

# Ian T Baldwin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

499  
papers

36,857  
citations

101  
h-index

172  
g-index

533  
ext. papers

41,415  
ext. citations

6.7  
avg, IF

7.75  
L-index

#	Paper	IF	Citations
499	Natural history-guided omics reveals plant defensive chemistry against leafhopper pests.. <i>Science</i> , <b>2022</b> , 375, eabm2948	33.3	2
498	Low-level cadmium exposure influences rice resistance to herbivores by priming jasmonate signaling. <i>Environmental and Experimental Botany</i> , <b>2022</b> , 194, 104741	5.9	
497	California TRV-based VIGS vectors mediate gene silencing at elevated temperatures but with greater growth stunting. <i>BMC Plant Biology</i> , <b>2021</b> , 21, 553	5.3	0
496	Natural variation in linalool metabolites: One genetic locus, many functions?. <i>Journal of Integrative Plant Biology</i> , <b>2021</b> , 63, 1416-1421	8.3	0
495	Pith-specific lignification in <i>Nicotiana attenuata</i> as a defense against a stem-boring herbivore. <i>New Phytologist</i> , <b>2021</b> , 232, 332-344	9.8	3
494	Variation in <i>Manduca sexta</i> Pollination-Related Floral Traits and Reproduction in a Wild Tobacco Plant. <i>Frontiers in Ecology and Evolution</i> , <b>2021</b> , 9,	3.7	1
493	Long non-coding RNAs associate with jasmonate-mediated plant defence against herbivores. <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 982-994	8.4	8
492	Ethylene is a local modulator of jasmonate-dependent phenolamide accumulation during <i>Manduca sexta</i> herbivory in <i>Nicotiana attenuata</i> . <i>Plant, Cell and Environment</i> , <b>2021</b> , 44, 964-981	8.4	2
491	Controlled hydroxylations of diterpenoids allow for plant chemical defense without autotoxicity. <i>Science</i> , <b>2021</b> , 371, 255-260	33.3	20
490	Cytotoxic furanosesquiterpenoids and steroids from sponges. <i>Pharmaceutical Biology</i> , <b>2021</b> , 59, 575-583	3.8	1
489	Molecular dissection of rice phytohormone signaling involved in resistance to a piercing-sucking herbivore. <i>New Phytologist</i> , <b>2021</b> , 230, 1639-1652	9.8	15
488	Specific decorations of 17-hydroxygeranylinalool diterpene glycosides solve the autotoxicity problem of chemical defense in <i>Nicotiana attenuata</i> . <i>Plant Cell</i> , <b>2021</b> , 33, 1748-1770	11.6	5
487	Light dominates the diurnal emissions of herbivore-induced volatiles in wild tobacco. <i>BMC Plant Biology</i> , <b>2021</b> , 21, 401	5.3	2
486	microRNA390 modulates 's tolerance response to herbivory. <i>Plant Direct</i> , <b>2021</b> , 5, e350	3.3	2
485	Syringaldehyde is a novel smoke-derived germination cue for the native fire-chasing tobacco, <i>Nicotiana attenuata</i> . <i>Seed Science Research</i> , <b>2021</b> , 31, 292-299	1.3	0
484	Information theory tests critical predictions of plant defense theory for specialized metabolism. <i>Science Advances</i> , <b>2020</b> , 6, eaaz0381	14.3	14
483	Allelic differences of clustered terpene synthases contribute to correlated intraspecific variation of floral and herbivory-induced volatiles in a wild tobacco. <i>New Phytologist</i> , <b>2020</b> , 228, 1083-1096	9.8	7

