

Ian T Baldwin

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499
papers

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101
h-index

172
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533
ext. papers

41,415
ext. citations

6.7
avg, IF

7.75
L-index

#	Paper	IF	Citations
499	Defensive function of herbivore-induced plant volatile emissions in nature. <i>Science</i> , 2001 , 291, 2141-4	33.3	1570
498	Induced Responses to Herbivory 1997 ,		1514
497	Plant responses to insect herbivory: the emerging molecular analysis. <i>Annual Review of Plant Biology</i> , 2002 , 53, 299-328	30.7	1111
496	The evolutionary context for herbivore-induced plant volatiles: beyond the 'cry for help'. <i>Trends in Plant Science</i> , 2010 , 15, 167-75	13.1	769
495	Volatile signaling in plant-plant interactions: "talking trees" in the genomics era. <i>Science</i> , 2006 , 311, 812-5	33.3	629
494	New insights into plant responses to the attack from insect herbivores. <i>Annual Review of Genetics</i> , 2010 , 44, 1-24	14.5	583
493	Jasmonate-induced responses are costly but benefit plants under attack in native populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 8113-8	11.5	580
492	A knock-out mutation in allene oxide synthase results in male sterility and defective wound signal transduction in Arabidopsis due to a block in jasmonic acid biosynthesis. <i>Plant Journal</i> , 2002 , 31, 1-12	6.9	462
491	Fitness costs of induced resistance: emerging experimental support for a slippery concept. <i>Trends in Plant Science</i> , 2002 , 7, 61-7	13.1	456
490	Molecular interactions between the specialist herbivore <i>Manduca sexta</i> (Lepidoptera, Sphingidae) and its natural host <i>Nicotiana attenuata</i> . III. Fatty acid-amino acid conjugates in herbivore oral secretions are necessary and sufficient for herbivore-specific plant responses. <i>Plant Physiology</i> , 2001 , 125, 711-7	6.6	445
489	Silencing the jasmonate cascade: induced plant defenses and insect populations. <i>Science</i> , 2004 , 305, 665-8	33.3	432
488	Herbivory rapidly activates MAPK signaling in attacked and unattacked leaf regions but not between leaves of <i>Nicotiana attenuata</i> . <i>Plant Cell</i> , 2007 , 19, 1096-122	11.6	317
487	Nicotine's defensive function in nature. <i>PLoS Biology</i> , 2004 , 2, E217	9.7	313
486	Antisense LOX expression increases herbivore performance by decreasing defense responses and inhibiting growth-related transcriptional reorganization in <i>Nicotiana attenuata</i> . <i>Plant Journal</i> , 2003 , 36, 794-807	6.9	289
485	Priming of plant defense responses in nature by airborne signaling between <i>Artemisia tridentata</i> and <i>Nicotiana attenuata</i> . <i>Oecologia</i> , 2006 , 148, 280-92	2.9	288
484	SNF1-related kinases allow plants to tolerate herbivory by allocating carbon to roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12935-40	11.5	281
483	Molecular interactions between the specialist herbivore <i>Manduca sexta</i> (Lepidoptera, Sphingidae) and its natural host <i>Nicotiana attenuata</i> . I. Large-scale changes in the accumulation of growth- and defense-related plant mRNAs. <i>Plant Physiology</i> , 2001 , 125, 683-700	6.6	273

