

# Jonathan Gershenzon

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3263243/publications.pdf>

Version: 2024-02-01

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	BIOLOGY AND BIOCHEMISTRY OF GLUCOSINOLATES. Annual Review of Plant Biology, 2006, 57, 303-333.	8.6	1,917
2	The function of terpene natural products in the natural world. Nature Chemical Biology, 2007, 3, 408-414.	3.9	1,564
3	Recruitment of entomopathogenic nematodes by insect-damaged maize roots. Nature, 2005, 434, 732-737.	13.7	1,099
4	Diversity and Distribution of Floral Scent. Botanical Review, The, 2006, 72, 1-120.	1.7	1,094
5	The formation and function of plant volatiles: perfumes for pollinator attraction and defense. Current Opinion in Plant Biology, 2002, 5, 237-243.	3.5	956
6	Monoterpene and sesquiterpene synthases and the origin of terpene skeletal diversity in plants. Phytochemistry, 2009, 70, 1621-1637.	1.4	891
7	Biochemistry of Plant Volatiles: Figure 1.. Plant Physiology, 2004, 135, 1893-1902.	2.3	873
8	Variation of glucosinolate accumulation among different organs and developmental stages of Arabidopsis thaliana. Phytochemistry, 2003, 62, 471-481.	1.4	814
9	Multiple stress factors and the emission of plant VOCs. Trends in Plant Science, 2010, 15, 176-184.	4.3	715
10	Genetic Control of Natural Variation in Arabidopsis Glucosinolate Accumulation. Plant Physiology, 2001, 126, 811-825.	2.3	607
11	A unified mechanism of action for volatile isoprenoids in plant abiotic stress. Nature Chemical Biology, 2009, 5, 283-291.	3.9	606
12	The products of a single maize sesquiterpene synthase form a volatile defense signal that attracts natural enemies of maize herbivores. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1129-1134.	3.3	491
13	Methyl Jasmonate Induces Traumatic Resin Ducts, Terpenoid Resin Biosynthesis, and Terpenoid Accumulation in Developing Xylem of Norway Spruce Stems. Plant Physiology, 2002, 129, 1003-1018.	2.3	462
14	Elucidation of Gene-to-Gene and Metabolite-to-Gene Networks in Arabidopsis by Integration of Metabolomics and Transcriptomics*. Journal of Biological Chemistry, 2005, 280, 25590-25595.	1.6	453
15	Metabolic costs of terpenoid accumulation in higher plants. Journal of Chemical Ecology, 1994, 20, 1281-1328.	0.9	450
16	Constitutive plant toxins and their role in defense against herbivores and pathogens. Current Opinion in Plant Biology, 2002, 5, 300-307.	3.5	450
17	Gene Duplication in the Diversification of Secondary Metabolism: Tandem 2-Oxoglutarate-Dependent Dioxygenases Control Glucosinolate Biosynthesis in Arabidopsis. Plant Cell, 2001, 13, 681-693.	3.1	447
18	From The Cover: The nonmevalonate pathway supports both monoterpene and sesquiterpene formation in snapdragon flowers. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 933-938.	3.3	447

#	ARTICLE	IF	CITATIONS
19	Successful herbivore attack due to metabolic diversion of a plant chemical defense. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4859-4864.	3.3	440
20	A Maize ( <i>Zea mays</i> )- $\beta$ -Caryophyllene Synthase Implicated in Indirect Defense Responses against Herbivores Is Not Expressed in Most American Maize Varieties. Plant Cell, 2008, 20, 482-494.	3.1	422
21	The major volatile organic compound emitted from <i>Arabidopsis thaliana</i> flowers, the sesquiterpene ( $\beta$ -caryophyllene, is a defense against a bacterial pathogen. New Phytologist, 2012, 193, 997-1008.	3.5	408
22	The specificity of herbivore-induced plant volatiles in attracting herbivore enemies. Trends in Plant Science, 2012, 17, 303-310.	4.3	402
23	The Arabidopsis Epithiospecifier Protein Promotes the Hydrolysis of Glucosinolates to Nitriles and Influences <i>Trichoplusia ni</i> Herbivory. Plant Cell, 2001, 13, 2793-2807.	3.1	400
24	Protective perfumes: the role of vegetative volatiles in plant defense against herbivores. Current Opinion in Plant Biology, 2009, 12, 479-485.	3.5	387
25	Biosynthesis and Emission of Terpenoid Volatiles from Arabidopsis Flowers. Plant Cell, 2003, 15, 481-494.	3.1	381
26	Induction of Volatile Terpene Biosynthesis and Diurnal Emission by Methyl Jasmonate in Foliage of Norway Spruce. Plant Physiology, 2003, 132, 1586-1599.	2.3	381
27	Two sesquiterpene synthases are responsible for the complex mixture of sesquiterpenes emitted from Arabidopsis flowers. Plant Journal, 2005, 42, 757-771.	2.8	314