482	ZEITLUPE facilitates the rhythmic movements of <i>Nicotiana attenuata</i> flowers. <i>Plant Journal</i> , <b>2020</b> , 103, 308-322	6.9	1
481	TOC1 in <i>Nicotiana attenuata</i> regulates efficient allocation of nitrogen to defense metabolites under herbivory stress. <i>New Phytologist</i> , <b>2020</b> , 228, 1227-1242	9.8	5
480	Determining the scale at which variation in a single gene changes population yields. <i>ELife</i> , <b>2020</b> , 9,	8.9	1
479	<i>Nicotiana attenuata</i> Genome Reveals Genes in the Molecular Machinery Behind Remarkable Adaptive Phenotypic Plasticity. <i>Compendium of Plant Genomes</i> , <b>2020</b> , 211-229	0.8	2
478	ZEITLUPE is required for shade avoidance in the wild tobacco <i>Nicotiana attenuata</i> . <i>Journal of Integrative Plant Biology</i> , <b>2020</b> , 62, 1341-1351	8.3	1
477	Evolution of a Novel and Adaptive Floral Scent in Wild Tobacco. <i>Molecular Biology and Evolution</i> , <b>2020</b> , 37, 1090-1099	8.3	4
476	An Endophytic Strain Promotes Growth of Its Hosts and Defends Against Pathogen Attack. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 573670	6.2	9
475	A robust genome-editing method for wild plant species <i>Nicotiana attenuata</i> . <i>Plant Biotechnology Reports</i> , <b>2020</b> , 14, 585-598	2.5	6
474	Argonaute4 Modulates Resistance to Infection by Regulating Jasmonic Acid Signaling. <i>Plant Physiology</i> , <b>2020</b> , 184, 1128-1152	6.6	5
473	(dodder) parasite eavesdrops on the host plants' FT signals to flower. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 23125-23130	11.5	13
472	Strigolactone signaling regulates specialized metabolism in tobacco stems and interactions with stem-feeding herbivores. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000830	9.7	8
471	The Clock Gene TOC1 in Shoots, Not Roots, Determines Fitness of under Drought. <i>Plant Physiology</i> , <b>2019</b> , 181, 305-318	6.6	5
470	Mate Selection in Self-Compatible Wild Tobacco Results from Coordinated Variation in Homologous Self-Incompatibility Genes. <i>Current Biology</i> , <b>2019</b> , 29, 2020-2030.e5	6.3	8
469	The defensive function of a pollinator-attracting floral volatile. <i>Functional Ecology</i> , <b>2019</b> , 33, 1223-1232	5.6	10
468	Using natural variation to achieve a whole-plant functional understanding of the responses mediated by jasmonate signaling. <i>Plant Journal</i> , <b>2019</b> , 99, 414-425	6.9	6
467	An ERF2-like transcription factor regulates production of the defense sesquiterpene capsidiol upon <i>Alternaria alternata</i> infection. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 5895-5908	7	24
466	Priming and filtering of antiherbivore defences among <i>Nicotiana attenuata</i> plants connected by mycorrhizal networks. <i>Plant, Cell and Environment</i> , <b>2019</b> , 42, 2945-2961	8.4	10
465	Evolution of Alternative Splicing in Eudicots. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 707	6.2	10

464	An unbiased approach elucidates variation in ()-(+)-linalool, a context-specific mediator of a tri-trophic interaction in wild tobacco. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 14651-14660	11.5	20
463	Quantification of Blumenol Derivatives as Leaf Biomarkers for Plant-AMF Association. <i>Bio-protocol</i> , <b>2019</b> , 9, e3301	0.9	3
462	Flower movement balances pollinator needs and pollen protection. <i>Ecology</i> , <b>2019</b> , 100, e02553	4.6	13
461	A suite of complementary biocontrol traits allows a native consortium of root-associated bacteria to protect their host plant from a fungal sudden-wilt disease. <i>Molecular Ecology</i> , <b>2019</b> , 28, 1154-1169	5.7	20
460	Delayed Chemical Defense: Timely Expulsion of Herbivores Can Reduce Competition with Neighboring Plants. <i>American Naturalist</i> , <b>2019</b> , 193, 125-139	3.7	11
459	Herbivory elicits changes in green leaf volatile production via jasmonate signaling and the circadian clock. <i>Plant, Cell and Environment</i> , <b>2019</b> , 42, 972-982	8.4	10
458	The circadian clock contributes to diurnal patterns of plant indirect defense in nature. <i>Journal of Integrative Plant Biology</i> , <b>2019</b> , 61, 924-928	8.3	5
457	Shoot phytochrome B modulates reactive oxygen species homeostasis in roots via abscisic acid signaling in Arabidopsis. <i>Plant Journal</i> , <b>2018</b> , 94, 790-798	6.9	18
456	Aboveground herbivory induced jasmonates disproportionately reduce plant reproductive potential by facilitating root nematode infestation. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 797-808	8.4	17
455	ZEITLUPE in the Roots of Wild Tobacco Regulates Jasmonate-Mediated Nicotine Biosynthesis and Resistance to a Generalist Herbivore. <i>Plant Physiology</i> , <b>2018</b> , 177, 833-846	6.6	19
454	Jasmonate signaling makes flowers attractive to pollinators and repellent to florivores in nature. <i>Journal of Integrative Plant Biology</i> , <b>2018</b> , 60, 190-194	8.3	10
453	The Active Jasmonate JA-Ile Regulates a Specific Subset of Plant Jasmonate-Mediated Resistance to Herbivores in Nature. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 787	6.2	26
452	Functional variation in a key defense gene structures herbivore communities and alters plant performance. <i>PLoS ONE</i> , <b>2018</b> , 13, e0197221	3.7	3
451	Floral Trait Variations Among Wild Tobacco Populations Influence the Foraging Behavior of Hawkmoth Pollinators. <i>Frontiers in Ecology and Evolution</i> , <b>2018</b> , 6,	3.7	10
450	Large-scale gene losses underlie the genome evolution of parasitic plant <i>Cuscuta australis</i> . <i>Nature Communications</i> , <b>2018</b> , 9, 2683	17.4	68
449	Cytokinin transfer by a free-living mirid to recapitulates a strategy of endophytic insects. <i>ELife</i> , <b>2018</b> , 7,	8.9	17
448	Blumenols as shoot markers of root symbiosis with arbuscular mycorrhizal fungi. <i>ELife</i> , <b>2018</b> , 7,	8.9	35
447	The decoration of specialized metabolites influences stylar development. <i>ELife</i> , <b>2018</b> , 7,	8.9	18