482	Field experiments with transformed plants reveal the sense of floral scents. <i>Science</i> , 2008 , 321, 1200-2	33.3	272
481	Agrobacterium-mediated transformation of <i>Nicotiana attenuata</i> , a model ecological expression system. <i>Chemoecology</i> , 2002 , 12, 177-183	2	264
480	Quantification, correlations and manipulations of wound-induced changes in jasmonic acid and nicotine in <i>Nicotiana sylvestris</i> . <i>Planta</i> , 1997 , 201, 397-404	4.7	261
479	Herbivore-induced ethylene suppresses a direct defense but not a putative indirect defense against an adapted herbivore. <i>Planta</i> , 2000 , 210, 336-42	4.7	260
478	Why does herbivore attack reconfigure primary metabolism?. <i>Plant Physiology</i> , 2008 , 146, 845-51	6.6	249
477	Different lepidopteran elicitors account for cross-talk in herbivory-induced phytohormone signaling. <i>Plant Physiology</i> , 2009 , 150, 1576-86	6.6	245
476	Making sense of nectar scents: the effects of nectar secondary metabolites on floral visitors of <i>Nicotiana attenuata</i> . <i>Plant Journal</i> , 2007 , 49, 840-54	6.9	235
475	Herbivory simulations in ecological research. <i>Trends in Ecology and Evolution</i> , 1990 , 5, 91-3	10.9	230
474	Herbivory and caterpillar regurgitants amplify the wound-induced increases in jasmonic acid but not nicotine in <i>Nicotiana sylvestris</i> . <i>Planta</i> , 1997 , 203, 430-435	4.7	225
473	Native root-associated bacteria rescue a plant from a sudden-wilt disease that emerged during continuous cropping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E5013-20	11.5	224
472	Nectar secretion requires sucrose phosphate synthases and the sugar transporter SWEET9. <i>Nature</i> , 2014 , 508, 546-9	50.4	221
471	Ontogeny constrains systemic protease inhibitor response in <i>Nicotiana attenuata</i> . <i>Journal of Chemical Ecology</i> , 2001 , 27, 547-68	2.7	216
470	Manipulation of endogenous trypsin proteinase inhibitor production in <i>Nicotiana attenuata</i> demonstrates their function as antiherbivore defenses. <i>Plant Physiology</i> , 2004 , 134, 1181-90	6.6	213
469	Plant volatiles. <i>Current Biology</i> , 2010 , 20, R392-7	6.3	212
468	Rapid HPLC screening of jasmonate-induced increases in tobacco alkaloids, phenolics, and diterpene glycosides in <i>Nicotiana attenuata</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2001 , 49, 3553-8	5.7	210
467	Shared signals -'alarm calls' from plants increase apparency to herbivores and their enemies in nature. <i>Ecology Letters</i> , 2008 , 11, 24-34	10	208
466	Attracting friends to feast on foes: engineering terpene emission to make crop plants more attractive to herbivore enemies. <i>Current Opinion in Biotechnology</i> , 2003 , 14, 169-76	11.4	207
465	Molecular interactions between the specialist herbivore <i>Manduca sexta</i> (Lepidoptera, Sphingidae) and its natural host <i>Nicotiana attenuata</i> . IV. Insect-Induced ethylene reduces jasmonate-induced nicotine accumulation by regulating putrescine N-methyltransferase transcripts. <i>Plant Physiology</i> , 2001 , 125, 2189-202	6.6	206

