii provide insights into effector evolution in downy mildews and Phytophthora. BMC Genomics, 2015, 16, 741.	2.8	135
23	HrpB2 and HrpF from Xanthomonas are type III-secreted proteins and essential for pathogenicity and recognition by the host plant. Molecular Microbiology, 2000, 38, 828-838.	2.5	134
24	Quantification of disease progression of several microbial pathogens onArabidopsis thalianausing real-time fluorescence PCR. FEMS Microbiology Letters, 2003, 228, 241-248.	1.8	128
25	The AVR9 Race-Specific Elicitor of Cladosporium fulvum Is Processed by Endogenous and Plant Proteases. Plant Physiology, 1993, 103, 91-96.	4.8	125
26	How do oomycete effectors interfere with plant life?. Current Opinion in Plant Biology, 2011, 14, 407-414.	7.1	119
27	Susceptibility to plant disease: more than a failure of host immunity. Trends in Plant Science, 2013, 18, 546-554.	8.8	114
28	The In Planta-Produced Extracellular Proteins ECP1 and ECP2 of Cladosporium fulvum Are Virulence Factors. Molecular Plant-Microbe Interactions, 1997, 10, 725-734.	2.6	112
29	Comparative and Functional Analysis of the Widely Occurring Family of Nep1-Like Proteins. Molecular Plant-Microbe Interactions, 2014, 27, 1081-1094.	2.6	105
30	Nontoxic Nep1-Like Proteins of the Downy Mildew Pathogen <i>Hyaloperonospora arabidopsidis</i>: Repression of Necrosis-Inducing Activity by a Surface-Exposed Region. Molecular Plant-Microbe Interactions, 2012, 25, 697-708.	2.6	100
31	Downy Mildew Resistance in <i>Arabidopsis</i> by Mutation of <i>HOMOSERINE KINASE</i> Â. Plant Cell, 2009, 21, 2179-2189.	6.6	93
32	Recognition of bacterial avirulence proteins occurs inside the plant cell: a general phenomenon in resistance to bacterial diseases?. Plant Journal, 1997, 12, 1-7.	5.7	92
33	Identification of Arabidopsis Loci Required for Susceptibility to the Downy Mildew Pathogen Hyaloperonospora parasitica. Molecular Plant-Microbe Interactions, 2005, 18, 583-592.	2.6	89
34	Characterization of Two Putative Pathogenicity Genes of the Fungal Tomato PathogenCladosporium fulvum. Molecular Plant-Microbe Interactions, 1993, 6, 210.	2.6	84
35	Genetic Mapping and Functional Analysis of the Tomato Bs4 Locus Governing Recognition of the Xanthomonas campestris pv. vesicatoria AvrBs4 Protein. Molecular Plant-Microbe Interactions, 2001, 14, 629-638.	2.6	82
36	A Domain-Centric Analysis of Oomycete Plant Pathogen Genomes Reveals Unique Protein Organization Â Â. Plant Physiology, 2011, 155, 628-644.	4.8	79

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37	Powdery Mildew Resistance in Tomato by Impairment of SlPMR4 and SlDMR1. PLoS ONE, 2013, 8, e67467.	2.5	74
38	Activity and Phylogenetics of the Broadly Occurring Family of Microbial Nep1-Like Proteins. Annual Review of Phytopathology, 2019, 57, 367-386.	7.8	70
39	Regulatory Network Identification by Genetical Genomics: Signaling Downstream of the Arabidopsis Receptor-Like Kinase ERECTA. Plant Physiology, 2010, 154, 1067-1078.	4.8	59
40	Identification of Hyaloperonospora arabidopsidis Transcript Sequences Expressed during Infection Reveals Isolate-Specific Effectors. PLoS ONE, 2011, 6, e19328.	2.5	59
41	Extracellular Recognition of Oomycetes during Biotrophic Infection of Plants. Frontiers in Plant Science, 2016, 7, 906.	3.6	53
42	Type III secretion and in planta recognition of the Xanthomonas avirulence proteins AvrBs1 and AvrBsT. Molecular Plant Pathology, 2001, 2, 287-296.	4.2	52
43	Effector identification in the lettuce downy mildew <i>Bremia lactucae</i> by massively parallel transcriptome sequencing. Molecular Plant Pathology, 2012, 13, 719-731.	4.2	52
44	Specific In Planta Recognition of Two GKLR Proteins of the Downy Mildew <i>Bremia lactucae</i> Revealed in a Large Effector Screen in Lettuce. Molecular Plant-Microbe Interactions, 2013, 26, 1259-1270.	2.6	52
45	Gene-for-gene interactions: bacterial avirulence proteins specify plant disease resistance. Current Opinion in Microbiology, 1999, 2, 94-98.	5.1	50
46	Disease-Specific Expression of Host Genes During Downy Mildew Infection of <i>Arabidopsis</i>. Molecular Plant-Microbe Interactions, 2009, 22, 1104-1115.	2.6	46
47	Reconstruction of Oomycete Genome Evolution Identifies Differences in Evolutionary Trajectories Leading to Present-Day Large Gene Families. Genome Biology and Evolution, 2012, 4, 199-211.	2.5	44
48	Genetical Genomics Reveals Large Scale Genotype-By-Environment Interactions in Arabidopsis thaliana. Frontiers in Genetics, 2012, 3, 317.	2.3	40
49	Stop helping pathogens: engineering plant susceptibility genes for durable resistance. Current Opinion in Biotechnology, 2021, 70, 187-195.	6.6	38
50	Membrane-associated transcripts in Arabidopsis; their isolation and characterization by DNA microarray analysis and bioinformatics. Plant Journal, 2006, 46, 708-721.	5.7	33
51	Bacterial avirulence proteins as triggers of plant disease resistance. Trends in Microbiology, 1997, 5, 394-398.	7.7	32
52	Oomycetes Used in Arabidopsis Research. The Arabidopsis Book, 2019, 17, e0188.	0.5	30
53	Effectorâ€mediated discovery of a novel resistance gene against Bremia lactucae in a nonhost lettuce species. New Phytologist, 2017, 216, 915-926.	7.3	28
54	Multiple downy mildew effectors target the stressâ€related <scp>NAC</scp> transcription factor Ls<scp>NAC</scp>069 in lettuce. Plant Journal, 2019, 99, 1098-1115.	5.7	27

