Andrew F Bent

List of Publications by Year
in descending order

77 papers	28,162 citations	47006 47 h-index	82547 72 g-index
96 all docs	96 docs citations	96 times ranked	22794 citing authors

#	Article	IF	Citations
1	Floral dip: a simplified method for<i>Agrobacterium</i>â€mediated transformation of<i>Arabidopsis thaliana</i>. Plant Journal, 1998, 16, 735-743.	5.7	19,148
2	RPS2 of Arabidopsis thaliana: a leucine-rich repeat class of plant disease resistance genes. Science, 1994, 265, 1856-1860.	12.6	929
3	Elicitors, Effectors, andRGenes: The New Paradigm and a Lifetime Supply of Questions. Annual Review of Phytopathology, 2007, 45, 399-436.	7.8	668
4	Identification of Pseudomonas syringae pathogens of Arabidopsis and a bacterial locus determining avirulence on both Arabidopsis and soybean.. Plant Cell, 1991, 3, 49-59.	6.6	632
5	Copy Number Variation of Multiple Genes at <i>Rhg1</i> Mediates Nematode Resistance in Soybean. Science, 2012, 338, 1206-1209.	12.6	535
6	The Arabidopsis dnd1 "defense, no death" gene encodes a mutated cyclic nucleotide-gated ion channel. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9323-9328.	7.1	523
7	Gene-for-gene disease resistance without the hypersensitive response in Arabidopsis dnd1 mutant. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 7819-7824.	7.1	432
8	MEKK1 Is Required for flg22-Induced MPK4 Activation in Arabidopsis Plants. Plant Physiology, 2007, 143, 661-669.	4.8	306
9	RPS2, an Arabidopsis disease resistance locus specifying recognition of Pseudomonas syringae strains expressing the avirulence gene avrRpt2.. Plant Cell, 1993, 5, 865-875.	6.6	303
10	Disease Development in Ethylene-Insensitive<i>Arabidopsis thaliana</i>Infected with Virulent and Avirulent<i>Pseudomonas</i>and<i>Xanthomonas</i>Pathogens. Molecular Plant-Microbe Interactions, 1992, 5, 372.	2.6	252
11	Female Reproductive Tissues Are the Primary Target ofAgrobacterium-Mediated Transformation by the Arabidopsis Floral-Dip Method1. Plant Physiology, 2000, 123, 895-904.	4.8	237
12	Molecular analysis of avirulence gene avrRpt2 and identification of a putative regulatory sequence common to all known Pseudomonas syringae avirulence genes. Journal of Bacteriology, 1993, 175, 4859-4869.	2.2	196
13	Arabidopsis in Planta Transformation. Uses, Mechanisms, and Prospects for Transformation of Other Species. Plant Physiology, 2000, 124, 1540-1547.	4.8	190
14	Arabidopsis DND2, a Second Cyclic Nucleotide-Gated Ion Channel Gene for Which Mutation Causes the â€œDefense, No Deathâ€•Phenotype. Molecular Plant-Microbe Interactions, 2004, 17, 511-520.	2.6	190
15	Isolation of Ethylene-Insensitive Soybean Mutants That Are Altered in Pathogen Susceptibility and Gene-for-Gene Disease Resistance1. Plant Physiology, 1999, 119, 935-950.	4.8	187
16	Within-Species Flagellin Polymorphism in Xanthomonas campestris pv campestris and Its Impact on Elicitation of Arabidopsis FLAGELLIN SENSING2â€“Dependent Defenses. Plant Cell, 2006, 18, 764-779.	6.6	181
17	Global expression analysis of nucleotide binding site-leucine rich repeat-encoding and related genes in Arabidopsis. BMC Plant Biology, 2007, 7, 56.	3.6	166
18	<i>Arabidopsis thaliana</i> Floral Dip Transformation Method. , 2006, 343, 87-104.		155