446	Nicotiana attenuata's capacity to interact with arbuscular mycorrhiza alters its competitive ability and elicits major changes in the leaf transcriptome. <i>Journal of Integrative Plant Biology</i> , <b>2018</b> , 60, 242-261	8.3	7
445	Herbivore-induced volatile blends with both fast and slow components provide robust indirect defence in nature. <i>Functional Ecology</i> , <b>2018</b> , 32, 136-149	5.6	28
444	The Jasmonate Cascade and the Complexity of Induced Defence Against Herbivore Attack <b>2018</b> , 158-188		
443	Complex regulation of microRNAs in roots of competitively-grown isogenic Nicotiana attenuata plants with different capacities to interact with arbuscular mycorrhizal fungi. <i>BMC Genomics</i> , <b>2018</b> , 19, 937	4.5	10
442	Root-expressed phytochromes B1 and B2, but not PhyA and Cry2, regulate shoot growth in nature. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 2577-2588	8.4	7
441	Field studies reveal functions of chemical mediators in plant interactions. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 5338-5353	58.5	14
440	Cry1Ac production is costly for native plants attacked by non-Cry1Ac-targeted herbivores in the field. <i>New Phytologist</i> , <b>2018</b> , 219, 714-727	9.8	5
439	Antimicrobial peptide expression in a wild tobacco plant reveals the limits of host-microbe-manipulations in the field. <i>ELife</i> , <b>2018</b> , 7,	8.9	13
438	The roots of Salvia rhytidea: a rich source of biologically active diterpenoids. <i>Natural Product Research</i> , <b>2017</b> , 31, 477-481	2.3	17
437	Acyl Sugars Protect a Wild Tobacco from Both Native Fungal Pathogens and a Specialist Herbivore. <i>Plant Physiology</i> , <b>2017</b> , 174, 370-386	6.6	50
436	JA-Ile-macrolactones uncouple growth and defense in wild tobacco. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 3391-3395	3.9	25
435	Specificity of root microbiomes in native-grown Nicotiana attenuata and plant responses to UVB increase Deinococcus colonization. <i>Molecular Ecology</i> , <b>2017</b> , 26, 2543-2562	5.7	16
434	Tissue-Specific Emission of (E)-Bergamotene Helps Resolve the Dilemma When Pollinators Are Also Herbivores. <i>Current Biology</i> , <b>2017</b> , 27, 1336-1341	6.3	45
433	JA but not JA-Ile is the cell-nonautonomous signal activating JA mediated systemic defenses to herbivory in Nicotiana attenuata. <i>Journal of Integrative Plant Biology</i> , <b>2017</b> , 59, 552-571	8.3	22
432	Circadian clock component, LHY, tells a plant when to respond photosynthetically to light in nature. <i>Journal of Integrative Plant Biology</i> , <b>2017</b> , 59, 572-587	8.3	14
431	Cytotoxic diterpenoids from the roots of Salvia lachnocalyx. <i>Revista Brasileira De Farmacognosia</i> , <b>2017</b> , 27, 475-479	2	12
430	Species-specific regulation of herbivory-induced defoliation tolerance is associated with jasmonate inducibility. <i>Ecology and Evolution</i> , <b>2017</b> , 7, 3703-3712	2.8	10
429	Evidence of an evolutionary hourglass pattern in herbivory-induced transcriptomic responses. <i>New Phytologist</i> , <b>2017</b> , 215, 1264-1273	9.8	4