28	Restoring a maize root signal that attracts insect-killing nematodes to control a major pest. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13213-13218.	3.3	298
29	Regulation of Monoterpene Accumulation in Leaves of Peppermint. Plant Physiology, 2000, 122, 205-214.	2.3	290
30	An Arabidopsis thaliana gene for methylsalicylate biosynthesis, identified by a biochemical genomics approach, has a role in defense. Plant Journal, 2003, 36, 577-588.	2.8	278
31	The secondary metabolism of Arabidopsis thaliana: growing like a weed. Current Opinion in Plant Biology, 2005, 8, 308-316.	3.5	268
32	The Effect of Sulfur Nutrition on Plant Glucosinolate Content: Physiology and Molecular Mechanisms. Plant Biology, 2007, 9, 573-581.	1.8	260
33	Nonuniform distribution of glucosinolates in <i>Arabidopsis thaliana</i> leaves has important consequences for plant defense. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6196-6201.	3.3	251
34	Natural Variation in Maize Aphid Resistance Is Associated with 2,4-Dihydroxy-7-Methoxy-1,4-Benzoxazin-3-One Glucoside Methyltransferase Activity. Plant Cell, 2013, 25, 2341-2355.	3.1	251
35	Phenolic glycosides of the Salicaceae and their role as anti-herbivore defenses. Phytochemistry, 2011, 72, 1497-1509.	1.4	250
36	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.	1.4	248

#	ARTICLE	IF	CITATIONS
37	Attracting friends to feast on foes: engineering terpene emission to make crop plants more attractive to herbivore enemies. <i>Current Opinion in Biotechnology</i> , 2003, 14, 169-176.	3.3	245
38	DOF transcription factor AtDof1.1 (OBP2) is part of a regulatory network controlling glucosinolate biosynthesis in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2006, 47, 10-24.	2.8	243
39	Herbivore induction of the glucosinolate-myrosinase defense system: major trends, biochemical bases and ecological significance. <i>Phytochemistry Reviews</i> , 2009, 8, 149-170.	3.1	240
40	bus, a Bushy <i>Arabidopsis</i> CYP79F1 Knockout Mutant with Abolished Synthesis of Short-Chain Aliphatic Glucosinolates. <i>Plant Cell</i> , 2001, 13, 351-367.	3.1	235
41	CML42-Mediated Calcium Signaling Coordinates Responses to <i>Spodoptera</i> Herbivory and Abiotic Stresses in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2012, 159, 1159-1175.	2.3	233
42	The Maize Gene terpene synthase 1 Encodes a Sesquiterpene Synthase Catalyzing the Formation of (E)- $\beta$ -Farnesene, (E)-Nerolidol, and (E,E)-Farnesol after Herbivore Damage. <i>Plant Physiology</i> , 2002, 130, 2049-2060.	2.3	226
43	Benzoic acid glucosinolate esters and other glucosinolates from <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2002, 59, 663-671.	1.4	226
44	Biochemical and Histochemical Localization of Monoterpene Biosynthesis in the Glandular Trichomes of Spearmint ( <i>Mentha spicata</i> ). <i>Plant Physiology</i> , 1989, 89, 1351-1357.	2.3	221
45	Positive selection driving diversification in plant secondary metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9118-9123.	3.3	220
46	Comparative Quantitative Trait Loci Mapping of Aliphatic, Indolic and Benzylic Glucosinolate Production in <i>Arabidopsis thaliana</i> Leaves and Seeds. <i>Genetics</i> , 2001, 159, 359-370.	1.2	217
47	Development of Peltate Glandular Trichomes of Peppermint. <i>Plant Physiology</i> , 2000, 124, 665-680.	2.3	214
48	Developmental Regulation of Monoterpene Biosynthesis in the Glandular Trichomes of Peppermint. <i>Plant Physiology</i> , 2000, 122, 215-224.	2.3	209
49	Characterization of a Root-Specific <i>Arabidopsis</i> Terpene Synthase Responsible for the Formation of the Volatile Monoterpene 1,8-Cineole. <i>Plant Physiology</i> , 2004, 135, 1956-1966.	2.3	207
50	The Variability of Sesquiterpenes Emitted from Two Zea mays Cultivars Is Controlled by Allelic Variation of Two Terpene Synthase Genes Encoding Stereoselective Multiple Product Enzymes. <i>Plant Cell</i> , 2004, 16, 1115-1131.	3.1	206
51	Characterization of a BAHD acyltransferase responsible for producing the green leaf volatile (Z)-3-hexen-1-yl acetate in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2007, 49, 194-207.	2.8	199
52	MAM3 Catalyzes the Formation of All Aliphatic Glucosinolate Chain Lengths in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2007, 144, 60-71.	2.3	194
53	Fungal Planet description sheets: 320-370. <i>Persoonia: Molecular Phylogeny and Evolution of Fungi</i> , 2015, 34, 167-266.	1.6	193