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19	Identification of Pseudomonas syringae Pathogens of Arabidopsis and a Bacterial Locus Determining Avirulence on Both Arabidopsis and Soybean. Plant Cell, 1991, 3, 49.	6.6	137
20	Distinct Copy Number, Coding Sequence, and Locus Methylation Patterns Underlie Rhg1-Mediated Soybean Resistance to Soybean Cyst Nematode Â Â. Plant Physiology, 2014, 165, 630-647.	4.8	136
21	Induction of Lactate Dehydrogenase Isozymes by Oxygen Deficit in Barley Root Tissue. Plant Physiology, 1986, 82, 658-663.	4.8	123
22	Disruption of Poly(ADP-ribosyl)ation Mechanisms Alters Responses of Arabidopsis to Biotic Stress. Plant Physiology, 2009, 152, 267-280.	4.8	118
23	Flagellin Is Not a Major Defense Elicitor in Ralstonia solanacearum Cells or Extracts Applied to Arabidopsis thaliana. Molecular Plant-Microbe Interactions, 2004, 17, 696-706.	2.6	111
24	A Cyclic Nucleotide-Gated Ion Channel, CNGC2, Is Crucial for Plant Development and Adaptation to Calcium Stress. Plant Physiology, 2003, 132, 728-731.	4.8	106
25	Regulation of Soybean Nodulation Independent of Ethylene Signaling1. Plant Physiology, 1999, 119, 951-960.	4.8	105
26	Probing the <i>Arabidopsis</i> Flagellin Receptor: FLS2-FLS2 Association and the Contributions of Specific Domains to Signaling Function. Plant Cell, 2012, 24, 1096-1113.	6.6	104
27	Probing plant-pathogen interactions and downstream defense signaling using DNA microarrays. Functional and Integrative Genomics, 2002, 2, 259-273.	3.5	102
28	Microbial Pathogens Trigger Host DNA Double-Strand Breaks Whose Abundance Is Reduced by Plant Defense Responses. PLoS Pathogens, 2014, 10, e1004030.	4.7	99
29	Identification and Mutational Analysis of <i>Arabidopsis</i> FLS2 Leucine-Rich Repeat Domain Residues That Contribute to Flagellin Perception. Plant Cell, 2007, 19, 3297-3313.	6.6	97
30	Poly(ADP-ribosyl)ation in plants. Trends in Plant Science, 2011, 16, 372-380.	8.8	94
31	Plant Disease Resistance Genes: Function Meets Structure. Plant Cell, 1996, 8, 1757.	6.6	93
32	Identification of a disease resistance locus in Arabidopsis that is functionally homologous to the RPG1 locus of soybean. Plant Journal, 1993, 4, 813-820.	5.7	92
33	Signaling Pathways That Regulate the Enhanced Disease Resistance of <i>Arabidopsis</i> â€œ<i>Defense, No Death</i>â€•Mutants. Molecular Plant-Microbe Interactions, 2008, 21, 1285-1296.	2.6	92
34	PARP2 Is the Predominant Poly(ADP-Ribose) Polymerase in Arabidopsis DNA Damage and Immune Responses. PLoS Genetics, 2015, 11, e1005200.	3.5	90
35	A nematode demographics assay in transgenic roots reveals no significant impacts of the Rhg1locus LRR-Kinase on soybean cyst nematode resistance. BMC Plant Biology, 2010, 10, 104.	3.6	77
36	Disease resistance through impairment of Î±-SNAPâ€"NSF interaction and vesicular trafficking by soybean <i>Rhg1</i>. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7375-E7382.	7.1	71

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37	The Leucine-Rich Repeat Domain Can Determine Effective Interaction Between <i>RPS2</i> and Other Host Factors in Arabidopsis <i>RPS2</i>-Mediated Disease Resistance. Genetics, 2001, 158, 439-450.	2.9	66
38	Plant mitogen-activated protein kinase cascades: Negative regulatory roles turn out positive. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 784-786.	7.1	65
39	The Arabidopsis flagellin receptor FLS2 mediates the perception of Xanthomonas Ax21 secreted peptides. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9286-9291.	7.1	62
40	Rice OsFLS2-Mediated Perception of Bacterial Flagellins Is Evaded by Xanthomonas oryzae pvs. oryzae and oryzicola. Molecular Plant, 2015, 8, 1024-1037.	8.3	60
41	An atypical N-ethylmaleimide sensitive factor enables the viability of nematode-resistant Rhg1 soybeans. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4512-E4521.	7.1	58
42	Deciphering host resistance and pathogen virulence: the Arabidopsis /Pseudomonas interaction as a model. Molecular Plant Pathology, 2003, 4, 517-530.	4.2	57
43	Discovery of ADP-Ribosylation and Other Plant Defense Pathway Elements Through Expression Profiling of Four Different <i>Arabidopsisâ€"Pseudomonas R-avr</i> Interactions. Molecular Plant-Microbe Interactions, 2008, 21, 646-657.	2.6	57
44	Mutations in FLS2 Ser-938 Dissect Signaling Activation in FLS2-Mediated Arabidopsis Immunity. PLoS Pathogens, 2013, 9, e1003313.	4.7	57
45	Fine Mapping of the SCN Resistance Locus <i>rhg1â€b</i> from PI 88788. Plant Genome, 2010, 3, .	2.8	56
46	Molecular Markers Linked to Brown Stem Rot Resistance Genes, <i>Rbs₁</i> and <i>Rbs₂</i>, in Soybean. Crop Science, 2001, 41, 527-535.	1.8	53
47	Identification of Arabidopsis Mutants Exhibiting an Altered Hypersensitive Response in Gene-for-Gene Disease Resistance. Molecular Plant-Microbe Interactions, 2000, 13, 277-286.	2.6	51
48	A Second T-Region of the Soybean-Supervirulent Chrysopine-Type Ti Plasmid pTiChry5, and Construction of a Fully Disarmed vir Helper Plasmid. Molecular Plant-Microbe Interactions, 2000, 13, 1081-1091.	2.6	47
49	LRR Conservation Mapping to Predict Functional Sites within Protein Leucine-Rich Repeat Domains. PLoS ONE, 2011, 6, e21614.	2.5	46
50	Identification and Map Location of<i>TTR1,</i>a Single Locus in<i>Arabidopsis thaliana</i>that Confers Tolerance to Tobacco Ringspot Nepovirus. Molecular Plant-Microbe Interactions, 1996, 9, 729.	2.6	40
51	Agrobacterium Germ-Line Transformation: Transformation of Arabidopsis without Tissue Culture. , 1998, , 17-30.		30
52	The <i>rhg1â€a</i> (<i>Rhg1</i> lowâ€copy) nematode resistance source harbors a copiaâ€family retrotransposon within the <i>Rhg1â€</i>encoded Î±â€SNAP gene. Plant Direct, 2019, 3, e00164.	1.9	27
53	FLS2-BAK1 Extracellular Domain Interaction Sites Required for Defense Signaling Activation. PLoS ONE, 2014, 9, e111185.	2.5	23
54	Type III secretionâ€dependent host defence elicitation and type III secretionâ€independent growth within leaves by <i>Xanthomonas campestris</i> pv. <i>campestris</i>. Molecular Plant Pathology, 2011, 12, 731-745.	4.2	20

