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List of Publications by Year
in descending order

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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	Plantâ€“insect chemical communication in ecological communities: An information theory perspective. Journal of Systematics and Evolution, 2023, 61, 445-453.	3.1	8
2	Functional Traits 2.0: The power of the metabolome for ecology. Journal of Ecology, 2022, 110, 4-20.	4.0	42
3	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
4	Natural variation in linalool metabolites: One genetic locus, many functions?. Journal of Integrative Plant Biology, 2021, 63, 1416-1421.	8.5	3
5	Light dominates the diurnal emissions of herbivore-induced volatiles in wild tobacco. BMC Plant Biology, 2021, 21, 401.	3.6	15
6	Allelic differences of clustered terpene synthases contribute to correlated intraspecific variation of floral and herbivoryâ€induced volatiles in a wild tobacco. New Phytologist, 2020, 228, 1083-1096.	7.3	11
7	Information arms race explains plant-herbivore chemical communication in ecological communities. Science, 2020, 368, 1377-1381.	12.6	56
8	Intraspecific genetic variation of a <i>Fagus sylvatica</i> population in a temperate forest derived from airborne imaging spectroscopy time series. Ecology and Evolution, 2020, 10, 7419-7430.	1.9	21
9	<i>TOC1</i> in <i>Nicotiana attenuata</i> regulates efficient allocation of nitrogen to defense metabolites under herbivory stress. New Phytologist, 2020, 228, 1227-1242.	7.3	9
10	Hiding in plain smell. ELife, 2020, 9, .	6.0	0
11	Determining the scale at which variation in a single gene changes population yields. ELife, 2020, 9, .	6.0	6
12	An unbiased approach elucidates variation in (<i>S</i>)-(+)-linalool, a context-specific mediator of a tri-trophic interaction in wild tobacco. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14651-14660.	7.1	41
13	The Clock Gene TOC1 in Shoots, Not Roots, Determines Fitness of <i>Nicotiana attenuata</i> under Drought. Plant Physiology, 2019, 181, 305-318.	4.8	15
14	A Group D MAPK Protects Plants from Autotoxicity by Suppressing Herbivore-Induced Defense Signaling. Plant Physiology, 2019, 179, 1386-1401.	4.8	31
15	Neomycin: An Effective Inhibitor of Jasmonate-Induced Reactions in Plants. Journal of Plant Growth Regulation, 2019, 38, 713-722.	5.1	6
16	Herbivory elicits changes in green leaf volatile production via jasmonate signaling and the circadian clock. Plant, Cell and Environment, 2019, 42, 972-982.	5.7	25
17	The circadian clock contributes to diurnal patterns of plant indirect defense in nature. Journal of Integrative Plant Biology, 2019, 61, 924-928.	8.5	10
18	ZEITLUPE in the Roots of Wild Tobacco Regulates Jasmonate-Mediated Nicotine Biosynthesis and Resistance to a Generalist Herbivore. Plant Physiology, 2018, 177, 833-846.	4.8	28

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19	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. New Phytologist, 2018, 218, 1586-1596.	7.3	39
20	Jasmonate signaling makes flowers attractive to pollinators and repellant to florivores in nature. Journal of Integrative Plant Biology, 2018, 60, 190-194.	8.5	10
21	Herbivoreâ€induced volatile blends with both â€œfastâ€•and â€œslowâ€•components provide robust indirect defence in nature. Functional Ecology, 2018, 32, 136-149.	3.6	51
22	Field studies reveal functions of chemical mediators in plant interactions. Chemical Society Reviews, 2018, 47, 5338-5353.	38.1	24
23	Cry1Ac production is costly for native plants attacked by nonâ€Cry1Acâ€targeted herbivores in the field. New Phytologist, 2018, 219, 714-727.	7.3	13
24	The Active Jasmonate JA-Ile Regulates a Specific Subset of Plant Jasmonate-Mediated Resistance to Herbivores in Nature. Frontiers in Plant Science, 2018, 9, 787.	3.6	33
25	Functional variation in a key defense gene structures herbivore communities and alters plant performance. PLoS ONE, 2018, 13, e0197221.	2.5	4
26	Current Challenges in Plant Eco-Metabolomics. International Journal of Molecular Sciences, 2018, 19, 1385.	4.1	106
27	Cytokinin transfer by a free-living mirid to Nicotiana attenuata recapitulates a strategy of endophytic insects. ELife, 2018, 7, .	6.0	24
28	The decoration of specialized metabolites influences stylar development. ELife, 2018, 7, .	6.0	31
29	Tissue-Specific Emission of (E)-Î±-Bergamotene Helps Resolve the Dilemma When Pollinators Are Also Herbivores. Current Biology, 2017, 27, 1336-1341.	3.9	67
30	Manipulating two olfactory cues causes a biological control beetle to shift to nonâ€target plant species. Journal of Ecology, 2017, 105, 1534-1546.	4.0	21
31	Ecological Roles and Biological Activities of Specialized Metabolites from the Genus<i>Nicotiana</i>. Chemical Reviews, 2017, 117, 12227-12280.	47.7	63
32	<i>NaMYB8</i> regulates distinct, optimally distributed herbivore defense traits. Journal of Integrative Plant Biology, 2017, 59, 844-850.	8.5	16
33	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
34	Sex ratio of mirid populations shifts in response to hostplant coâ€infestation or altered cytokinin signaling. Journal of Integrative Plant Biology, 2017, 59, 44-59.	8.5	14
35	Genomics meets remote sensing in global change studies: monitoring and predicting phenology, evolution and biodiversity. Current Opinion in Environmental Sustainability, 2017, 29, 177-186.	6.3	42
36	Shifting <i>Nicotiana attenuata</i>'s diurnal rhythm does not alter its resistance to the specialist herbivore <i>Manduca sexta</i>. Journal of Integrative Plant Biology, 2016, 58, 656-668.	8.5	13