54	Limonene Synthase, the Enzyme Responsible for Monoterpene Biosynthesis in Peppermint, Is Localized to Leucoplasts of Oil Gland Secretory Cells. <i>Plant Physiology</i> , 1999, 120, 879-886.	2.3	186

#	ARTICLE	IF	CITATIONS
55	Disruption of Adenosine-5-Phosphosulfate Kinase in <i>Arabidopsis</i> Reduces Levels of Sulfated Secondary Metabolites. <i>Plant Cell</i> , 2009, 21, 910-927.	3.1	180
56	Isolation of secretory cells from plant glandular trichomes and their use in biosynthetic studies of monoterpenes and other gland products. <i>Analytical Biochemistry</i> , 1992, 200, 130-138.	1.1	177
57	BRANCHED-CHAIN AMINOTRANSFERASE4 Is Part of the Chain Elongation Pathway in the Biosynthesis of Methionine-Derived Glucosinolates in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2006, 18, 2664-2679.	3.1	177
58	Plant defense and herbivore counter-defense: benzoxazinoids and insect herbivores. <i>Phytochemistry Reviews</i> , 2016, 15, 1127-1151.	3.1	175
59	Alarm pheromone mediates production of winged dispersal morphs in aphids. <i>Ecology Letters</i> , 2005, 8, 596-603.	3.0	173
60	Formation of Monoterpenes in <i>Antirrhinum majus</i> and <i>Clarkia breweri</i> Flowers Involves Heterodimeric Geranyl Diphosphate Synthases. <i>Plant Cell</i> , 2004, 16, 977-992.	3.1	162
61	Roles of plant volatiles in defence against microbial pathogens and microbial exploitation of volatiles. <i>Plant, Cell and Environment</i> , 2019, 42, 2827-2843.	2.8	162
62	Distribution of Peltate Glandular Trichomes on Developing Leaves of Peppermint. <i>Plant Physiology</i> , 2000, 124, 655-664.	2.3	161
63	A Gain-of-Function Polymorphism Controlling Complex Traits and Fitness in Nature. <i>Science</i> , 2012, 337, 1081-1084.	6.0	158
64	Exogenous application of methyl jasmonate elicits defenses in Norway spruce ( <i>Picea abies</i> ) and reduces host colonization by the bark beetle <i>Ips typographus</i> . <i>Oecologia</i> , 2006, 148, 426-436.	0.9	157
65	Flavan-3-ols Are an Effective Chemical Defense against Rust Infection. <i>Plant Physiology</i> , 2017, 175, 1560-1578.	2.3	156
66	Deoxyxylulose 5-Phosphate Synthase Controls Flux through the Methylerythritol 4-Phosphate Pathway in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014, 165, 1488-1504.	2.3	154
67	Biosynthesis of the Monoterpenes Limonene and Carvone in the Fruit of Caraway <sup>1</sup> . <i>Plant Physiology</i> , 1998, 117, 901-912.	2.3	153
68	Morphology and monoterpene biosynthetic capabilities of secretory cell clusters isolated from glandular trichomes of peppermint ( <i>Mentha piperita</i> L.). <i>Planta</i> , 1992, 187, 445-54.	1.6	151
69	Methyl jasmonate treatment of mature Norway spruce ( <i>Picea abies</i> ) trees increases the accumulation of terpenoid resin components and protects against infection by <i>Ceratocystis polonica</i> , a bark beetle-associated fungus. <i>Tree Physiology</i> , 2006, 26, 977-988.	1.4	150
70	A Common Fungal Associate of the Spruce Bark Beetle Metabolizes the Stilbene Defenses of Norway Spruce. <i>Plant Physiology</i> , 2013, 162, 1324-1336.	2.3	150
71	Where will the wood come from? Plantation forests and the role of biotechnology. <i>Trends in Biotechnology</i> , 2002, 20, 291-296.	4.9	148
72	Subgroup 4 R2R3-MYBs in conifer trees: gene family expansion and contribution to the isoprenoid- and flavonoid-oriented responses. <i>Journal of Experimental Botany</i> , 2010, 61, 3847-3864.	2.4	146

#	ARTICLE	IF	CITATIONS
73	Genetic evidence for natural product-mediated plant-plant allelopathy in rice ( <i>Oryza sativa</i> ). <i>New Phytologist</i> , 2012, 193, 570-575.	3.5	146
74	The Effects of Arbuscular Mycorrhizal Fungi on Direct and Indirect Defense Metabolites of <i>Plantago lanceolata</i> L.. <i>Journal of Chemical Ecology</i> , 2009, 35, 833-843.	0.9	145
75	Tree defence and bark beetles in a drying world: carbon partitioning, functioning and modelling. <i>New Phytologist</i> , 2020, 225, 26-36.	3.5	144
76	Gut microbiota of the pine weevil degrades conifer diterpenes and increases insect fitness. <i>Molecular Ecology</i> , 2017, 26, 4099-4110.	2.0	143
77	Terpene synthases of oregano ( <i>Origanum vulgare</i> L.) and their roles in the pathway and regulation of terpene biosynthesis. <i>Plant Molecular Biology</i> , 2010, 73, 587-603.	2.0	141