428	Herbivory-induced jasmonates constrain plant sugar accumulation and growth by antagonizing gibberellin signaling and not by promoting secondary metabolite production. <i>New Phytologist</i> , <b>2017</b> , 215, 803-812	9.8	52
427	Wild tobacco genomes reveal the evolution of nicotine biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 6133-6138	11.5	98
426	Functional specialization of <i>Nicotiana attenuata</i> phytochromes in leaf development and flowering time. <i>Journal of Integrative Plant Biology</i> , <b>2017</b> , 59, 205-224	8.3	6
425	Herbivore perception decreases photosynthetic carbon assimilation and reduces stomatal conductance by engaging 12-oxo-phytodienoic acid, mitogen-activated protein kinase 4 and cytokinin perception. <i>Plant, Cell and Environment</i> , <b>2017</b> , 40, 1039-1056	8.4	19
424	Fitness consequences of altering floral circadian oscillations for <i>Nicotiana attenuata</i> . <i>Journal of Integrative Plant Biology</i> , <b>2017</b> , 59, 180-189	8.3	21
423	Plant-mediated RNAi silences midgut-expressed genes in congeneric lepidopteran insects in nature. <i>BMC Plant Biology</i> , <b>2017</b> , 17, 199	5.3	21
422	Fitness consequences of a clock pollinator filter in <i>Nicotiana attenuata</i> flowers in nature. <i>Journal of Integrative Plant Biology</i> , <b>2017</b> , 59, 805-809	8.3	9
421	NaMYB8 regulates distinct, optimally distributed herbivore defense traits. <i>Journal of Integrative Plant Biology</i> , <b>2017</b> , 59, 844-850	8.3	8
420	Stem parasitic plant (dodder) transfers herbivory-induced signals among plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E6703-E6709	11.5	41
419	Argonaute 8 (AGO8) Mediates the Elicitation of Direct Defenses against Herbivory. <i>Plant Physiology</i> , <b>2017</b> , 175, 927-946	6.6	19
418	What happens in the pith stays in the pith: tissue-localized defense responses facilitate chemical niche differentiation between two spatially separated herbivores. <i>Plant Journal</i> , <b>2017</b> , 92, 414-425	6.9	17
417	Flower-specific jasmonate signaling regulates constitutive floral defenses in wild tobacco. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E7205-E7214	11.5	43
416	Multiple Routes of Light Signaling during Root Photomorphogenesis. <i>Trends in Plant Science</i> , <b>2017</b> , 22, 803-812	13.1	35
415	Localized micronutrient patches induce lateral root foraging and chemotropism in <i>Nicotiana attenuata</i> . <i>Journal of Integrative Plant Biology</i> , <b>2017</b> , 59, 759-771	8.3	5
414	<i>Nicotiana attenuata</i> Data Hub (NaDH): an integrative platform for exploring genomic, transcriptomic and metabolomic data in wild tobacco. <i>BMC Genomics</i> , <b>2017</b> , 18, 79	4.5	18
413	Sex ratio of mirid populations shifts in response to hostplant co-infestation or altered cytokinin signaling. <i>Journal of Integrative Plant Biology</i> , <b>2017</b> , 59, 44-59	8.3	5
412	Changes in cytokinins are sufficient to alter developmental patterns of defense metabolites in <i>Nicotiana attenuata</i> . <i>Plant Journal</i> , <b>2017</b> , 89, 15-30	6.9	17
411	Catechol, a major component of smoke, influences primary root growth and root hair elongation through reactive oxygen species-mediated redox signaling. <i>New Phytologist</i> , <b>2017</b> , 213, 1755-1770	9.8	13

410	Cytotoxic Activities of Different Iranian Solanaceae and Lamiaceae Plants and Bioassay-Guided Study of an Active Extract from <i>Salvia lachnocalyx</i> . <i>Natural Product Communications</i> , <b>2017</b> , 12, 1934578X1701201	9.9	21
409	Cytotoxic Activity of Two Cembranoid Diterpenes from <i>Nicotiana glauca</i> Against Three Human Cancer Cell Lines. <i>The Open Bioactive Compounds Journal</i> , <b>2017</b> , 5, 1-8	1.3	4
408	Illuminating a plant's tissue-specific metabolic diversity using computational metabolomics and information theory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E7610-E7618	11.5	53
407	Stem-piped light activates phytochrome B to trigger light responses in <i>Arabidopsis thaliana</i> roots. <i>Science Signaling</i> , <b>2016</b> , 9, ra106	8.8	100
406	Systematic analysis of rice ( <i>Oryza sativa</i> ) metabolic responses to herbivory. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 453-66	8.4	46
405	Olive fruits infested with olive fly larvae respond with an ethylene burst and the emission of specific volatiles. <i>Journal of Integrative Plant Biology</i> , <b>2016</b> , 58, 413-25	8.3	16
404	The Layers of Plant Responses to Insect Herbivores. <i>Annual Review of Entomology</i> , <b>2016</b> , 61, 373-94	21.8	185
403	CO11-Regulated Hydroxylation of Jasmonoyl-L-isoleucine Impairs <i>Nicotiana attenuata</i> 's Resistance to the Generalist Herbivore <i>Spodoptera litura</i> . <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 2822-31	5.7	13
402	Cytotoxic activity and chemical constituents of <i>Anthemis mirheydari</i> . <i>Pharmaceutical Biology</i> , <b>2016</b> , 54, 2044-9	3.8	18
401	Bacteria dominate the short-term assimilation of plant-derived N in soil. <i>Soil Biology and Biochemistry</i> , <b>2016</b> , 96, 30-38	7.5	46
400	Benefits of jasmonate-dependent defenses against vertebrate herbivores in nature. <i>ELife</i> , <b>2016</b> , 5,	8.9	31
399	Evolution of herbivore-induced early defense signaling was shaped by genome-wide duplications in. <i>ELife</i> , <b>2016</b> , 5,	8.9	16
398	Beyond the Canon: Within-Plant and Population-Level Heterogeneity in Jasmonate Signaling Engaged by Plant-Insect Interactions. <i>Plants</i> , <b>2016</b> , 5,	4.5	9
397	Hawkmoths evaluate scenting flowers with the tip of their proboscis. <i>ELife</i> , <b>2016</b> , 5,	8.9	27
396	Using the knowns to discover the unknowns: MS-based dereplication uncovers structural diversity in 17-hydroxygeranylinalool diterpene glycoside production in the Solanaceae. <i>Plant Journal</i> , <b>2016</b> , 85, 561-77	6.9	28
395	Shifting <i>Nicotiana attenuata</i> 's diurnal rhythm does not alter its resistance to the specialist herbivore <i>Manduca sexta</i> . <i>Journal of Integrative Plant Biology</i> , <b>2016</b> , 58, 656-68	8.3	13
394	Oral secretions from <i>Mythimna separata</i> insects specifically induce defence responses in maize as revealed by high-dimensional biological data. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 1749-1766	8.4	40
393	<i>Trichobaris</i> weevils distinguish amongst toxic host plants by sensing volatiles that do not affect larval performance. <i>Molecular Ecology</i> , <b>2016</b> , 25, 3509-19	5.7	10

