Jonathan Gershenzon

List of Publications by Year
in descending order

432 papers	44,945 citations	1530 106 h-index	2883 190 g-index
449 all docs	449 docs citations	449 times ranked	27123 citing authors

#	Article	IF	Citations
1	Biosynthesis and antifungal activity of fungus-induced <i>O</i>-methylated flavonoids in maize. Plant Physiology, 2022, 188, 167-190.	2.3	32
2	Plants protect themselves from herbivores by optimizing the distribution of chemical defenses. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	17
3	Evolution of DIMBOA-Glc O-Methyltransferases from Flavonoid O-Methyltransferases in the Grasses. Molecules, 2022, 27, 1007.	1.7	2
4	Effect of Drought and Methyl Jasmonate Treatment on Primary and Secondary Isoprenoid Metabolites Derived from the MEP Pathway in the White Spruce Picea glauca. International Journal of Molecular Sciences, 2022, 23, 3838.	1.8	4
5	Origin and early evolution of the plant terpene synthase family. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2100361119.	3.3	48
6	Lack of antagonism between salicylic acid and jasmonate signalling pathways in poplar. New Phytologist, 2022, 235, 701-717.	3.5	32
7	CRISPR/Cas9 disruption of <i>UGT71L1</i> in poplar connects salicinoid and salicylic acid metabolism and alters growth and morphology. Plant Cell, 2022, 34, 2925-2947.	3.1	8
8	Bark Beetle Attack History Does Not Influence the Induction of Terpene and Phenolic Defenses in Mature Norway Spruce (Picea abies) Trees by the Bark Beetle-Associated Fungus Endoconidiophora polonica. Frontiers in Plant Science, 2022, 13, .	1.7	4
9	Specialist root herbivore modulates plant transcriptome and downregulates defensive secondary metabolites in a brassicaceous plant. New Phytologist, 2022, 235, 2378-2392.	3.5	2
10	Alternative transcript splicing regulates UDP-glucosyltransferase-catalyzed detoxification of DIMBOA in the fall armyworm (Spodoptera frugiperda). Scientific Reports, 2022, 12, .	1.6	4
11	Differential effects of the rhizobacterium Pseudomonas simiae on aboveâ€•and belowground chewing insect herbivores. Journal of Applied Entomology, 2021, 145, 250-260.	0.8	7
12	Differential localization of flavonoid glucosides in an aquatic plant implicates different functions under abiotic stress. Plant, Cell and Environment, 2021, 44, 900-914.	2.8	22
13	Effect of forest stand type on host plant quality and direct and indirect effects on pine sawfly performance. Agricultural and Forest Entomology, 2021, 23, 163-172.	0.7	1
14	<i>Sclerotinia</i> <i>sclerotiorum</i> Infection Triggers Changes in Primary and Secondary Metabolism in <i>Arabidopsis thaliana</i>. Phytopathology, 2021, 111, 559-569.	1.1	15
15	The Sesquiterpene Synthase PtTPS5 Produces (1S,5S,7R,10R)-Guaia-4(15)-en-11-ol and (1S,7R,10R)-Guaia-4-en-11-ol in Oomycete-Infected Poplar Roots. Molecules, 2021, 26, 555.	1.7	11
16	Poplar MYB117 promotes anthocyanin synthesis and enhances flavonoid B-ring hydroxylation by up-regulating the flavonoid 3â€²,5â€²-hydroxylase gene. Journal of Experimental Botany, 2021, 72, 3864-3880.	2.4	23
17	A peroxisomal Î²-oxidative pathway contributes to the formation of C6â€“C1 aromatic volatiles in poplar. Plant Physiology, 2021, 186, 891-909.	2.3	12
18	Negative regulation of plastidial isoprenoid pathway by herbivore-induced Î²-cyclocitral in <i>Arabidopsis thaliana</i>. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	30

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19	Vulnerability and responses to bark beetle and associated fungal symbiont attacks in conifers. Tree Physiology, 2021, 41, 1103-1108.	1.4	3
20	Poplar protease inhibitor expression differs in an herbivore specific manner. BMC Plant Biology, 2021, 21, 170.	1.6	5