78	Altered Glucosinolate Hydrolysis in Genetically Engineered <i>Arabidopsis thaliana</i> and its Influence on the Larval Development of <i>Spodoptera littoralis</i> . <i>Journal of Chemical Ecology</i> , 2006, 32, 2333-2349.	0.9	139
79	Terpenoid Secondary Metabolism in <i>Arabidopsis thaliana</i> : cDNA Cloning, Characterization, and Functional Expression of a Myrcene/(E)- $\beta$ -Ocimene Synthase. <i>Archives of Biochemistry and Biophysics</i> , 2000, 375, 261-269.	1.4	137
80	Artemisinin biosynthesis in growing plants of <i>Artemisia annua</i> . A 13CO <sub>2</sub> study. <i>Phytochemistry</i> , 2010, 71, 179-187.	1.4	137
81	Two MYB proteins are broad repressors of flavonoid and phenylpropanoid metabolism in poplar. <i>Plant Journal</i> , 2018, 96, 949-965.	2.8	137
82	Identification and Regulation of TPS04/GES, an <i>Arabidopsis</i> Geranylinalool Synthase Catalyzing the First Step in the Formation of the Insect-Induced Volatile C16-Homoterpene TMTT. <i>Plant Cell</i> , 2008, 20, 1152-1168.	3.1	136
83	Functional identification of AtTPS03 as (E)- $\beta$ -ocimene synthase: a monoterpene synthase catalyzing jasmonate- and wound-induced volatile formation in <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2003, 216, 745-751.	1.6	134
84	Chapter five Glucosinolate hydrolysis and its impact on generalist and specialist insect herbivores. <i>Recent Advances in Phytochemistry</i> , 2003, , 101-125.	0.5	131
85	A Novel 2-Oxoacid-Dependent Dioxygenase Involved in the Formation of the Goiterogenic 2-Hydroxybut-3-enyl Glucosinolate and Generalist Insect Resistance in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2008, 148, 2096-2108.	2.3	131
86	Variation of Herbivore-Induced Volatile Terpenes among <i>Arabidopsis</i> Ecotypes Depends on Allelic Differences and Subcellular Targeting of Two Terpene Synthases, TPS02 and TPS03. <i>Plant Physiology</i> , 2010, 153, 1293-1310.	2.3	131
87	Comparative biochemical characterization of nitrile-forming proteins from plants and insects that alter myrosinase-catalysed hydrolysis of glucosinolates. <i>FEBS Journal</i> , 2006, 273, 2432-2446.	2.2	129
88	Geographic and evolutionary diversification of glucosinolates among near relatives of <i>Arabidopsis thaliana</i> (Brassicaceae). <i>Phytochemistry</i> , 2005, 66, 1321-1333.	1.4	126
89	Functional identification and differential expression of 1-deoxy-d-xylulose 5-phosphate synthase in induced terpenoid resin formation of Norway spruce ( <i>Picea abies</i> ). <i>Plant Molecular Biology</i> , 2007, 65, 243-257.	2.0	126
90	The MAP kinase MpkA controls cell wall integrity, oxidative stress response, gliotoxin production and iron adaptation in <i>Aspergillus fumigatus</i> . <i>Molecular Microbiology</i> , 2011, 82, 39-53.	1.2	125

#	ARTICLE	IF	CITATIONS
91	Jasmonic Acid and Its Precursor 12-Oxophytodienoic Acid Control Different Aspects of Constitutive and Induced Herbivore Defenses in Tomato. <i>Plant Physiology</i> , 2014, 166, 396-410.	2.3	125
92	Metabolic Flux Analysis of Plastidic Isoprenoid Biosynthesis in Poplar Leaves Emitting and Nonemitting Isoprene Å. <i>Plant Physiology</i> , 2014, 165, 37-51.	2.3	124
93	The <i>Arabidopsis thaliana</i> Type I Isopentenyl Diphosphate Isomerases Are Targeted to Multiple Subcellular Compartments and Have Overlapping Functions in Isoprenoid Biosynthesis. <i>Plant Cell</i> , 2008, 20, 677-696.	3.1	122
94	The Plastidic Bile Acid Transporter 5 Is Required for the Biosynthesis of Methionine-Derived Glucosinolates in <i>Arabidopsis thaliana</i> Å. <i>Plant Cell</i> , 2009, 21, 1813-1829.	3.1	122
95	Poplar MYB115 and MYB134 Transcription Factors Regulate Proanthocyanidin Synthesis and Structure. <i>Plant Physiology</i> , 2017, 174, 154-171.	2.3	122
96	Inducibility of chemical defenses in Norway spruce bark is correlated with unsuccessful mass attacks by the spruce bark beetle. <i>Oecologia</i> , 2012, 170, 183-198.	0.9	120
97	Herbivore-induced volatile emission in black poplar: regulation and role in attracting herbivore enemies. <i>Plant, Cell and Environment</i> , 2014, 37, 1909-1923.	2.8	120
98	Demonstration and characterization of (E)-nerolidol synthase from maize: a herbivore-inducible terpene synthase participating in (3E)-4,8-dimethyl-1,3,7-nonatriene biosynthesis. <i>Planta</i> , 2000, 210, 815-822.	1.6	119