464	Co(i)-ordinating defenses: NaCOI1 mediates herbivore- induced resistance in <i>Nicotiana attenuata</i> and reveals the role of herbivore movement in avoiding defenses. <i>Plant Journal</i> , 2007 , 51, 79-91	6.9	204
463	A self-regulatory circuit of CIRCADIAN CLOCK-ASSOCIATED1 underlies the circadian clock regulation of temperature responses in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012 , 24, 2427-42	11.6	203
462	Wound-induced changes in root and shoot jasmonic acid pools correlate with induced nicotine synthesis in <i>Nicotiana sylvestris</i> spegazzini and comes. <i>Journal of Chemical Ecology</i> , 1994 , 20, 2139-57	2.7	203
461	Silencing threonine deaminase and JAR4 in <i>Nicotiana attenuata</i> impairs jasmonic acid-isoleucine-mediated defenses against <i>Manduca sexta</i> . <i>Plant Cell</i> , 2006 , 18, 3303-20	11.6	200
460	The eco-physiological complexity of plant responses to insect herbivores. <i>Planta</i> , 1999 , 208, 137-145	4.7	198
459	Induced plant defenses in the natural environment: <i>Nicotiana attenuata</i> WRKY3 and WRKY6 coordinate responses to herbivory. <i>Plant Cell</i> , 2008 , 20, 1984-2000	11.6	196
458	Relationships among Defoliation, Red Oak Phenolics, and Gypsy Moth Growth and Reproduction. <i>Ecology</i> , 1988 , 69, 267-277	4.6	196
457	Herbivory-induced signalling in plants: perception and action. <i>Plant, Cell and Environment</i> , 2009 , 32, 1161-74	11.4	195
456	Insects betray themselves in nature to predators by rapid isomerization of green leaf volatiles. <i>Science</i> , 2010 , 329, 1075-8	33.3	190
455	The Layers of Plant Responses to Insect Herbivores. <i>Annual Review of Entomology</i> , 2016 , 61, 373-94	21.8	185
454	Herbivore-associated elicitors: FAC signaling and metabolism. <i>Trends in Plant Science</i> , 2011 , 16, 294-9	13.1	182
453	Constitutive and inducible trypsin proteinase inhibitor production incurs large fitness costs in <i>Nicotiana attenuata</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 1607-12	11.5	182
452	Microarray analysis of salicylic acid- and jasmonic acid-signalling in responses of <i>Nicotiana attenuata</i> to attack by insects from multiple feeding guilds. <i>Plant, Cell and Environment</i> , 2004 , 27, 1362-1373	8.4	180
451	Use of real-time PCR for determining copy number and zygosity in transgenic plants. <i>Plant Cell Reports</i> , 2004 , 23, 263-71	5.1	178
450	Native bacterial endophytes promote host growth in a species-specific manner; phytohormone manipulations do not result in common growth responses. <i>PLoS ONE</i> , 2008 , 3, e2702	3.7	176
449	Herbivore-induced plant vaccination. Part I. The orchestration of plant defenses in nature and their fitness consequences in the wild tobacco <i>Nicotiana attenuata</i> . <i>Plant Journal</i> , 2004 , 38, 639-49	6.9	174
448	R2R3-NaMYB8 regulates the accumulation of phenylpropanoid-polyamine conjugates, which are essential for local and systemic defense against insect herbivores in <i>Nicotiana attenuata</i> . <i>Plant Physiology</i> , 2010 , 152, 1731-47	6.6	172
447	Mechanism of damage-induced alkaloid production in wild tobacco. <i>Journal of Chemical Ecology</i> , 1989 , 15, 1661-80	2.7	172