21	So Much for Glucosinolates: A Generalist Does Survive and Develop on Brassicas, but at What Cost?. Plants, 2021, 10, 962.	1.6	13
22	Activation and detoxification of cassava cyanogenic glucosides by the whitefly Bemisia tabaci. Scientific Reports, 2021, 11, 13244.	1.6	17
23	Ecological factors influence balancing selection on leaf chemical profiles of a wildflower. Nature Ecology and Evolution, 2021, 5, 1135-1144.	3.4	14
24	Identification of a Sulfatase that Detoxifies Glucosinolates in the Phloem-Feeding Insect Bemisia tabaci and Prefers Indolic Glucosinolates. Frontiers in Plant Science, 2021, 12, 671286.	1.7	10
25	Volatile emission and biosynthesis in endophytic fungi colonizing black poplar leaves. Beilstein Journal of Organic Chemistry, 2021, 17, 1698-1711.	1.3	3
26	Storage of carbon reserves in spruce trees is prioritized over growth in the face of carbon limitation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	45
27	A Cryptic Plant Terpene Cyclase Producing Unconventional 18â€•and 14â€Membered Macrocyclic C₂₅ and C₂₀ Terpenoids with Immunosuppressive Activity. Angewandte Chemie - International Edition, 2021, 60, 25468-25476.	7.2	14
28	A Cryptic Plant Terpene Cyclase Producing Unconventional 18â€•and 14â€Membered Macrocyclic C₂₅ and C₂₀ Terpenoids with Immunosuppressive Activity. Angewandte Chemie, 2021, 133, 25672-25680.	1.6	0
29	The selective sequestration of glucosinolates by the cabbage aphid severely impacts a predatory lacewing. Journal of Pest Science, 2021, 94, 1147-1160.	1.9	8
30	A beta-glucosidase of an insect herbivore determines both toxicity and deterrence of a dandelion defense metabolite. ELife, 2021, 10, .	2.8	8
31	The biosynthesis of thymol, carvacrol, and thymohydroquinone in Lamiaceae proceeds via cytochrome P450s and a short-chain dehydrogenase. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	44
32	Plant glucosinolate content increases susceptibility to diamondback moth (Lepidoptera: Plutellidae) regardless of its diet. Journal of Pest Science, 2020, 93, 491-506.	1.9	16
33	Tree defence and bark beetles in a drying world: carbon partitioning, functioning and modelling. New Phytologist, 2020, 225, 26-36.	3.5	144
34	Foliar herbivory by caterpillars and aphids differentially affects phytohormonal signalling in roots and plant defence to a root herbivore. Plant, Cell and Environment, 2020, 43, 775-786.	2.8	31
35	Improving Phenolic Total Content and Monoterpene in Mentha x piperita by Using Salicylic Acid or Methyl Jasmonate Combined with Rhizobacteria Inoculation. International Journal of Molecular Sciences, 2020, 21, 50.	1.8	59
36	Glucosylation prevents plant defense activation in phloem-feeding insects. Nature Chemical Biology, 2020, 16, 1420-1426.	3.9	30

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37	Effect of Drought on the Methylerythritol 4-Phosphate (MEP) Pathway in the Isoprene Emitting Conifer Picea glauca. Frontiers in Plant Science, 2020, 11, 546295.	1.7	27
38	The reconstruction and biochemical characterization of ancestral genes furnish insights into the evolution of terpene synthase function in the Poaceae. Plant Molecular Biology, 2020, 104, 203-215.	2.0	11
39	Detoxification of plant defensive glucosinolates by an herbivorous caterpillar is beneficial to its endoparasitic wasp. Molecular Ecology, 2020, 29, 4014-4031.	2.0	19
40	The nesting preference of an invasive ant is associated with the cues produced by actinobacteria in soil. PLoS Pathogens, 2020, 16, e1008800.	2.1	24
41	Evolution of isoprenyl diphosphate synthase-like terpene synthases in fungi. Scientific Reports, 2020, 10, 14944.	1.6	14