392	Plant-mediated pheromone emission by a hemipteran seed feeder increases the apparency of an unreliable but rewarding host. <i>New Phytologist</i> , <b>2016</b> , 211, 113-25	9.8	7
391	High-throughput quantification of more than 100 primary- and secondary-metabolites, and phytohormones by a single solid-phase extraction based sample preparation with analysis by UHPLC-HESI-MS/MS. <i>Plant Methods</i> , <b>2016</b> , 12, 30	5.8	56
390	Transcriptome profiling reveals differential gene expression of detoxification enzymes in a hemimetabolous tobacco pest after feeding on jasmonate-silenced <i>Nicotiana attenuata</i> plants. <i>BMC Genomics</i> , <b>2016</b> , 17, 1005	4.5	26
389	Silencing <i>Nicotiana attenuata</i> LHY and ZTL alters circadian rhythms in flowers. <i>New Phytologist</i> , <b>2016</b> , 209, 1058-66	9.8	54
388	Auxin Is Rapidly Induced by Herbivore Attack and Regulates a Subset of Systemic, Jasmonate-Dependent Defenses. <i>Plant Physiology</i> , <b>2016</b> , 172, 521-32	6.6	49
387	Jasmonate-dependent depletion of soluble sugars compromises plant resistance to <i>Manduca sexta</i> . <i>New Phytologist</i> , <b>2015</b> , 207, 91-105	9.8	73
386	Herbivore associated elicitor-induced defences are highly specific among closely related <i>Nicotiana</i> species. <i>BMC Plant Biology</i> , <b>2015</b> , 15, 2	5.3	39
385	Synthesis, structural characterization and biological activity of two diastereomeric JA-Ile macrolactones. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 5885-93	3.9	27
384	Label-free nanoUPLC-MSE based quantification of antimicrobial peptides from the leaf apoplast of <i>Nicotiana attenuata</i> . <i>BMC Plant Biology</i> , <b>2015</b> , 15, 18	5.3	10
383	Molecular evolution and diversification of the Argonaute family of proteins in plants. <i>BMC Plant Biology</i> , <b>2015</b> , 15, 23	5.3	35
382	The rapidly evolving associations among herbivore associated elicitor-induced phytohormones in <i>Nicotiana</i> . <i>Plant Signaling and Behavior</i> , <b>2015</b> , 10, e1035850	2.5	5
381	Navigating natural variation in herbivory-induced secondary metabolism in coyote tobacco populations using MS/MS structural analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E4147-55	11.5	49
380	Silencing a key gene of the common symbiosis pathway in <i>Nicotiana attenuata</i> specifically impairs arbuscular mycorrhizal infection without influencing the root-associated microbiome or plant growth. <i>Plant, Cell and Environment</i> , <b>2015</b> , 38, 2398-416	8.4	17
379	Detoxification of hostplant's chemical defence rather than its anti-predator co-option drives Eglucosidase-mediated lepidopteran counteradaptation. <i>Nature Communications</i> , <b>2015</b> , 6, 8525	17.4	26
378	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> , <b>2015</b> , 112, E5013-20	11.5	224
377	In wild tobacco, <i>Nicotiana attenuata</i> , variation among bacterial communities of isogenic plants is mainly shaped by the local soil microbiota independently of the plants' capacity to produce jasmonic acid. <i>Communicative and Integrative Biology</i> , <b>2015</b> , 8, e1017160	1.7	6
376	Jasmonic acid signalling mediates resistance of the wild tobacco <i>Nicotiana attenuata</i> to its native <i>Fusarium</i> , but not <i>Alternaria</i> , fungal pathogens. <i>Plant, Cell and Environment</i> , <b>2015</b> , 38, 572-84	8.4	8
375	Cytokinin levels and signaling respond to wounding and the perception of herbivore elicitors in <i>Nicotiana attenuata</i> . <i>Journal of Integrative Plant Biology</i> , <b>2015</b> , 57, 198-212	8.3	46