99	The sesquiterpene hydrocarbons of maize ( <i>Zea mays</i> ) form five groups with distinct developmental and organ-specific distributions. <i>Phytochemistry</i> , 2004, 65, 1895-1902.	1.4	119
100	Characterization and mechanism of (4S)-limonene synthase, A monoterpene cyclase from the glandular trichomes of peppermint ( <i>Mentha x piperita</i> ). <i>Archives of Biochemistry and Biophysics</i> , 1992, 296, 49-57.	1.4	118
101	Jasmonic Acid and Ethylene Signaling Pathways Regulate Glucosinolate Levels in Plants During Rhizobacteria-Induced Systemic Resistance Against a Leaf-Chewing Herbivore. <i>Journal of Chemical Ecology</i> , 2016, 42, 1212-1225.	0.9	118
102	<i>Phyllotreta striolata</i> flea beetles use host plant defense compounds to create their own glucosinolate-myrosinase system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7349-7354.	3.3	116
103	Formation of Simple Nitriles upon Glucosinolate Hydrolysis Affects Direct and Indirect Defense Against the Specialist Herbivore, <i>Pieris rapae</i> . <i>Journal of Chemical Ecology</i> , 2008, 34, 1311-1321.	0.9	115
104	<i>Arabidopsis</i> Branched-Chain Aminotransferase 3 Functions in Both Amino Acid and Glucosinolate Biosynthesis Å Å. <i>Plant Physiology</i> , 2008, 146, 1028-1039.	2.3	112
105	Biosynthesis of the Major Tetrahydroxystilbenes in Spruce, Astringin and Isorhapontin, Proceeds via Resveratrol and Is Enhanced by Fungal Infection Å Å. <i>Plant Physiology</i> , 2011, 157, 876-890.	2.3	112
106	Metabolism of glucosinolate-derived isothiocyanates to glutathione conjugates in generalist lepidopteran herbivores. <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 174-182.	1.2	112
107	Little peaks with big effects: establishing the role of minor plant volatiles in plant-insect interactions. <i>Plant, Cell and Environment</i> , 2014, 37, 1836-1844.	2.8	112
108	Expression profiling of metabolic genes in response to methyl jasmonate reveals regulation of genes of primary and secondary sulfur-related pathways in <i>Arabidopsis thaliana</i> . <i>Photosynthesis Research</i> , 2005, 86, 491-508.	1.6	111



#	ARTICLE	IF	CITATIONS
109	The biosynthesis of benzoic acid glucosinolate esters in <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2001, 57, 23-32.	1.4	110
110	Glucosinolate hydrolysis in <i>Lepidium sativum</i> —identification of the thiocyanate-forming protein. <i>Plant Molecular Biology</i> , 2006, 63, 49-61.	2.0	110
111	Biosynthesis of methionine-derived glucosinolates in <i>Arabidopsis thaliana</i> : recombinant expression and characterization of methylthioalkylmalate synthase, the condensing enzyme of the chain-elongation cycle. <i>Planta</i> , 2004, 218, 1026-1035.	1.6	109
112	Volatile chemicals from leaf litter are associated with invasiveness of a Neotropical weed in Asia. <i>Ecology</i> , 2011, 92, 316-324.	1.5	109
113	A gene controlling variation in <i>Arabidopsis</i> glucosinolate composition is part of the methionine chain elongation pathway. <i>Plant Physiology</i> , 2001, 127, 1077-88.	2.3	109
114	Herbivore-induced poplar cytochrome P450 enzymes of the CYP71 family convert aldoximes to nitriles which repel a generalist caterpillar. <i>Plant Journal</i> , 2014, 80, 1095-1107.	2.8	105
115	Characterization of Biosynthetic Pathways for the Production of the Volatile Homoterpenes DMNT and TMTT in <i>Zea mays</i> . <i>Plant Cell</i> , 2016, 28, 2651-2665.	3.1	105
116	Two Herbivore-Induced Cytochrome P450 Enzymes CYP79D6 and CYP79D7 Catalyze the Formation of Volatile Aldoximes Involved in Poplar Defense. <i>Plant Cell</i> , 2013, 25, 4737-4754.	3.1	104
117	Gene Coexpression Analysis Reveals Complex Metabolism of the Monoterpene Alcohol Linalool in <i>Arabidopsis</i> Flowers. <i>Plant Cell</i> , 2013, 25, 4640-4657.	3.1	104
118	Induced Jasmonate Signaling Leads to Contrasting Effects on Root Damage and Herbivore Performance. <i>Plant Physiology</i> , 2015, 167, 1100-1116.	2.3	104
119	Defensive weapons and defense signals in plants: Some metabolites serve both roles. <i>BioEssays</i> , 2015, 37, 167-174.	1.2	104
120	Secondary metabolites and the higher classification of angiosperms. <i>Nordic Journal of Botany</i> , 1983, 3, 5-34.	0.2	103
121	Nonseed plant <i>Selaginella moellendorffii</i> has both seed plant and microbial types of terpene synthases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14711-14715.	3.3	103