42	Simultaneous Real-Time Measurement of Isoprene and 2-Methyl-3-Buten-2-ol Emissions From Trees Using SIFT-MS. Frontiers in Plant Science, 2020, 11, 578204.	1.7	7
43	The Fall Armyworm Spodoptera frugiperda Utilizes Specific UDP-Glycosyltransferases to Inactivate Maize Defensive Benzoxazinoids. Frontiers in Physiology, 2020, 11, 604754.	1.3	29
44	The phytopathogenic fungus Sclerotinia sclerotiorum detoxifies plant glucosinolate hydrolysis products via an isothiocyanate hydrolase. Nature Communications, 2020, 11, 3090.	5.8	65
45	The Product Specificities of Maize Terpene Synthases TPS4 and TPS10 Are Determined Both by Active Site Amino Acids and Residues Adjacent to the Active Site. Plants, 2020, 9, 552.	1.6	8
46	A light-dependent molecular link between competition cues and defence responses in plants. Nature Plants, 2020, 6, 223-230.	4.7	92
47	Variable dependency on associated yeast communities influences host range in <i>Drosophila</i> species. Oikos, 2020, 129, 964-982.	1.2	18
48	Canditate metabolites for ash dieback tolerance in Fraxinus excelsior. Journal of Experimental Botany, 2020, 71, 6074-6083.	2.4	13
49	Analysis of the isoprenoid pathway intermediates, dimethylallyl diphosphate and isopentenyl diphosphate, from crude plant extracts by liquid chromatography tandem mass spectrometry. Phytochemical Analysis, 2020, 31, 770-777.	1.2	4
50	The Occurrence of Sulfated Salicinoids in Poplar and Their Formation by Sulfotransferase1. Plant Physiology, 2020, 183, 137-151.	2.3	12
51	Production of constitutive and induced secondary metabolites is coordinated with growth and storage in Norway spruce saplings. Tree Physiology, 2020, 40, 928-942.	1.4	18
52	Herbivory meets fungivory: insect herbivores feed on plant pathogenic fungi for their own benefit. Ecology Letters, 2020, 23, 1073-1084.	3.0	23
53	Spruce Phenolics: Biosynthesis and Ecological Functions. Compendium of Plant Genomes, 2020, , 193-214.	0.3	4
54	Fungal associates of the tree-killing bark beetle, Ips typographus, vary in virulence, ability to degrade conifer phenolics and influence bark beetle tunneling behavior. Fungal Ecology, 2019, 38, 71-79.	0.7	89

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55	Terpene Synthase Genes Originated from Bacteria through Horizontal Gene Transfer Contribute to Terpenoid Diversity in Fungi. Scientific Reports, 2019, 9, 9223.	1.6	31
56	Identification and Characterization of trans-Isopentenyl Diphosphate Synthases Involved in Herbivory-Induced Volatile Terpene Formation in Populus trichocarpa. Molecules, 2019, 24, 2408.	1.7	12
57	Phenylacetaldehyde synthase 2 does not contribute to the constitutive formation of 2-phenylethyl-Î²-D-glucopyranoside in poplar. Plant Signaling and Behavior, 2019, 14, 1668233.	1.2	2
58	Chemical convergence between plants and insects: biosynthetic origins and functions of common secondary metabolites. New Phytologist, 2019, 223, 52-67.	3.5	90
59	Herbivore-induced volatile emission from old-growth black poplar trees under field conditions. Scientific Reports, 2019, 9, 7714.	1.6	21
60	Strigolactones enhance rootâ€knot nematode (<i>Meloidogyne graminicola</i>) infection in rice by antagonizing the jasmonate pathway. New Phytologist, 2019, 224, 454-465.	3.5	47
61	Roles of plant volatiles in defence against microbial pathogens and microbial exploitation of volatiles. Plant, Cell and Environment, 2019, 42, 2827-2843.	2.8	162
62	<i>Sclerotinia sclerotiorum</i> Circumvents Flavonoid Defenses by Catabolizing Flavonol Glycosides and Aglycones. Plant Physiology, 2019, 180, 1975-1987.	2.3	42
63	Induction of essential oil production in Mentha x piperita by plant growth promoting bacteria was correlated with an increase in jasmonate and salicylate levels and a higher density of glandular trichomes. Plant Physiology and Biochemistry, 2019, 141, 142-153.	2.8	54
