Heidi M Appel

List of Publications by Year
in descending order

40 papers	3,494 citations	236925 25 h-index	289244 40 g-index
43 all docs	43 docs citations	43 times ranked	4192 citing authors

#	Article	IF	Citations
1	Leaf vibrations produced by chewing provide a consistent acoustic target for plant recognition of herbivores. Oecologia, 2020, 194, 1-13.	2.0	20
2	Caterpillar Chewing Vibrations Cause Changes in Plant Hormones and Volatile Emissions in Arabidopsis thaliana. Frontiers in Plant Science, 2019, 10, 810.	3.6	28
3	A galling insect activates plant reproductive programs during gall development. Scientific Reports, 2019, 9, 1833.	3.3	54
4	Use of Yellow Fluorescent Protein Fluorescence to Track OPR3 Expression in Arabidopsis Thaliana Responses to Insect Herbivory. Frontiers in Plant Science, 2019, 10, 1586.	3.6	9
5	Heritable Phytohormone Profiles of Poplar Genotypes Vary in Resistance to a Galling Aphid. Molecular Plant-Microbe Interactions, 2019, 32, 654-672.	2.6	14
6	Morphometric analysis of young petiole galls on the narrow-leaf cottonwood, Populus angustifolia, by the sugarbeet root aphid, Pemphigus betae. Protoplasma, 2017, 254, 203-216.	2.1	12
7	The <scp>A</scp>rabidopsis immune regulator <scp><i>SRFR</i></scp><i>1</i> dampens defences against herbivory by <scp><i>S</i></scp><i>podoptera exigua</i> and parasitism by <scp><i>H</i></scp><i>eterodera schachtii</i>. Molecular Plant Pathology, 2016, 17, 588-600.	4.2	11
8	Shared weapons of blood- and plant-feeding insects: Surprising commonalities for manipulating hosts. Journal of Insect Physiology, 2016, 84, 4-21.	2.0	50
9	Plant Vascular Architecture Determines the Pattern of Herbivore-Induced Systemic Responses in Arabidopsis thaliana. PLoS ONE, 2015, 10, e0123899.	2.5	18
10	Transcriptional and metabolic signatures of Arabidopsis responses to chewing damage by an insect herbivore and bacterial infection and the consequences of their interaction. Frontiers in Plant Science, 2014, 5, 441.	3.6	13
11	Transcriptional responses of Arabidopsis thaliana to chewing and sucking insect herbivores. Frontiers in Plant Science, 2014, 5, 565.	3.6	61
12	Roles for jasmonate- and ethylene-induced transcription factors in the ability of Arabidopsis to respond differentially to damage caused by two insect herbivores. Frontiers in Plant Science, 2014, 5, 407.	3.6	56
13	Plants respond to leaf vibrations caused by insect herbivore chewing. Oecologia, 2014, 175, 1257-1266.	2.0	213
14	Flexible resource allocation during plant defense responses. Frontiers in Plant Science, 2013, 4, 324.	3.6	147
15	Temporal Changes in Allocation and Partitioning of New Carbon as 11C Elicited by Simulated Herbivory Suggest that Roots Shape Aboveground Responses in Arabidopsis Â Â. Plant Physiology, 2013, 161, 692-704.	4.8	55
16	Is polyphenol induction simply a result of altered carbon and nitrogen accumulation?. Plant Signaling and Behavior, 2012, 7, 1498-1500.	2.4	9
17	Effects of jasmonic acid, branching and girdling on carbon and nitrogen transport in poplar. New Phytologist, 2012, 195, 419-426.	7.3	23
18	PhenoPhyte: a flexible affordable method to quantify 2D phenotypes from imagery. Plant Methods, 2012, 8, 45.	4.3	70