122	Salicylic acid activates poplar defense against the biotrophic rust fungus <i>Melampsora larici-populina</i> via increased biosynthesis of catechin and proanthocyanidins. <i>New Phytologist</i> , 2019, 221, 960-975.	3.5	103
123	Glandular Trichomes of <i>Leucosceptrum canum</i> Harbor Defensive Sesterterpenoids. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4471-4475.	7.2	102
124	Covariation and phenotypic integration in chemical communication displays: biosynthetic constraints and eco-evolutionary implications. <i>New Phytologist</i> , 2018, 220, 739-749.	3.5	101
125	The Methionine Chain Elongation Pathway in the Biosynthesis of Glucosinolates in <i>Eruca sativa</i> (Brassicaceae). <i>Archives of Biochemistry and Biophysics</i> , 2000, 378, 411-419.	1.4	100
126	Evolution in an Ancient Detoxification Pathway Is Coupled with a Transition to Herbivory in the Drosophilidae. <i>Molecular Biology and Evolution</i> , 2014, 31, 2441-2456.	3.5	100



#	ARTICLE	IF	CITATIONS
127	Plant iron acquisition strategy exploited by an insect herbivore. <i>Science</i> , 2018, 361, 694-697.	6.0	98
128	The role of glucosinolates and the jasmonic acid pathway in resistance of <i>Arabidopsis thaliana</i> against molluscan herbivores. <i>Molecular Ecology</i> , 2014, 23, 1188-1203.	2.0	95
129	The three desulfoglucosinolate sulfotransferase proteins in <i>Arabidopsis</i> have different substrate specificities and are differentially expressed. <i>FEBS Journal</i> , 2006, 273, 122-136.	2.2	94
130	A Bifunctional Geranyl and Geranylgeranyl Diphosphate Synthase Is Involved in Terpene Oleoresin Formation in <i>Picea abies</i> . <i>Plant Physiology</i> , 2010, 152, 639-655.	2.3	94
131	How Glucosinolates Affect Generalist Lepidopteran Larvae: Growth, Development and Glucosinolate Metabolism. <i>Frontiers in Plant Science</i> , 2017, 8, 1995.	1.7	93
132	Plant tropane alkaloid biosynthesis evolved independently in the Solanaceae and Erythroxylaceae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10304-10309.	3.3	92
133	Terpene synthase genes in eukaryotes beyond plants and fungi: Occurrence in social amoebae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12132-12137.	3.3	92
134	A light-dependent molecular link between competition cues and defence responses in plants. <i>Nature Plants</i> , 2020, 6, 223-230.	4.7	92
135	Emission of Volatile Organic Compounds After Herbivory from <i>Trifolium pratense</i> (L.) Under Laboratory and Field Conditions. <i>Journal of Chemical Ecology</i> , 2009, 35, 1335-1348.	0.9	91
136	Characterization of seed-specific benzoyloxyglucosinolate mutations in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2007, 51, 1062-1076.	2.8	90
137	ESP and ESM1 mediate indol-3-acetonitrile production from indol-3-ylmethyl glucosinolate in <i>Arabidopsis</i> . <i>Phytochemistry</i> , 2008, 69, 663-671.	1.4	90
138	From Amino Acid to Glucosinolate Biosynthesis: Protein Sequence Changes in the Evolution of Methylthioalkylmalate Synthase in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 38-53.	3.1	90
139	Chemical convergence between plants and insects: biosynthetic origins and functions of common secondary metabolites. <i>New Phytologist</i> , 2019, 223, 52-67.	3.5	90
140	Protonation of a Neutral (S)- $\beta$ -Bisabolene Intermediate Is Involved in (S)- $\beta$ -Macrocarpene Formation by the Maize Sesquiterpene Synthases TPS6 and TPS11. <i>Journal of Biological Chemistry</i> , 2008, 283, 20779-20788.	1.6	89
141	Fungal associates of the tree-killing bark beetle, <i>Ips typographus</i> , vary in virulence, ability to degrade conifer phenolics and influence bark beetle tunneling behavior. <i>Fungal Ecology</i> , 2019, 38, 71-79.	0.7	89
142	Two <i>Arabidopsis</i> Genes (IPMS1 and IPMS2) Encode Isopropylmalate Synthase, the Branchpoint Step in the Biosynthesis of Leucine. <i>Plant Physiology</i> , 2007, 143, 970-986.	2.3	88
143	Eyes on the future – evidence for trade-offs between growth, storage and defense in Norway spruce. <i>New Phytologist</i> , 2019, 222, 144-158.	3.5	88
144	Reglucosylation of the Benzoxazinoid DIMBOA with Inversion of Stereochemical Configuration is a Detoxification Strategy in Lepidopteran Herbivores. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11320-11324.	7.2	87

#	ARTICLE	IF	CITATIONS
145	Biosynthesis of 8-O-methylated benzoxazinoid defense compounds in maize. <i>Plant Cell</i> , 2016, 28, tpc.00065.2016.	3.1	87