64	Molecular Basis of the Evolution of Methylthioalkylmalate Synthase and the Diversity of Methionine-Derived Glucosinolates. Plant Cell, 2019, 31, 1633-1647.	3.1	37
65	Low genetic variation is associated with low mutation rate in the giant duckweed. Nature Communications, 2019, 10, 1243.	5.8	65
66	Heterotic patterns of primary and secondary metabolites in the oilseed crop Brassica juncea. Heredity, 2019, 123, 318-336.	1.2	22
67	The use of Leaf Surface Contact Cues During Oviposition Explains Field Preferences in the Willow Sawfly Nematus oligospilus. Scientific Reports, 2019, 9, 4946.	1.6	15
68	Separate Pathways Contribute to the Herbivore-Induced Formation of 2-Phenylethanol in Poplar. Plant Physiology, 2019, 180, 767-782.	2.3	22
69	Flavanone-3-Hydroxylase Plays an Important Role in the Biosynthesis of Spruce Phenolic Defenses Against Bark Beetles and Their Fungal Associates. Frontiers in Plant Science, 2019, 10, 208.	1.7	54
70	Volatile organic compounds influence the interaction of the Eurasian spruce bark beetle (<i>Ips) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	4.4	78
71	Specificity of Herbivore Defense Responses in a Woody Plant, Black Poplar (Populus nigra). Journal of Chemical Ecology, 2019, 45, 162-177.	0.9	25
72	Plant volatile emission depends on the species composition of the neighboring plant community. BMC Plant Biology, 2019, 19, 58.	1.6	75

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73	The plastidial metabolite 2â€<i>C</i>â€methylâ€<i>D</i>â€erythritolâ€²,4â€cyclodiphosphate modulates defence responses against aphids. Plant, Cell and Environment, 2019, 42, 2309-2323.	2.8	15
74	Untargeted Metabolomics Approach Reveals Differences in Host Plant Chemistry Before and After Infestation With Different Pea Aphid Host Races. Frontiers in Plant Science, 2019, 10, 188.	1.7	50
75	Tritrophic metabolism of plant chemical defenses and its effects on herbivore and predator performance. ELife, 2019, 8, .	2.8	35
76	Traitâ€mediated indirect interactions: Moose browsing increases sawfly fecundity through plantâ€induced responses. Ecology and Evolution, 2019, 9, 10615-10629.	0.8	7
77	Accumulation of Catechin and Proanthocyanidins in Black Poplar Stems After Infection by Plectosphaerella populi: Hormonal Regulation, Biosynthesis and Antifungal Activity. Frontiers in Plant Science, 2019, 10, 1441.	1.7	32
78	Salicylic acid activates poplar defense against the biotrophic rust fungus <i>Melampsora lariciâ€populina</i> via increased biosynthesis of catechin and proanthocyanidins. New Phytologist, 2019, 221, 960-975.	3.5	103
79	Terpene Biosynthesis in Red Algae Is Catalyzed by Microbial Type But Not Typical Plant Terpene Synthases. Plant Physiology, 2019, 179, 382-390.	2.3	40
80	Eyes on the future â€“ evidence for tradeâ€offs between growth, storage and defense in Norway spruce. New Phytologist, 2019, 222, 144-158.	3.5	88
81	A terpene synthase-cytochrome P450 cluster in Dictyostelium discoideum produces a novel trisnorsesquiterpene. ELife, 2019, 8, .	2.8	11
82	Inferring Roles in Defense from Metabolic Allocation of Rice Diterpenoids. Plant Cell, 2018, 30, 1119-1131.	3.1	55
83	Gallocatechin biosynthesis via a flavonoid 3â€²,5â€²-hydroxylase is a defense response in Norway spruce against infection by the bark beetle-associated sap-staining fungus Endoconidiophora polonica. Phytochemistry, 2018, 148, 78-86.	1.4	28
84	Caterpillars induce jasmonates in flowers and alter plant responses to a second attacker. New Phytologist, 2018, 217, 1279-1291.	3.5	25
85	Leaf rust infection reduces herbivoreâ€induced volatile emission in black poplar and attracts a generalist herbivore. New Phytologist, 2018, 220, 760-772.	3.5	52