374	Pyridine-type alkaloid composition affects bacterial community composition of floral nectar. <i>Scientific Reports</i> , <b>2015</b> , 5, 11536	4.9	25
373	WRKY6 restricts Piriformospora indica-stimulated and phosphate-induced root development in Arabidopsis. <i>BMC Plant Biology</i> , <b>2015</b> , 15, 305	5.3	22
372	Insect herbivory elicits genome-wide alternative splicing responses in <i>Nicotiana attenuata</i> . <i>Plant Journal</i> , <b>2015</b> , 84, 228-43	6.9	23
371	Cytokinin concentrations and CHASE-DOMAIN CONTAINING HIS KINASE 2 (NaCHK2)- and NaCHK3-mediated perception modulate herbivory-induced defense signaling and defenses in <i>Nicotiana attenuata</i> . <i>New Phytologist</i> , <b>2015</b> , 207, 645-58	9.8	27
370	A <i>Nicotiana attenuata</i> cell wall invertase inhibitor (NaCWII) reduces growth and increases secondary metabolite biosynthesis in herbivore-attacked plants. <i>New Phytologist</i> , <b>2015</b> , 208, 519-30	9.8	25
369	Virus-Induced Gene Silencing Using Tobacco Rattle Virus as a Tool to Study the Interaction between <i>Nicotiana attenuata</i> and <i>Rhizophagus irregularis</i> . <i>PLoS ONE</i> , <b>2015</b> , 10, e0136234	3.7	6
368	The role of cis-zeatin-type cytokinins in plant growth regulation and mediating responses to environmental interactions. <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 4873-84	7	120
367	The effect of polyploidy and hybridization on the evolution of floral colour in <i>Nicotiana</i> (Solanaceae). <i>Annals of Botany</i> , <b>2015</b> , 115, 1117-31	4.1	27
366	Phytochemical Investigation on <i>Euphorbia macrostegia</i> (Persian wood spurge). <i>Iranian Journal of Pharmaceutical Research</i> , <b>2015</b> , 14, 243-9	1.1	6
365	Plant defense phenotypes determine the consequences of volatile emission for individuals and neighbors. <i>ELife</i> , <b>2015</b> , 4,	8.9	31
364	New opportunities at the wild frontier. <i>ELife</i> , <b>2015</b> , 4,	8.9	34
363	How scent and nectar influence floral antagonists and mutualists. <i>ELife</i> , <b>2015</b> , 4,	8.9	45
362	Revealing insect herbivory-induced phenolamide metabolism: from single genes to metabolic network plasticity analysis. <i>Plant Journal</i> , <b>2014</b> , 79, 679-92	6.9	43
361	RuBPCase activase (RCA) mediates growth-defense trade-offs: silencing RCA redirects jasmonic acid (JA) flux from JA-isoleucine to methyl jasmonate (MeJA) to attenuate induced defense responses in <i>Nicotiana attenuata</i> . <i>New Phytologist</i> , <b>2014</b> , 201, 1385-1395	9.8	31
360	Comparative hydrodistillation and headspace SPME-GC-MS analysis of volatile constituents of roots and shoots of <i>Artemisia annua</i> and <i>Artemisia sieberi</i> . <i>Chemistry of Natural Compounds</i> , <b>2014</b> , 49, 1148-1153	0.7	2
359	A robust, simple, high-throughput technique for time-resolved plant volatile analysis in field experiments. <i>Plant Journal</i> , <b>2014</b> , 78, 1060-72	6.9	66
358	Nectar secretion requires sucrose phosphate synthases and the sugar transporter SWEET9. <i>Nature</i> , <b>2014</b> , 508, 546-9	50.4	221
357	Ectopic terpene synthase expression enhances sesquiterpene emission in <i>Nicotiana attenuata</i> without altering defense or development of transgenic plants or neighbors. <i>Plant Physiology</i> , <b>2014</b> , 166, 779-97	6.6	21

356	FCA mediates thermal adaptation of stem growth by attenuating auxin action in Arabidopsis. <i>Nature Communications</i> , <b>2014</b> , 5, 5473	17.4	59
355	A comparison of performance of plant miRNA target prediction tools and the characterization of features for genome-wide target prediction. <i>BMC Genomics</i> , <b>2014</b> , 15, 348	4.5	97
354	Alternative splicing and nonsense-mediated decay of circadian clock genes under environmental stress conditions in Arabidopsis. <i>BMC Plant Biology</i> , <b>2014</b> , 14, 136	5.3	75
353	Root jasmonic acid synthesis and perception regulate folivore-induced shoot metabolites and increase <i>Nicotiana attenuata</i> resistance. <i>New Phytologist</i> , <b>2014</b> , 202, 1335-1345	9.8	49
352	The <i>Nicotiana attenuata</i> GLA1 lipase controls the accumulation of <i>Phytophthora parasitica</i> -induced oxylipins and defensive secondary metabolites. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 1703-15	8.4	11
351	Salicylic acid, a plant defense hormone, is specifically secreted by a molluscan herbivore. <i>PLoS ONE</i> , <b>2014</b> , 9, e86500	3.7	32
350	Analysis of plant-bacteria interactions in their native habitat: bacterial communities associated with wild tobacco are independent of endogenous jasmonic acid levels and developmental stages. <i>PLoS ONE</i> , <b>2014</b> , 9, e94710	3.7	33
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344	The roots of plant defenses: integrative multivariate analyses uncover dynamic behaviors of gene and metabolic networks of roots elicited by leaf herbivory. <i>Plant Journal</i> , <b>2014</b> , 77, 880-92	6.9	22
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341	Differences in nicotine metabolism of two <i>Nicotiana attenuata</i> herbivores render them differentially susceptible to a common native predator. <i>PLoS ONE</i> , <b>2014</b> , 9, e95982	3.7	15
340	Cytokinin Analysis: Sample Preparation and Quantification. <i>Bio-protocol</i> , <b>2014</b> , 4,	0.9	7
339	Ecology in the genomics era of a degraded planet. <i>ELife</i> , <b>2014</b> , 3, e02394	8.9	2

