

Meredith C Schuman

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,409
citations

218677

26
h-index

223800

46
g-index

76
all docs

76
docs citations

76
times ranked

2975
citing authors

#	ARTICLE	IF	CITATIONS
1	The Layers of Plant Responses to Insect Herbivores. Annual Review of Entomology, 2016, 61, 373-394.	11.8	287
2	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> . Plant Cell, 2010, 22, 273-292.	6.6	170
3	Herbivory-induced volatiles function as defenses increasing fitness of the native plant <i>Nicotiana attenuata</i> in nature. ELife, 2012, 1, e00007.	6.0	167
4	MAPK signaling: A key element in plant defense response to insects. Insect Science, 2015, 22, 157-164.	3.0	115
5	Current Challenges in Plant Eco-Metabolomics. International Journal of Molecular Sciences, 2018, 19, 1385.	4.1	106
6	A robust, simple, high-throughput technique for time-resolved plant volatile analysis in field experiments. Plant Journal, 2014, 78, 1060-1072.	5.7	101
7	Polymorphism in jasmonate signaling partially accounts for the variety of volatiles produced by <i>Nicotiana attenuata</i> plants in a native population. New Phytologist, 2009, 183, 1134-1148.	7.3	89
8	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation. Nature Ecology and Evolution, 2022, 6, 36-50.	7.8	89
9	A Comparison of Two <i>Nicotiana attenuata</i> Accessions Reveals Large Differences in Signaling Induced by Oral Secretions of the Specialist Herbivore <i>Manduca sexta</i> . Plant Physiology, 2008, 146, 927-939.	4.8	68
10	Tissue-Specific Emission of (E)- β -Bergamotene Helps Resolve the Dilemma When Pollinators Are Also Herbivores. Current Biology, 2017, 27, 1336-1341.	3.9	67
11	Ecological Roles and Biological Activities of Specialized Metabolites from the Genus <i>Nicotiana</i> . Chemical Reviews, 2017, 117, 12227-12280.	47.7	63
12	Oral secretions from <i>Mythimna separata</i> insects specifically induce defence responses in maize as revealed by high-dimensional biological data. Plant, Cell and Environment, 2016, 39, 1749-1766.	5.7	61
13	Information arms race explains plant-herbivore chemical communication in ecological communities. Science, 2020, 368, 1377-1381.	12.6	56
14	Flower-specific jasmonate signaling regulates constitutive floral defenses in wild tobacco. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7205-E7214.	7.1	55
15	Herbivore-induced volatile blends with both "fast" and "slow" components provide robust indirect defence in nature. Functional Ecology, 2018, 32, 136-149.	3.6	51
16	Plant defense phenotypes determine the consequences of volatile emission for individuals and neighbors. ELife, 2015, 4, .	6.0	50
17	Silencing jasmonate signalling and jasmonate-mediated defences reveals different survival strategies between two <i>Nicotiana attenuata</i> accessions. Molecular Ecology, 2008, 17, 3717-3732.	3.9	46
18	The Sesquiterpenes (E)- γ -Farnesene and (E)- β -Bergamotene Quench Ozone but Fail to Protect the Wild Tobacco <i>Nicotiana attenuata</i> from Ozone, UVB, and Drought Stresses. PLoS ONE, 2015, 10, e0127296.	2.5	44

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19	Genomics meets remote sensing in global change studies: monitoring and predicting phenology, evolution and biodiversity. <i>Current Opinion in Environmental Sustainability</i> , 2017, 29, 177-186.	6.3	42
20	Functional Traits 2.0: The power of the metabolome for ecology. <i>Journal of Ecology</i> , 2022, 110, 4-20.	4.0	42
21	An unbiased approach elucidates variation in (<i>S</i>)-(+)-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> , 2019, 116, 14651-14660.	7.1	41
22	Aphid (<i>Myzus persicae</i>) feeding on the parasitic plant dodder (<i>Cuscuta australis</i>) activates defense responses in both the parasite and soybean host. <i>New Phytologist</i> , 2018, 218, 1586-1596.	7.3	39
23	The Active Jasmonate JA-Ile Regulates a Specific Subset of Plant Jasmonate-Mediated Resistance to Herbivores in Nature. <i>Frontiers in Plant Science</i> , 2018, 9, 787.	3.6	33
24	Application of Silicone Tubing for Robust, Simple, High-throughput, and Time-resolved Analysis of Plant Volatiles in Field Experiments. <i>Bio-protocol</i> , 2015, 5, .	0.4	32
25	A Group D MAPK Protects Plants from Autotoxicity by Suppressing Herbivore-Induced Defense Signaling. <i>Plant Physiology</i> , 2019, 179, 1386-1401.	4.8	31
26	The decoration of specialized metabolites influences stylar development. <i>ELife</i> , 2018, 7, .	6.0	31
27	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> , 2014, 166, 779-797.	4.8	30
28	How does plant chemical diversity contribute to biodiversity at higher trophic levels?. <i>Current Opinion in Insect Science</i> , 2016, 14, 46-55.	4.4	28
29	ZEITLUPE in the Roots of Wild Tobacco Regulates Jasmonate-Mediated Nicotine Biosynthesis and Resistance to a Generalist Herbivore. <i>Plant Physiology</i> , 2018, 177, 833-846.	4.8	28
30	Chemical Classification of the Essential Oils of the Iranian <i>Salvia</i> Species in Comparison with Their Botanical Taxonomy. <i>Chemistry and Biodiversity</i> , 2012, 9, 1254-1271.	2.1	26
31	Herbivory elicits changes in green leaf volatile production via jasmonate signaling and the circadian clock. <i>Plant, Cell and Environment</i> , 2019, 42, 972-982.	5.7	25
32	Field studies reveal functions of chemical mediators in plant interactions. <i>Chemical Society Reviews</i> , 2018, 47, 5338-5353.	38.1	24
33	Cytokinin transfer by a free-living mirid to <i>Nicotiana attenuata</i> recapitulates a strategy of endophytic insects. <i>ELife</i> , 2018, 7, .	6.0	24
34	Manipulating two olfactory cues causes a biological control beetle to shift to non-target plant species. <i>Journal of Ecology</i> , 2017, 105, 1534-1546.	4.0	21
35	Intraspecific genetic variation of a <i>Fagus sylvatica</i> population in a temperate forest derived from airborne imaging spectroscopy time series. <i>Ecology and Evolution</i> , 2020, 10, 7419-7430.	1.9	21
36	Ecological Observations of Native <i>Geocoris pallens</i> and <i>G. punctipes</i> Populations in the Great Basin Desert of Southwestern Utah. <i>Psyche: Journal of Entomology</i> , 2013, 2013, 1-11.	0.9	16