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55	The in-planta induced ecp2 gene of the tomato pathogen Cladosporium fulvum is not essential for pathogenicity. Current Genetics, 1994, 26, 245-250.	1.7	26
56	Broadâ€spectrum resistance of <scp>A</scp>rabidopsis <scp>C</scp>24 to downy mildew is mediated by different combinations of isolateâ€specific loci. New Phytologist, 2012, 196, 1171-1181.	7.3	26
57	The Arabidopsis mutant iop1 exhibits induced over-expression of the plant defensin gene PDF1.2 and enhanced pathogen resistance. Molecular Plant Pathology, 2003, 4, 479-486.	4.2	22
58	Structure-guided analysis of Arabidopsis JASMONATE-INDUCED OXYGENASE (JOX) 2 reveals key residues for recognition of jasmonic acid substrate by plant JOXs. Molecular Plant, 2021, 14, 820-828.	8.3	20
59	How the bacterial plant pathogen Xanthomonas campestris pv. vesicatoria conquers the host. Molecular Plant Pathology, 2000, 1, 73-76.	4.2	15
60	How plants differ in toxin-sensitivity. Science, 2017, 358, 1383-1384.	12.6	15
61	The Genome of <i>Peronospora belbahrii</i> Reveals High Heterozygosity, a Low Number of Canonical Effectors, and TC-Rich Promoters. Molecular Plant-Microbe Interactions, 2020, 33, 742-753.	2.6	15
62	Genome reconstruction of the non-culturable spinach downy mildew Peronospora effusa by metagenome filtering. PLoS ONE, 2020, 15, e0225808.	2.5	14
63	Functional Analysis of Hyaloperonospora arabidopsidis RXLR Effectors. PLoS ONE, 2014, 9, e110624.	2.5	14
64	Grapevine DMR6-1 Is a Candidate Gene for Susceptibility to Downy Mildew. Biomolecules, 2022, 12, 182.	4.0	14
65	Sensor-based phenotyping of above-ground plant-pathogen interactions. Plant Methods, 2022, 18, 35.	4.3	14
66	Recognition of lettuce downy mildew effector BLR38 in <i>Lactuca serriola</i> LS102 requires two unlinked loci. Molecular Plant Pathology, 2019, 20, 240-253.	4.2	13
67	Bioinformatic Inference of Specific and General Transcription Factor Binding Sites in the Plant Pathogen Phytophthora infestans. PLoS ONE, 2012, 7, e51295.	2.5	13
68	Quantification of plant morphology and leaf thickness with optical coherence tomography. Applied Optics, 2020, 59, 10304.	1.8	13
69	Molecular characerization of the interaction between the fungal pathogen Cladosporium fulvum and tomato. Euphytica, 1994, 79, 219-225.	1.2	10
70	Molecular communication between host plant and the fungal tomato pathogenCladosporium fulvum. Antonie Van Leeuwenhoek, 1994, 65, 257-262.	1.7	10
71	Host interactors of effector proteins of the lettuce downy mildew Bremia lactucae obtained by yeast two-hybrid screening. PLoS ONE, 2020, 15, e0226540.	2.5	10
72	Trans-Repression of Gene Activity Upstream of T-DNA Tagged RLK902 Links Arabidopsis Root Growth Inhibition and Downy Mildew Resistance. PLoS ONE, 2011, 6, e19028.	2.5	10

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73	Insect eggs trigger systemic acquired resistance against a fungal and an oomycete pathogen. New Phytologist, 2021, 232, 2491-2505.	7.3	9
74	Sexual reproduction contributes to the evolution of resistanceâ€breaking isolates of the spinach pathogen <i>Peronospora effusa</i>. Environmental Microbiology, 2022, 24, 1622-1637.	3.8	8
75	Seeing is believing: imaging the delivery of pathogen effectors during plant infection. New Phytologist, 2017, 216, 8-10.	7.3	5
76	Erratum. Molecular Plant Pathology, 2002, 3, 61-61.	4.2	0
77	Fungal and Oomycete Biotrophy. , 0, , 77-101.		0