338	Virus-induced gene silencing in plant MAPK research. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1171, 79-89	1.4	1
337	Natural variation in floral nectar proteins of two <i>Nicotiana attenuata</i> accessions. <i>BMC Plant Biology</i> , <b>2013</b> , 13, 101	5.3	17
336	Progressive 35S promoter methylation increases rapidly during vegetative development in transgenic <i>Nicotiana attenuata</i> plants. <i>BMC Plant Biology</i> , <b>2013</b> , 13, 99	5.3	41
335	NaMYC2 transcription factor regulates a subset of plant defense responses in <i>Nicotiana attenuata</i> . <i>BMC Plant Biology</i> , <b>2013</b> , 13, 73	5.3	35
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332	Silencing brassinosteroid receptor BRI1 impairs herbivory-elicited accumulation of jasmonic acid-isoleucine and diterpene glycosides, but not jasmonic acid and trypsin proteinase inhibitors in <i>Nicotiana attenuata</i> . <i>Journal of Integrative Plant Biology</i> , <b>2013</b> , 55, 514-26	8.3	15
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330	UVB radiation and 17-hydroxygeranylinalool diterpene glycosides provide durable resistance against mirid ( <i>Tupiocoris notatus</i> ) attack in field-grown <i>Nicotiana attenuata</i> plants. <i>Plant, Cell and Environment</i> , <b>2013</b> , 36, 590-606	8.4	49
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328	The use of VIGS technology to study plant-herbivore interactions. <i>Methods in Molecular Biology</i> , <b>2013</b> , 975, 109-37	1.4	12
327	Jasmonate signaling in the field, part I: elicited changes in jasmonate pools of transgenic <i>Nicotiana attenuata</i> populations. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1011, 83-95	1.4	1
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324	Just in time: circadian defense patterns and the optimal defense hypothesis. <i>Plant Signaling and Behavior</i> , <b>2013</b> , 8, e24410	2.5	23
323	Feeding-induced rearrangement of green leaf volatiles reduces moth oviposition. <i>eLife</i> , <b>2013</b> , 2, e004218.9	8.9	51
322	An integrative statistical method to explore herbivory-specific responses in plants. <i>Plant Signaling and Behavior</i> , <b>2013</b> , 8, doi: 10.4161/psb.25638	2.5	2
321	The HERBIVORE ELICITOR-REGULATED1 gene enhances abscisic acid levels and defenses against herbivores in <i>Nicotiana attenuata</i> plants. <i>Plant Physiology</i> , <b>2013</b> , 162, 2106-24	6.6	49