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37	<i>NaMYB8</i> regulates distinct, optimally distributed herbivore defense traits. <i>Journal of Integrative Plant Biology</i> , 2017, 59, 844-850.	8.5	16
38	The Use of VIGS Technology to Study Plant-Herbivore Interactions. <i>Methods in Molecular Biology</i> , 2013, 975, 109-137.	0.9	15
39	The Clock Gene <i>TOC1</i> in Shoots, Not Roots, Determines Fitness of <i>Nicotiana attenuata</i> under Drought. <i>Plant Physiology</i> , 2019, 181, 305-318.	4.8	15
40	Light dominates the diurnal emissions of herbivore-induced volatiles in wild tobacco. <i>BMC Plant Biology</i> , 2021, 21, 401.	3.6	15
41	Sex ratio of mirid populations shifts in response to hostplant co-infestation or altered cytokinin signaling. <i>Journal of Integrative Plant Biology</i> , 2017, 59, 44-59.	8.5	14
42	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> , 2016, 58, 656-668.	8.5	13
43	<i>Cry1Ac</i> production is costly for native plants attacked by non- <i>Cry1Ac</i> -targeted herbivores in the field. <i>New Phytologist</i> , 2018, 219, 714-727.	7.3	13
44	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> , 2020, 228, 1083-1096.	7.3	11
45	Jasmonate signaling makes flowers attractive to pollinators and repellent to florivores in nature. <i>Journal of Integrative Plant Biology</i> , 2018, 60, 190-194.	8.5	10
46	The circadian clock contributes to diurnal patterns of plant indirect defense in nature. <i>Journal of Integrative Plant Biology</i> , 2019, 61, 924-928.	8.5	10
47	<i>TOC1</i> in <i>Nicotiana attenuata</i> regulates efficient allocation of nitrogen to defense metabolites under herbivory stress. <i>New Phytologist</i> , 2020, 228, 1227-1242.	7.3	9
48	Plant-insect chemical communication in ecological communities: An information theory perspective. <i>Journal of Systematics and Evolution</i> , 2023, 61, 445-453.	3.1	8
49	Temporal Dynamics of Plant Volatiles: Mechanistic Bases and Functional Consequences. <i>Signaling and Communication in Plants</i> , 2016, , 3-34.	0.7	6
50	Neomycin: An Effective Inhibitor of Jasmonate-Induced Reactions in Plants. <i>Journal of Plant Growth Regulation</i> , 2019, 38, 713-722.	5.1	6
51	Determining the scale at which variation in a single gene changes population yields. <i>ELife</i> , 2020, 9, .	6.0	6
52	Asking the ecosystem if herbivory-inducible plant volatiles (HIPVs) have defensive functions. , 2012, , 287-307.		5
53	BII-Implementation: The causes and consequences of plant biodiversity across scales in a rapidly changing world. <i>Research Ideas and Outcomes</i> , 0, 7, .	1.0	5
54	Functional variation in a key defense gene structures herbivore communities and alters plant performance. <i>PLoS ONE</i> , 2018, 13, e0197221.	2.5	4

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55	Natural variation in linalool metabolites: One genetic locus, many functions?. Journal of Integrative Plant Biology, 2021, 63, 1416-1421.	8.5	3
56	Hiding in plain smell. ELife, 2020, 9, .	6.0	0