446	Molecular interactions between the specialist herbivore <i>Manduca sexta</i> (Lepidoptera, Sphingidae) and its natural host <i>Nicotiana attenuata</i> . VI. Microarray analysis reveals that most herbivore-specific transcriptional changes are mediated by fatty acid-amino acid conjugates. <i>Plant Physiology</i> , 2003 , 131, 1894-902	6.6	170
445	An Ecologically Motivated Analysis of Plant-Herbivore Interactions in Native Tobacco. <i>Plant Physiology</i> , 2001 , 127, 1449-1458	6.6	169
444	Convergent responses to stress. Solar ultraviolet-B radiation and <i>Manduca sexta</i> herbivory elicit overlapping transcriptional responses in field-grown plants of <i>Nicotiana longiflora</i> . <i>Plant Physiology</i> , 2003 , 132, 1755-67	6.6	165
443	Resistance management in a native plant: nicotine prevents herbivores from compensating for plant protease inhibitors. <i>Ecology Letters</i> , 2007 , 10, 499-511	10	162
442	Dimethyl disulfide produced by the naturally associated bacterium <i>Bacillus</i> sp B55 promotes <i>Nicotiana attenuata</i> growth by enhancing sulfur nutrition. <i>Plant Cell</i> , 2013 , 25, 2731-47	11.6	161
441	Molecular interactions between the specialist herbivore <i>Manduca sexta</i> (Lepidoptera, Sphingidae) and its natural host <i>Nicotiana attenuata</i> : V. microarray analysis and further characterization of large-scale changes in herbivore-induced mRNAs. <i>Plant Physiology</i> , 2003 , 131, 1877-93	6.6	160
440	Transport of [2-14C]jasmonic acid from leaves to roots mimics wound-induced changes in endogenous jasmonic acid pools in <i>Nicotiana sylvestris</i> . <i>Planta</i> , 1997 , 203, 436-441	4.7	155
439	Merging molecular and ecological approaches in plant-insect interactions. <i>Current Opinion in Plant Biology</i> , 2001 , 4, 351-8	9.9	153
438	Up in smoke: I. Smoke-derived germination cues for postfire annual, <i>Nicotiana attenuata</i> Torr. Ex. Watson. <i>Journal of Chemical Ecology</i> , 1994 , 20, 2345-71	2.7	152
437	Volatile signaling in plant-plant-herbivore interactions: what is real?. <i>Current Opinion in Plant Biology</i> , 2002 , 5, 351-4	9.9	151
436	Remote sensing of future competitors: impacts on plant defenses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 7170-4	11.5	150
435	Jasmonate-dependent and -independent pathways mediate specific effects of solar ultraviolet B radiation on leaf phenolics and antiherbivore defense. <i>Plant Physiology</i> , 2010 , 152, 1084-95	6.6	149
434	Jasmonate and ppHsystemin regulate key Malonylation steps in the biosynthesis of 17-Hydroxygeranylinalool Diterpene Glycosides, an abundant and effective direct defense against herbivores in <i>Nicotiana attenuata</i> . <i>Plant Cell</i> , 2010 , 22, 273-92	11.6	142
433	Herbivore-induced plant vaccination. Part II. Array-studies reveal the transience of herbivore-specific transcriptional imprints and a distinct imprint from stress combinations. <i>Plant Journal</i> , 2004 , 38, 650-63	6.9	142
432	Deciphering the Role of Ethylene in Plant-Herbivore Interactions. <i>Journal of Plant Growth Regulation</i> , 2007 , 26, 201-209	4.7	138
431	Comparisons of LIPOXYGENASE3- and JASMONATE-RESISTANT4/6-silenced plants reveal that jasmonic acid and jasmonic acid-amino acid conjugates play different roles in herbivore resistance of <i>Nicotiana attenuata</i> . <i>Plant Physiology</i> , 2008 , 146, 904-15	6.6	133
430	Silencing of hydroperoxide lyase and allene oxide synthase reveals substrate and defense signaling crosstalk in <i>Nicotiana attenuata</i> . <i>Plant Journal</i> , 2004 , 40, 35-46	6.9	133
429	Solar ultraviolet-B radiation and insect herbivory trigger partially overlapping phenolic responses in <i>Nicotiana attenuata</i> and <i>Nicotiana longiflora</i> . <i>Annals of Botany</i> , 2007 , 99, 103-9	4.1	132