146	Terpene synthases and their contribution to herbivore-induced volatile emission in western balsam poplar ( <i>Populus trichocarpa</i> ). <i>BMC Plant Biology</i> , 2014, 14, 270.	1.6	86
147	Increased Terpenoid Accumulation in Cotton ( <i>Gossypium hirsutum</i> ) Foliage is a General Wound Response. <i>Journal of Chemical Ecology</i> , 2008, 34, 508-522.	0.9	83
148	The first step in the biosynthesis of cocaine in <i>Erythroxylum coca</i> : the characterization of arginine and ornithine decarboxylases. <i>Plant Molecular Biology</i> , 2012, 78, 599-615.	2.0	82
149	Both methylerythritol phosphate and mevalonate pathways contribute to biosynthesis of each of the major isoprenoid classes in young cotton seedlings. <i>Phytochemistry</i> , 2014, 98, 110-119.	1.4	82
150	Lack of rapid monoterpene turnover in rooted plants: implications for theories of plant chemical defense. <i>Oecologia</i> , 1991, 87, 373-376.	0.9	80
151	Molecular and biochemical evolution of maize terpene synthase 10, an enzyme of indirect defense. <i>Phytochemistry</i> , 2009, 70, 1139-1145.	1.4	80
152	Herbivore-Induced SABATH Methyltransferases of Maize That Methylate Anthranilic Acid Using <i>S</i> -Adenosyl-Methionine. <i>Plant Physiology</i> , 2010, 153, 1795-1807.	2.3	80
153	Volatile organic compounds influence the interaction of the Eurasian spruce bark beetle ( <i>Ips</i> ) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	4.4	78
154	Cloning and characterization of two different types of geranyl diphosphate synthases from Norway spruce ( <i>Picea abies</i> ). <i>Phytochemistry</i> , 2008, 69, 49-57.	1.4	77
155	Four terpene synthases produce major compounds of the gypsy moth feeding-induced volatile blend of <i>Populus trichocarpa</i> . <i>Phytochemistry</i> , 2011, 72, 897-908.	1.4	77
156	3- <sup>12</sup> -d-Glucopyranosyl-6-methoxy-2-benzoxazolinone (MBOA-N-Glc) is an insect detoxification product of maize 1,4-benzoxazin-3-ones. <i>Phytochemistry</i> , 2014, 102, 97-105.	1.4	77
157	A mode of action of glucosinolate-derived isothiocyanates: Detoxification depletes glutathione and cysteine levels with ramifications on protein metabolism in <i>Spodoptera littoralis</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2016, 71, 37-48.	1.2	77
158	Catechol dioxygenases catalyzing the first step in Norway spruce phenolic degradation are key virulence factors in the bark beetle-vectored fungus <i>Endoconidiophora polonica</i> . <i>Plant Physiology</i> , 2016, 171, pp.01916.2015.	2.3	75
159	The gut microbiota of the pine weevil is similar across Europe and resembles that of other conifer-feeding beetles. <i>Molecular Ecology</i> , 2016, 25, 4014-4031.	2.0	75
160	Plant volatile emission depends on the species composition of the neighboring plant community. <i>BMC Plant Biology</i> , 2019, 19, 58.	1.6	75
161	<i>Arabidopsis thaliana</i> encodes a bacterial-type heterodimeric isopropylmalate isomerase involved in both Leu biosynthesis and the Met chain elongation pathway of glucosinolate formation. <i>Plant Molecular Biology</i> , 2009, 71, 227-239.	2.0	73
162	Floral Odor Bouquet Loses its Ant Repellent Properties After Inhibition of Terpene Biosynthesis. <i>Journal of Chemical Ecology</i> , 2011, 37, 1323-1331.	0.9	73

#	ARTICLE	IF	CITATIONS
163	Insect Attraction versus Plant Defense: Young Leaves High in Glucosinolates Stimulate Oviposition by a Specialist Herbivore despite Poor Larval Survival due to High Saponin Content. PLoS ONE, 2014, 9, e95766.	1.1	72
164	Flavan-3-ols in Norway Spruce: Biosynthesis, Accumulation, and Function in Response to Attack by the Bark Beetle-Associated Fungus <i>Ceratocystis polonica</i> . Plant Physiology, 2014, 164, 2107-2122.	2.3	72
165	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
166	Metabolic detoxification of capsaicin by UDP-glucosyltransferase in three <i>Helicoverpa</i> species. Archives of Insect Biochemistry and Physiology, 2011, 78, 104-118.	0.6	71
167	A Latex Metabolite Benefits Plant Fitness under Root Herbivore Attack. PLoS Biology, 2016, 14, e1002332.	2.6	71
168	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
169	<i>Verticillium dahliae</i> - <i>Arabidopsis</i> Interaction Causes Changes in Gene Expression Profiles and Jasmonate Levels on Different Time Scales. Frontiers in Microbiology, 2018, 9, 217.	1.5	70