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19	Novel application of 2-[18F]fluoro-2-deoxy-d-glucose to study plant defenses. Nuclear Medicine and Biology, 2012, 39, 1152-1160.	0.6	28
20	Adaptive Two-Dimensional Microgas Chromatography. Analytical Chemistry, 2012, 84, 4214-4220.	6.5	19
21	Measuring â€˜normalcyâ€™ in plant gene expression after herbivore attack. Molecular Ecology Resources, 2011, 11, 294-304.	4.8	13
22	Red oak responses to nitrogen addition depend on herbivory type, tree family, and site. Forest Ecology and Management, 2010, 259, 1930-1937.	3.2	12
23	Fuzzy cluster analysis of bioinformatics data composed of microarray expression data and gene ontology annotations. , 2008, , .		12
24	Within-plant signalling via volatiles overcomes vascular constraints on systemic signalling and primes responses against herbivores. Ecology Letters, 2007, 10, 490-498.	6.4	333
25	Overexpression of CRK13, an Arabidopsis cysteine-rich receptor-like kinase, results in enhanced resistance to Pseudomonas syringae. Plant Journal, 2007, 50, 488-499.	5.7	151
26	ArabidopsisGH3-LIKE DEFENSE GENEâ€ƒ1is required for accumulation of salicylic acid, activation of defense responses and resistance toPseudomonas syringae. Plant Journal, 2007, 51, 234-246.	5.7	112
27	Gene expression and glucosinolate accumulation in Arabidopsis thaliana in response to generalist and specialist herbivores of different feeding guilds and the role of defense signaling pathways. Phytochemistry, 2006, 67, 2450-2462.	2.9	248
28	Fertility, Root Reserves and the Cost of Inducible Defenses in the Perennial Plant Solanum carolinense. Journal of Chemical Ecology, 2005, 31, 2263-2288.	1.8	35
29	Major Signaling Pathways Modulate Arabidopsis Glucosinolate Accumulation and Response to Both Phloem-Feeding and Chewing Insects. Plant Physiology, 2005, 138, 1149-1162.	4.8	387
30	Carbohydrate translocation determines the phenolic content of Populus foliage: a test of the sinkâ€"source model of plant defense. New Phytologist, 2004, 164, 157-164.	7.3	118
31	CROSS-KINGDOM CROSS-TALK: HORMONES SHARED BY PLANTS AND THEIR INSECT HERBIVORES. Ecology, 2004, 85, 70-77.	3.2	45
32	Limitations of Folin assays of foliar phenolics in ecological studies. Journal of Chemical Ecology, 2001, 27, 761-778.	1.8	133
33	Probing the Role of Polyphenol Oxidation in Mediating Insectâˆ'Pathogen Interactions. Galloyl-Derived Electrophilic Traps for theLymantriadisparNuclear Polyhedrosis Virus Matrix Protein Polyhedrin. Journal of Organic Chemistry, 1999, 64, 5794-5803.	3.2	20
34	Gut physicochemistry of grassland grasshoppers. Journal of Insect Physiology, 1998, 44, 693-700.	2.0	8
35	Impact of dietary allelochemicals on gypsy moth (Lymantria dispar) caterpillars: importance of midgut alkalinity. Journal of Insect Physiology, 1997, 43, 1169-1175.	2.0	29
36	Galloyl-Derived Orthoquinones as Reactive Partners in Nucleophilic Additions and Dielsâˆ'Alder Dimerizations:Â A Novel Route to the Dehydrodigalloyl Linker Unit of Agrimoniin-Type Ellagitannins. Journal of Organic Chemistry, 1996, 61, 6656-6665.	3.2	58

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37	Oak Tannins Reduce Effectiveness of Thuricide (Bacillus thuringiensis) in the Gypsy Moth (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	54
38	Phenolics in ecological interactions: The importance of oxidation. Journal of Chemical Ecology, 1993, 19, 1521-1552.	1.8	606
39	Significance of Metabolic Load in the Evolution of Host Specificity of Manduca Sexta. Ecology, 1992, 73, 216-228.	3.2	85
40	Gut redox conditions in herbivorous lepidopteran larvae. Journal of Chemical Ecology, 1990, 16, 3277-3290.	1.8	102