428	Molecular interactions between the specialist herbivore <i>Manduca sexta</i> (Lepidoptera, Sphingidae) and its natural host <i>Nicotiana attenuata</i> . VII. Changes in the plant's proteome. <i>Plant Physiology</i> , 2006 , 142, 1621-41	6.6	132
427	Protein binding phenolics and the inhibition of nitrification in subalpine balsam fir soils. <i>Soil Biology and Biochemistry</i> , 1983 , 15, 419-423	7.5	128
426	Tobacco mosaic virus inoculation inhibits wound-induced jasmonic acid-mediated responses within but not between plants. <i>Planta</i> , 1999 , 209, 87-95	4.7	127
425	Leaf-herbivore attack reduces carbon reserves and regrowth from the roots via jasmonate and auxin signaling. <i>New Phytologist</i> , 2013 , 200, 1234-46	9.8	126
424	Trichome-derived O-acyl sugars are a first meal for caterpillars that tags them for predation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 7855-9	11.5	126
423	Using 'mute' plants to translate volatile signals. <i>Plant Journal</i> , 2006 , 45, 275-91	6.9	126
422	Herbivory-induced volatiles function as defenses increasing fitness of the native plant <i>Nicotiana attenuata</i> in nature. <i>ELife</i> , 2012 , 1, e00007	8.9	125
421	Two-fold differences are the detection limit for determining transgene copy numbers in plants by real-time PCR. <i>BMC Biotechnology</i> , 2004 , 4, 14	3.5	124
420	An analysis of plant-aphid interactions by different microarray hybridization strategies. <i>Molecular Ecology</i> , 2004 , 13, 3187-95	5.7	123
419	The chemistry of defense and apparency in the corollas of <i>Nicotiana attenuata</i> . <i>Oecologia</i> , 1996 , 107, 102-112	2.9	121
418	The alkaloidal responses of wild tobacco to real and simulated herbivory. <i>Oecologia</i> , 1988 , 77, 378-381	2.9	121
417	The role of cis-zeatin-type cytokinins in plant growth regulation and mediating responses to environmental interactions. <i>Journal of Experimental Botany</i> , 2015 , 66, 4873-84	7	120
416	Tuning the herbivore-induced ethylene burst: the role of transcript accumulation and ethylene perception in <i>Nicotiana attenuata</i> . <i>Plant Journal</i> , 2007 , 51, 293-307	6.9	119
415	Defence on demand: mechanisms behind optimal defence patterns. <i>Annals of Botany</i> , 2012 , 110, 1503-14	4.1	117
414	OPTIMAL DEFENSE THEORY PREDICTS THE ONTOGENY OF AN INDUCED NICOTINE DEFENSE. <i>Ecology</i> , 2000 , 81, 1765-1783	4.6	117
413	Taking ecological function seriously: soil microbial communities can obviate allelopathic effects of released metabolites. <i>PLoS ONE</i> , 2009 , 4, e4700	3.7	116
412	Independently silencing two JAR family members impairs levels of trypsin proteinase inhibitors but not nicotine. <i>Planta</i> , 2007 , 226, 159-67	4.7	113
411	<i>Piriformospora indica</i> and <i>Sebacina vermifera</i> increase growth performance at the expense of herbivore resistance in <i>Nicotiana attenuata</i> . <i>Oecologia</i> , 2005 , 146, 234-43	2.9	112

410	Caterpillar-elicited methanol emission: a new signal in plant-herbivore interactions?. <i>Plant Journal</i> , 2006 , 46, 948-60	6.9	111
409	<i>Nicotiana attenuata</i> LECTIN RECEPTOR KINASE1 suppresses the insect-mediated inhibition of induced defense responses during <i>Manduca sexta</i> herbivory. <i>Plant Cell</i> , 2011 , 23, 3512-32	11.6	110
408	Changing pollinators as a means of escaping herbivores. <i>Current Biology</i> , 2010 , 20, 237-42	6.3	110
407	Inducible Nicotine Production in Native <i>Nicotiana</i> as an Example of Adaptive Phenotypic Plasticity. <i>Journal of Chemical Ecology</i> , 1999 , 25, 3-30	2.7	107
406	<i>Petunia</i> flowers solve the defence/apparency dilemma of pollinator attraction by deploying complex floral blends. <i>Ecology Letters</i> , 2013 , 16, 299-306	10	106
405	Silencing of a germin-like gene in <i>Nicotiana attenuata</i> improves performance of native herbivores. <i>Plant Physiology</i> , 2006 , 140, 1126-36	6.6	105
404	RNA-directed RNA polymerase 1 (RdR1) mediates the resistance of <i>Nicotiana attenuata</i> to herbivore attack in nature. <i>Plant Journal</i> , 2007 , 50, 40-53	6.9	104
403	ECOLOGICAL COSTS AND BENEFITS CORRELATED WITH TRYPSIN PROTEASE INHIBITOR PRODUCTION IN <i>NICOTIANA ATTENUATA</i> . <i>Ecology</i> , 2003 , 84, 79-90	4.6	104
402	Herbivory-induced changes in the small-RNA transcriptome and phytohormone signaling in <i>Nicotiana attenuata</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 4559-64	11.5	103
401	Methyl jasmonate-elicited herbivore resistance: does MeJA function as a signal without being hydrolyzed to JA?. <i>Planta</i> , 2008 , 227, 1161-8	4.7	103
400	High levels of jasmonic acid antagonize the biosynthesis of gibberellins and inhibit the growth of <i>Nicotiana attenuata</i> stems. <i>Plant Journal</i> , 2013 , 73, 591-606	6.9	102
399	MYB8 controls inducible phenolamide levels by activating three novel hydroxycinnamoyl-coenzyme A:polyamine transferases in <i>Nicotiana attenuata</i> . <i>Plant Physiology</i> , 2012 , 158, 389-407	6.6	102
398	Jasmonates and Related Compounds in Plant-Insect Interactions. <i>Journal of Plant Growth Regulation</i> , 2004 , 23, 238-245	4.7	101
397	Stem-piped light activates phytochrome B to trigger light responses in <i>Arabidopsis thaliana</i> roots. <i>Science Signaling</i> , 2016 , 9, ra106	8.8	100
396	Nitrogen supply influences herbivore-induced direct and indirect defenses and transcriptional responses in <i>Nicotiana attenuata</i> . <i>Plant Physiology</i> , 2004 , 135, 496-506	6.6	100
395	<i>Empoasca</i> leafhoppers attack wild tobacco plants in a jasmonate-dependent manner and identify jasmonate mutants in natural populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E1548-57	11.5	99
394	Short-term damage-induced increases in tobacco alkaloids protect plants. <i>Oecologia</i> , 1988 , 75, 367-370	2.9	99
393	Wild tobacco genomes reveal the evolution of nicotine biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6133-6138	11.5	98