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55	Applications of Molecular Biology to Plant Disease and Insect Resistance. Advances in Agronomy, 1999, , 251-298.	5.2	18
56	Agrobacterium-mediated vacuum infiltration and floral dip transformation of rapid-cycling Brassica rapa. BMC Plant Biology, 2019, 19, 246.	3.6	18
57	Underexplored Niches in Research on Plant Pathogenic Bacteria. Plant Physiology, 2009, 150, 1631-1637.	4.8	17
58	Arabidopsis TTR1 Causes LRR-Dependent Lethal Systemic Necrosis, rather than Systemic Acquired Resistance, to Tobacco Ringspot Virus. Molecules and Cells, 2011, 32, 421-430.	2.6	17
59	A transcriptomics approach uncovers novel roles for poly(ADP-ribosyl)ation in the basal defense response in Arabidopsis thaliana. PLoS ONE, 2017, 12, e0190268.	2.5	16
60	Soybean Resistance Locus <i>Rhg1</i> Confers Resistance to Multiple Cyst Nematodes in Diverse Plant Species. Phytopathology, 2019, 109, 2107-2115.	2.2	16
61	Identification and functional analysis of Arabidopsis proteins that interact with resistance gene product RPS2 in yeast. Physiological and Molecular Plant Pathology, 2004, 65, 257-267.	2.5	14
62	Coordinated regulation of plant immunity by poly(ADP-ribosyl)ation and K63-linked ubiquitination. Molecular Plant, 2021, 14, 2088-2103.	8.3	14
63	Diseaseâ€•and Performanceâ€Related Traits of Ethyleneâ€Insensitive Soybean. Crop Science, 2006, 46, 893-901.	1.8	12
64	Directed Evolution of FLS2 towards Novel Flagellin Peptide Recognition. PLoS ONE, 2016, 11, e0157155.	2.5	11
65	Resistance from relatives. Nature Biotechnology, 2016, 34, 620-621.	17.5	10
66	3-Aminobenzamide Blocks MAMP-Induced Callose Deposition Independently of Its Poly(ADPribosyl)ation Inhibiting Activity. Frontiers in Plant Science, 2018, 9, 1907.	3.6	10
67	Soybean Cyst Nematode Resistance Quantitative Trait Locus <i>cqSCN-006</i> Alters the Expression of a Î³-SNAP Protein. Molecular Plant-Microbe Interactions, 2021, 34, 1433-1445.	2.6	10
68	Exploring Soybean Resistance to Soybean Cyst Nematode. Annual Review of Phytopathology, 2022, 60, 379-409.	7.8	10
69	RPS2, an Arabidopsis Disease Resistance Locus Specifying Recognition of Pseudomonas syringae Strains Expressing the Avirulence Gene avrRpt2. Plant Cell, 1993, 5, 865.	6.6	5
70	FLS2-Mediated Responses to Ax21-Derived Peptides: Response to the Mueller et al. Commentary. Plant Cell, 2012, 24, 3174-3176.	6.6	5
71	AGRICULTURE: Reconnecting Farms and Ecosystems- If It Pays. Science, 2002, 298, 1340-1341.	12.6	2
72	Pathogens Drop the Hint: Don't Forget Phytoalexin Pathways. Cell Host and Microbe, 2011, 9, 169-170.	11.0	2

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73	Rhizobium meliloti suhR suppresses the phenotype of an Escherichia coli RNA polymerase sigma 32 mutant. Journal of Bacteriology, 1990, 172, 3559-3568.	2.2	1
74	Detection of rare nematode resistance Rhg1 haplotypes in Glycine soja and a novel Rhg1 Î±â€SNAP. Plant Genome, 2021, , e20152.	2.8	1
75	Arabidopsis as a Model System for Studying Plant Disease Resistance Mechanisms. Annals of the New York Academy of Sciences, 1991, 646, 228-230.	3.8	0
76	Plant disease reality. Trends in Plant Science, 1998, 3, 405-406.	8.8	0
77	Genetic Analysis of Bacterial Disease Resistance in Arabidopsis and Cloning of the RPS2 Resistance Gene. Current Plant Science and Biotechnology in Agriculture, 1994, , 283-288.	0.0	0