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37	Oral secretions from <i>Mythimna separata</i> insects specifically induce defence responses in maize as revealed by highâ€dimensional biological data. Plant, Cell and Environment, 2016, 39, 1749-1766.	5.7	61
38	Temporal Dynamics of Plant Volatiles: Mechanistic Bases and Functional Consequences. Signaling and Communication in Plants, 2016, , 3-34.	0.7	6
39	The Layers of Plant Responses to Insect Herbivores. Annual Review of Entomology, 2016, 61, 373-394.	11.8	287
40	How does plant chemical diversity contribute to biodiversity at higher trophic levels?. Current Opinion in Insect Science, 2016, 14, 46-55.	4.4	28
41	MAPK signaling: A key element in plant defense response to insects. Insect Science, 2015, 22, 157-164.	3.0	115
42	The Sesquiterpenes(E)-ÃŸ-Farnesene and (E)-Î±-Bergamotene Quench Ozone but Fail to Protect the Wild Tobacco Nicotiana attenuata from Ozone, UVB, and Drought Stresses. PLoS ONE, 2015, 10, e0127296.	2.5	44
43	Application of Silicone Tubing for Robust, Simple, High-throughput, and Time-resolved Analysis of Plant Volatiles in Field Experiments. Bio-protocol, 2015, 5, .	0.4	32
44	Plant defense phenotypes determine the consequences of volatile emission for individuals and neighbors. ELife, 2015, 4, .	6.0	50
45	A robust, simple, highâ€throughput technique for timeâ€resolved plant volatile analysis in field experiments. Plant Journal, 2014, 78, 1060-1072.	5.7	101
46	Ectopic Terpene Synthase Expression Enhances Sesquiterpene Emission in Nicotiana attenuata without Altering Defense or Development of Transgenic Plants or Neighbors. Plant Physiology, 2014, 166, 779-797.	4.8	30
47	The Use of VIGS Technology to Study Plantâ€“Herbivore Interactions. Methods in Molecular Biology, 2013, 975, 109-137.	0.9	15
48	Ecological Observations of Native<i>Geocoris pallens</i>and<i>G. punctipes</i>Populations in the Great Basin Desert of Southwestern Utah. Psyche: Journal of Entomology, 2013, 2013, 1-11.	0.9	16
49	Asking the ecosystem if herbivory-inducible plant volatiles (HIPVs) have defensive functions. , 2012, , 287-307.		5
50	Chemical Classification of the Essential Oils of the Iranian <i>Salvia</i> Species in Comparison with Their Botanical Taxonomy. Chemistry and Biodiversity, 2012, 9, 1254-1271.	2.1	26
51	Herbivory-induced volatiles function as defenses increasing fitness of the native plant Nicotiana attenuata in nature. ELife, 2012, 1, e00007.	6.0	167
52	Jasmonate and ppHsystemin Regulate Key Malonylation Steps in the Biosynthesis of 17-Hydroxygeranyllinalool Diterpene Glycosides, an Abundant and Effective Direct Defense against Herbivores in<i>Nicotiana attenuata</i>Â. Plant Cell, 2010, 22, 273-292.	6.6	170
53	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
54	Silencing jasmonate signalling and jasmonateâ€mediated defences reveals different survival strategies between two <i>Nicotiana attenuata</i> accessions. Molecular Ecology, 2008, 17, 3717-3732.	3.9	46

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55	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> Â Â Â. Plant Physiology, 2008, 146, 927-939.	4.8	68
56	BII-Implementation: The causes and consequences of plant biodiversity across scales in a rapidly changing world. Research Ideas and Outcomes, 0, 7, .	1.0	5