392	Molecular mechanisms underlying plant memory in JA-mediated defence responses. <i>Plant, Cell and Environment</i> , 2009 , 32, 617-27	8.4	98
391	SEASONAL AND INDIVIDUAL VARIATION IN LEAF QUALITY OF TWO NORTHERN HARDWOODS TREE SPECIES. <i>American Journal of Botany</i> , 1982 , 69, 753-759	2.7	98
390	A comparison of performance of plant miRNA target prediction tools and the characterization of features for genome-wide target prediction. <i>BMC Genomics</i> , 2014 , 15, 348	4.5	97
389	Damage-induced alkaloids in tobacco: Pot-bound plants are not inducible. <i>Journal of Chemical Ecology</i> , 1988 , 14, 1113-20	2.7	97
388	Generalist and specialist lepidopteran larvae elicit different transcriptional responses in <i>Nicotiana attenuata</i> , which correlate with larval FAC profiles. <i>Ecology Letters</i> , 2004 , 7, 770-775	10	95
387	Tobacco rattle virus vector: A rapid and transient means of silencing <i>manduca sexta</i> genes by plant mediated RNA interference. <i>PLoS ONE</i> , 2012 , 7, e31347	3.7	94
386	<i>Nicotiana attenuata</i> SIPK, WIPK, NPR1, and fatty acid-amino acid conjugates participate in the induction of jasmonic acid biosynthesis by affecting early enzymatic steps in the pathway. <i>Plant Physiology</i> , 2010 , 152, 96-106	6.6	93
385	Costs of jasmonate-induced responses in plants competing for limited resources. <i>Ecology Letters</i> , 1998 , 1, 30-33	10	93
384	Virus-induced gene silencing of jasmonate-induced direct defences, nicotine and trypsin proteinase-inhibitors in <i>Nicotiana attenuata</i> . <i>Journal of Experimental Botany</i> , 2004 , 55, 151-7	7	93
383	Competition mediates costs of jasmonate-induced defences, nitrogen acquisition and transgenerational plasticity in <i>Nicotiana attenuata</i> . <i>Functional Ecology</i> , 2001 , 15, 406-415	5.6	92
382	Herbivore-induced allene oxide synthase transcripts and jasmonic acid in <i>Nicotiana attenuata</i> . <i>Phytochemistry</i> , 2001 , 58, 729-38	4	92
381	Molecular interactions between the specialist herbivore <i>Manduca sexta</i> (Lepidoptera, Sphingidae) and its natural host <i>Nicotiana attenuata</i> . II. Accumulation of plant mRNAs in response to insect-derived cues. <i>Plant Physiology</i> , 2001 , 125, 701-10	6.6	90
380	Tissue specific diurnal rhythms of metabolites and their regulation during herbivore attack in a native tobacco, <i>Nicotiana attenuata</i> . <i>PLoS ONE</i> , 2011 , 6, e26214	3.7	90
379	Molecular interactions between the specialist herbivore <i>Manduca sexta</i> (Lepidoptera, Sphingidae) and its natural host <i>Nicotiana attenuata</i> . VIII. An unbiased GCxGC-ToFMS analysis of the plant's elicited volatile emissions. <i>Plant Physiology</i> , 2009 , 149, 1408-23	6.6	89
378	Increased SA in NPR1-silenced plants antagonizes JA and JA-dependent direct and indirect defenses in herbivore-attacked <i>Nicotiana attenuata</i> in nature. <i>Plant Journal</i> , 2007 , 52, 700-15	6.9	89
377	Natural history-driven, plant-mediated RNAi-based study reveals CYP6B46's role in a nicotine-mediated antipredator herbivore defense. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1245-52	11.5	86
376	Eating the evidence? <i>Manduca sexta</i> larvae can not disrupt specific jasmonate induction in <i>Nicotiana attenuata</i> by rapid consumption. <i>Planta</i> , 2000 , 210, 343-6	4.7	86
375	Lipase activity in insect oral secretions mediates defense responses in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2011 , 156, 1520-34	6.6	85