86	Covariation and phenotypic integration in chemical communication displays: biosynthetic constraints and ecoâ€evolutionary implications. New Phytologist, 2018, 220, 739-749.	3.5	101
87	MTPSLs: New Terpene Synthases in Nonseed Plants. Trends in Plant Science, 2018, 23, 121-128.	4.3	48
88	The occurrence and formation of monoterpenes in herbivore-damaged poplar roots. Scientific Reports, 2018, 8, 17936.	1.6	31
89	Rust Infection of Black Poplar Trees Reduces Photosynthesis but Does Not Affect Isoprene Biosynthesis or Emission. Frontiers in Plant Science, 2018, 9, 1733.	1.7	11
90	Convergent evolution of a metabolic switch between aphid and caterpillar resistance in cereals. Science Advances, 2018, 4, eaat6797.	4.7	58

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91	Plant Defensive Î²-Glucosidases Resist Digestion and Sustain Activity in the Gut of a Lepidopteran Herbivore. Frontiers in Plant Science, 2018, 9, 1389.	1.7	29
92	Diversity and Functional Evolution of Terpene Synthases in Dictyostelid Social Amoebae. Scientific Reports, 2018, 8, 14361.	1.6	11
93	Ant-like Traits in Wingless Parasitoids Repel Attack from Wolf Spiders. Journal of Chemical Ecology, 2018, 44, 894-904.	0.9	5
94	The nitrilase PtNIT1 catabolizes herbivore-induced nitriles in Populus trichocarpa. BMC Plant Biology, 2018, 18, 251.	1.6	13
95	New Perspectives on CO₂, Temperature, and Light Effects on BVOC Emissions Using Online Measurements by PTR-MS and Cavity Ring-Down Spectroscopy. Environmental Science & Technology, 2018, 52, 13811-13823.	4.6	31
96	Dealing with food shortage: larval dispersal behaviour and survival on nonâ€prey food of the hoverfly <i>Episyrphus balteatus</i>. Ecological Entomology, 2018, 43, 578-590.	1.1	7
97	Two R2R3â€<scp>MYB</scp> proteins are broad repressors of flavonoid and phenylpropanoid metabolism in poplar. Plant Journal, 2018, 96, 949-965.	2.8	137
98	Barley yellow dwarf virus Infection Leads to Higher Chemical Defense Signals and Lower Electrophysiological Reactions in Susceptible Compared to Tolerant Barley Genotypes. Frontiers in Plant Science, 2018, 9, 145.	1.7	17
99	Alternaria Brassicae Induces Systemic Jasmonate Responses in Arabidopsis Which Travel to Neighboring Plants via a Piriformsopora Indica Hyphal Network and Activate Abscisic Acid Responses. Frontiers in Plant Science, 2018, 9, 626.	1.7	26
100	Verticillium dahliae-Arabidopsis Interaction Causes Changes in Gene Expression Profiles and Jasmonate Levels on Different Time Scales. Frontiers in Microbiology, 2018, 9, 217.	1.5	70
101	Seasonal and herbivore-induced dynamics of foliar glucosinolates in wild cabbage (Brassica) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.6	28
102	Plant iron acquisition strategy exploited by an insect herbivore. Science, 2018, 361, 694-697.	6.0	98
103	Terpenoid Biosynthesis: The Basic Pathway and Formation of Monoterpenes, Sesquiterpenes, and Diterpenes. , 2018, , 339-388.		22
104	Chromatin mapping identifies BasR, a key regulator of bacteria-triggered production of fungal secondary metabolites. ELife, 2018, 7, .	2.8	44
105	Gut microbiota of the pine weevil degrades conifer diterpenes and increases insect fitness. Molecular Ecology, 2017, 26, 4099-4110.	2.0	143
106	A Generalist Herbivore Copes with Specialized Plant Defence: the Effects of Induction and Feeding by Helicoverpa armigera (Lepidoptera: Noctuidae) Larvae on Intact Arabidopsis thaliana (Brassicales) Plants. Journal of Chemical Ecology, 2017, 43, 608-616.	0.9	17
107	Poplar MYB115 and MYB134 Transcription Factors Regulate Proanthocyanidin Synthesis and Structure. Plant Physiology, 2017, 174, 154-171.	2.3	122