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314	'Real time' genetic manipulation: a new tool for ecological field studies. <i>Plant Journal</i> , <b>2013</b> , 76, 506-18	6.9	24
313	Narboh D, a respiratory burst oxidase homolog in <i>Nicotiana attenuata</i> , is required for late defense responses after herbivore attack. <i>Journal of Integrative Plant Biology</i> , <b>2013</b> , 55, 187-98	8.3	29
312	Silencing ribulose-1,5-bisphosphate carboxylase/oxygenase expression does not disrupt nitrogen allocation to defense after simulated herbivory in <i>Nicotiana attenuata</i> . <i>Plant Signaling and Behavior</i> , <b>2013</b> , 8, e27570	2.5	7
311	Multiple interactions of NaHER1 protein with abscisic acid signaling in <i>Nicotiana attenuata</i> plants. <i>Plant Signaling and Behavior</i> , <b>2013</b> , 8, e26365	2.5	1
310	A jasmonate ZIM-domain protein NaJAZd regulates floral jasmonic acid levels and counteracts flower abscission in <i>Nicotiana attenuata</i> plants. <i>PLoS ONE</i> , <b>2013</b> , 8, e57868	3.7	43
309	Silencing an N-acyltransferase-like involved in lignin biosynthesis in <i>Nicotiana attenuata</i> dramatically alters herbivory-induced phenolamide metabolism. <i>PLoS ONE</i> , <b>2013</b> , 8, e62336	3.7	18
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307	Determination of Nectar Nicotine Concentration in <i>N. attenuata</i> . <i>Bio-protocol</i> , <b>2013</b> , 3,	0.9	1
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250	Lipase activity in insect oral secretions mediates defense responses in <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2011</b> , 156, 1520-34	6.6	85
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247	Tissue specific diurnal rhythms of metabolites and their regulation during herbivore attack in a native tobacco, <i>Nicotiana attenuata</i> . <i>PLoS ONE</i> , <b>2011</b> , 6, e26214	3.7	90
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245	Oxylipin channelling in <i>Nicotiana attenuata</i> : lipoxygenase 2 supplies substrates for green leaf volatile production. <i>Plant, Cell and Environment</i> , <b>2010</b> , 33, 2028-40	8.4	70
244	Enhanced fluorescence imaging in chlorophyll-suppressed tobacco tissues using virus-induced gene silencing of the phytoene desaturase gene. <i>BioTechniques</i> , <b>2010</b> , 48, 125-33	2.5	15
243	<i>Nicotiana tabacum</i> agglutinin is active against Lepidopteran pest insects. <i>Journal of Experimental Botany</i> , <b>2010</b> , 61, 1003-14	7	33
242	Jasmonic acid and ethylene modulate local responses to wounding and simulated herbivory in <i>Nicotiana attenuata</i> leaves. <i>Plant Physiology</i> , <b>2010</b> , 153, 785-98	6.6	61
241	Jasmonate-dependent and -independent pathways mediate specific effects of solar ultraviolet B radiation on leaf phenolics and antiherbivore defense. <i>Plant Physiology</i> , <b>2010</b> , 152, 1084-95	6.6	149
240	Insects betray themselves in nature to predators by rapid isomerization of green leaf volatiles. <i>Science</i> , <b>2010</b> , 329, 1075-8	33.3	190
239	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> , <b>2010</b> , 22, 273-92	11.6	142
238	Variation in antiherbivore defense responses in synthetic <i>Nicotiana</i> allopolyploids correlates with changes in uniparental patterns of gene expression. <i>Plant Physiology</i> , <b>2010</b> , 153, 1907-18	6.6	19
237	The role of jasmonic acid and ethylene crosstalk in direct defense of <i>Nicotiana attenuata</i> plants against chewing herbivores. <i>Plant Signaling and Behavior</i> , <b>2010</b> , 5, 1305-7	2.5	21
236	Transduction of wound and herbivory signals in plastids. <i>Communicative and Integrative Biology</i> , <b>2010</b> , 3, 313-7	1.7	15
235	Silencing NaTPI expression increases nectar germin, nectarins, and hydrogen peroxide levels and inhibits nectar removal from plants in nature. <i>Plant Physiology</i> , <b>2010</b> , 152, 2232-42	6.6	11
234	New insights into the early biochemical activation of jasmonic acid biosynthesis in leaves. <i>Plant Signaling and Behavior</i> , <b>2010</b> , 5, 287-9	2.5	18
233	New insights into mechanisms regulating differential accumulation of phenylpropanoid-polyamine conjugates (PPCs) in herbivore-attacked <i>Nicotiana attenuata</i> plants. <i>Plant Signaling and Behavior</i> , <b>2010</b> , 5, 610-3	2.5	
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231	Rapid metabolic profiling of <i>Nicotiana tabacum</i> defence responses against <i>Phytophthora nicotianae</i> using direct infrared laser desorption ionization mass spectrometry and principal component analysis. <i>Plant Methods</i> , <b>2010</b> , 6, 14	5.8	24



230	The evolutionary context for herbivore-induced plant volatiles: beyond the 'cry for help'. <i>Trends in Plant Science</i> , <b>2010</b> , 15, 167-75	13.1	769
229	Development and validation of a liquid chromatography-electrospray ionization-time-of-flight mass spectrometry method for induced changes in <i>Nicotiana attenuata</i> leaves during simulated herbivory. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 9418-27	5.7	56
228	Lipoxygenase-mediated modification of insect elicitors: generating chemical diversity on the leaf wound surface. <i>Plant Signaling and Behavior</i> , <b>2010</b> , 5, 1674-6	2.5	7
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226	Serine protease inhibitors specifically defend <i>Solanum nigrum</i> against generalist herbivores but do not influence plant growth and development. <i>Plant Cell</i> , <b>2010</b> , 22, 4158-75	11.6	68
225	New insights into plant responses to the attack from insect herbivores. <i>Annual Review of Genetics</i> , <b>2010</b> , 44, 1-24	14.5	583
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215	Taking ecological function seriously: soil microbial communities can obviate allelopathic effects of released metabolites. <i>PLoS ONE</i> , <b>2009</b> , 4, e4700	3.7	116
214	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> , <b>2009</b> , 149, 1408-23	6.6	89
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212	Different lepidopteran elicitors account for cross-talk in herbivory-induced phytohormone signaling. <i>Plant Physiology</i> , <b>2009</b> , 150, 1576-86	6.6	245
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205	Herbivore-induced jasmonic acid bursts in leaves of <i>Nicotiana attenuata</i> mediate short-term reductions in root growth. <i>Plant, Cell and Environment</i> , <b>2009</b> , 32, 134-43	8.4	26
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