374	Specificity in ecological interactions: attack from the same lepidopteran herbivore results in species-specific transcriptional responses in two solanaceous host plants. <i>Plant Physiology</i> , 2005 , 138, 1763-73	6.6	84
373	<i>Manduca sexta</i> recognition and resistance among allopolyploid <i>Nicotiana</i> host plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100 Suppl 2, 14581-6	11.5	83
372	The Reproductive Consequences Associated with Inducible Alkaloidal Responses in Wild Tobacco. <i>Ecology</i> , 1990 , 71, 252-262	4.6	83
371	Unbiased transcriptional comparisons of generalist and specialist herbivores feeding on progressively defenseless <i>Nicotiana attenuata</i> plants. <i>PLoS ONE</i> , 2010 , 5, e8735	3.7	82
370	Individual variability in herbivore-specific elicitors from the plant's perspective. <i>Molecular Ecology</i> , 2004 , 13, 2421-33	5.7	80
369	The structure of the culturable root bacterial endophyte community of <i>Nicotiana attenuata</i> is organized by soil composition and host plant ethylene production and perception. <i>New Phytologist</i> , 2010 , 185, 554-67	9.8	79
368	Silencing <i>Nicotiana attenuata</i> calcium-dependent protein kinases, CDPK4 and CDPK5, strongly up-regulates wound- and herbivory-induced jasmonic acid accumulations. <i>Plant Physiology</i> , 2012 , 159, 1591-607	6.6	78
367	BAK1 regulates the accumulation of jasmonic acid and the levels of trypsin proteinase inhibitors in <i>Nicotiana attenuata</i> 's responses to herbivory. <i>Journal of Experimental Botany</i> , 2011 , 62, 641-52	7	78
366	Jasmonoyl-L-isoleucine hydrolase 1 (JIH1) regulates jasmonoyl-L-isoleucine levels and attenuates plant defenses against herbivores. <i>Plant Journal</i> , 2012 , 72, 758-67	6.9	77
365	Polymorphism in jasmonate signaling partially accounts for the variety of volatiles produced by <i>Nicotiana attenuata</i> plants in a native population. <i>New Phytologist</i> , 2009 , 183, 1134-1148	9.8	77
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233	Fire, nitrogen, and defensive plasticity in. <i>Oecologia</i> , 1998 , 115, 531	2.9	31
232	Deciphering herbivory-induced gene-to-metabolite dynamics in <i>Nicotiana attenuata</i> tissues using a multifactorial approach. <i>Plant Physiology</i> , 2013 , 162, 1042-59	6.6	30
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218	Synthesis, structural characterization and biological activity of two diastereomeric JA-Ile macrolactones. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 5885-93	3.9	27
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80	Finally, proof of weapons of mass destruction. <i>Science Signaling</i> , 2003 , 2003, PE42	8.8	8
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