108	Intraspecific chemical diversity among neighbouring plants correlates positively with plant size and herbivore load but negatively with herbivore damage. Ecology Letters, 2017, 20, 87-97.	3.0	50

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109	Flavan-3-ols Are an Effective Chemical Defense against Rust Infection. Plant Physiology, 2017, 175, 1560-1578.	2.3	156
110	CYP79 P450 monooxygenases in gymnosperms: CYP79A118 is associated with the formation of taxiphyllin in Taxus baccata. Plant Molecular Biology, 2017, 95, 169-180.	2.0	31
111	Releasing plant volatiles, as simple as ABC. Science, 2017, 356, 1334-1335.	6.0	7
112	How Glucosinolates Affect Generalist Lepidopteran Larvae: Growth, Development and Glucosinolate Metabolism. Frontiers in Plant Science, 2017, 8, 1995.	1.7	93
113	Four terpene synthases contribute to the generation of chemotypes in tea tree (Melaleuca) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	1.6	17
114	Sequestration and activation of plant toxins protect the western corn rootworm from enemies at multiple trophic levels. ELife, 2017, 6, .	2.8	68
115	Benzoxazinoids: Reactivity and Modes of Action of a Versatile Class of Plant Chemical Defenses. Journal of the Brazilian Chemical Society, 2016, , .	0.6	15
116	Insect Detoxification of Glucosinolates and Their Hydrolysis Products. Advances in Botanical Research, 2016, 80, 199-245.	0.5	65
117	Optimization of Engineered Production of the Glucoraphanin Precursor Dihomomethionine in Nicotiana benthamiana. Frontiers in Bioengineering and Biotechnology, 2016, 4, 14.	2.0	47
118	A Latex Metabolite Benefits Plant Fitness under Root Herbivore Attack. PLoS Biology, 2016, 14, e1002332.	2.6	71
119	Modulation of Legume Defense Signaling Pathways by Native and Non-native Pea Aphid Clones. Frontiers in Plant Science, 2016, 07, 1872.	1.7	26
120	Catechol dioxygenases catalyzing the first step in Norway spruce phenolic degradation are key virulence factors in the bark beetle-vectored fungus Endoconidiophora polonica. Plant Physiology, 2016, 171, pp.01916.2015.	2.3	75
121	The gut microbiota of the pine weevil is similar across Europe and resembles that of other coniferâ€feeding beetles. Molecular Ecology, 2016, 25, 4014-4031.	2.0	75
122	Differential induction of plant chemical defenses by parasitized and unparasitized herbivores: consequences for reciprocal, multitrophic interactions. Oikos, 2016, 125, 1398-1407.	1.2	34
123	Hoverfly preference for high honeydew amounts creates enemyâ€free space for aphids colonizing novel host plants. Journal of Animal Ecology, 2016, 85, 1286-1297.	1.3	7
124	Feeding Experience Affects the Behavioral Response of Polyphagous Gypsy Moth Caterpillars to Herbivore-induced Poplar Volatiles. Journal of Chemical Ecology, 2016, 42, 382-393.	0.9	42
125	Novel family of terpene synthases evolved from <i>trans</i> -isoprenyl diphosphate synthases in a flea beetle. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2922-2927.	3.3	72
126	A Geranylfarnesyl Diphosphate Synthase Provides the Precursor for Sesterterpenoid (C₂₅) Formation in the Glandular Trichomes of the Mint Species <i>Leucosceptrum canum</i>. Plant Cell, 2016, 28, 804-822.	3.1	48

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127	Quantifying the Metabolites of the Methylerythritol 4-Phosphate (MEP) Pathway in Plants and Bacteria by Liquid Chromatographyâ€“Triple Quadrupole Mass Spectrometry. Methods in Enzymology, 2016, 576, 225-249.	0.4	18
128	Characterization of Biosynthetic Pathways for the Production of the Volatile Homoterpenes DMNT and TMTT in <i>Zea mays</i>. Plant Cell, 2016, 28, 2651-2665.	3.1	105
129	Microbial-type terpene synthase genes occur widely in nonseed land plants, but not in seed plants. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12328-12333.	3.3	70
130	Terpene synthase genes in eukaryotes beyond plants and fungi: Occurrence in social amoebae. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12132-12137.	3.3	92
131	Metabolism of poplar salicinoids by the generalist herbivore Lymantria dispar (Lepidoptera). Insect Biochemistry and Molecular Biology, 2016, 78, 39-49.	1.2	25
132	Different alleles of a gene encoding leucoanthocyanidin reductase (PaLAR3) influence resistance against the fungus Heterobasidion parviporum in Picea abies. Plant Physiology, 2016, 171, pp.00685.2016.	2.3	34
133	Jasmonic Acid and Ethylene Signaling Pathways Regulate Glucosinolate Levels in Plants During Rhizobacteria-Induced Systemic Resistance Against a Leaf-Chewing Herbivore. Journal of Chemical Ecology, 2016, 42, 1212-1225.	0.9	118
134	Plant defense and herbivore counter-defense: benzoxazinoids and insect herbivores. Phytochemistry Reviews, 2016, 15, 1127-1151.	3.1	175
135	Volatile Organic Compounds Emitted by Fungal Associates of Conifer Bark Beetles and their Potential in Bark Beetle Control. Journal of Chemical Ecology, 2016, 42, 952-969.	0.9	61
136	CYP79D enzymes contribute to jasmonic acid-induced formation of aldoximes and other nitrogenous volatiles in two Erythroxylum species. BMC Plant Biology, 2016, 16, 215.	1.6	27
137	Biosynthesis of 8-O-methylated benzoxazinoid defense compounds in maize. Plant Cell, 2016, 28, tpc.00065.2016.	3.1	87
138	Microbes matter: herbivore gut endosymbionts play a role in breakdown of host plant toxins. Environmental Microbiology, 2016, 18, 1306-1307.	1.8	7
139	Elm defence against herbivores and pathogens: morphological, chemical and molecular regulation aspects. Phytochemistry Reviews, 2016, 15, 961-983.	3.1	27
140	Enemy-free space promotes maintenance of host races in an aphid species. Oecologia, 2016, 181, 659-672.	0.9	11
141	A below-ground herbivore shapes root defensive chemistry in natural plant populations. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160285.	1.2	26
142	A mode of action of glucosinolate-derived isothiocyanates: Detoxification depletes glutathione and cysteine levels with ramifications on protein metabolism in Spodoptera littoralis. Insect Biochemistry and Molecular Biology, 2016, 71, 37-48.	1.2	77
143	Glucosinolate Desulfation by the Phloem-Feeding Insect Bemisia tabaci. Journal of Chemical Ecology, 2016, 42, 230-235.	0.9	42
144	<i>Arabidopsis thaliana</i> isoprenyl diphosphate synthases produce the C₂₅ intermediate geranylfarnesyl diphosphate. Plant Journal, 2015, 84, 847-859.	2.8	46

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145	Belowground herbivore tolerance involves delayed overcompensatory root regrowth in maize. Entomologia Experimentalis Et Applicata, 2015, 157, 113-120.	0.7	15
146	Temperature affects insect outbreak risk through tritrophic interactions mediated by plant secondary compounds. Ecosphere, 2015, 6, 1-17.	1.0	15
147	One amino acid makes the difference: the formation of ent-kaurene and 16Î±-hydroxy-ent-kaurane by diterpene synthases in poplar. BMC Plant Biology, 2015, 15, 262.	1.6	30
148	Sustained exposure to abscisic acid enhances the colonization potential of the mutualist fungus <i>Piriformospora indica</i> on <i>Arabidopsis thaliana</i> roots. New Phytologist, 2015, 208, 873-886.	3.5	52
149	The diversion of 2â€<i>C</i>â€methylâ€<scp>d</scp>â€erythritolâ€2,4â€cyclodiphosphate from the 2â€<i>C</i>â€methylâ€<scp>d</scp>â€erythritol 4â€phosphate pathway to hemiterpene glycosides mediates stress responses in <i>Arabidopsis thaliana</i>. Plant Journal, 2015, 82, 122-137.	2.8	48
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