170	The Desert Locust, <i>Schistocerca gregaria</i> , Detoxifies the Glucosinolates of <i>Schouwia purpurea</i> by Desulfation. Journal of Chemical Ecology, 2007, 33, 1542-1555.	0.9	68
171	Quantification of plant surface metabolites by matrix-assisted laser desorption/ionization mass spectrometry imaging: glucosinolates on <i>Arabidopsis thaliana</i> leaves. Plant Journal, 2015, 81, 961-972.	2.8	68
172	Sequestration and activation of plant toxins protect the western corn rootworm from enemies at multiple trophic levels. ELife, 2017, 6, .	2.8	68
173	Biochemistry of Terpenoids: Monoterpenes, Sesquiterpenes and Diterpenes. , 0, , 258-303.		67
174	Terpenes of Wild Sunflowers ( <i>Helianthus</i> ): An Effective Mechanism Against Seed Predation by Larvae of the Sunflower Moth, <i>Homoeosoma electellum</i> (Lepidoptera: Pyralidae). Environmental Entomology, 1987, 16, 586-592.	0.7	66
175	The organ-specific expression of terpene synthase genes contributes to the terpene hydrocarbon composition of chamomile essential oils. BMC Plant Biology, 2012, 12, 84.	1.6	66
176	Four genes encoding MYB28, a major transcriptional regulator of the aliphatic glucosinolate pathway, are differentially expressed in the allopolyploid <i>Brassica juncea</i> . Journal of Experimental Botany, 2013, 64, 4907-4921.	2.4	65
177	Identification, quantification, spatiotemporal distribution and genetic variation of major latex secondary metabolites in the common dandelion ( <i>Taraxacum officinale</i> agg.). Phytochemistry, 2015, 115, 89-98.	1.4	65
178	Insect Detoxification of Glucosinolates and Their Hydrolysis Products. Advances in Botanical Research, 2016, 80, 199-245.	0.5	65
179	Low genetic variation is associated with low mutation rate in the giant duckweed. Nature Communications, 2019, 10, 1243.	5.8	65
180	The phytopathogenic fungus <i>Sclerotinia sclerotiorum</i> detoxifies plant glucosinolate hydrolysis products via an isothiocyanate hydrolase. Nature Communications, 2020, 11, 3090.	5.8	65

#	ARTICLE	IF	CITATIONS
181	PLEIOTROPIC REGULATORY LOCUS 1 (PRL1) Integrates the Regulation of Sugar Responses with Isoprenoid Metabolism in Arabidopsis. <i>Molecular Plant</i> , 2010, 3, 101-112.	3.9	64
182	Induction of isoprenyl diphosphate synthases, plant hormones and defense signalling genes correlates with traumatic resin duct formation in Norway spruce ( <i>Picea abies</i> ). <i>Plant Molecular Biology</i> , 2011, 77, 577-590.	2.0	64
183	Does egg deposition by herbivorous pine sawflies affect transcription of sesquiterpene synthases in pine?. <i>Planta</i> , 2008, 228, 427-438.	1.6	62
184	Metal ions control product specificity of isoprenyl diphosphate synthases in the insect terpenoid pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4194-4199.	3.3	62
185	Attractiveness of Constitutive and Herbivore-Induced Sesquiterpene Blends of Maize to the Parasitic Wasp <i>Cotesia marginiventris</i> (Cresson). <i>Journal of Chemical Ecology</i> , 2011, 37, 582-591.	0.9	61
186	Volatile Organic Compounds Emitted by Fungal Associates of Conifer Bark Beetles and their Potential in Bark Beetle Control. <i>Journal of Chemical Ecology</i> , 2016, 42, 952-969.	0.9	61
187	Behavioral and growth responses of specialist herbivore, <i>Homoeosoma electellum</i> , to major terpenoid of its host, <i>Helianthus</i> SPP. <i>Journal of Chemical Ecology</i> , 1986, 12, 1505-1521.	0.9	60
188	Microchemical analysis of laser-microdissected stone cells of Norway spruce by cryogenic nuclear magnetic resonance spectroscopy. <i>Planta</i> , 2007, 225, 771-779.	1.6	60
189	Induced carbon reallocation and compensatory growth as root herbivore tolerance mechanisms. <i>Plant, Cell and Environment</i> , 2014, 37, 2613-2622.	2.8	60
190	To Feed or Not to Feed: Plant Factors Located in the Epidermis, Mesophyll, and Sieve Elements Influence Pea Aphid's Ability to Feed on Legume Species. <i>PLoS ONE</i> , 2013, 8, e75298.	1.1	60
191	Cell- and tissue-specific localization and regulation of the epithiospecifier protein in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 2007, 64, 173-185.	2.0	59
192	Peroxisomal ATP-Binding Cassette Transporter COMATOSE and the Multifunctional Protein ABNORMAL INFLORESCENCE MERISTEM Are Required for the Production of Benzoylated Metabolites in <i>Arabidopsis</i> Seeds. <i>Plant Physiology</i> , 2014, 164, 48-54.	2.3	59
193	Improving Phenolic Total Content and Monoterpene in <i>Mentha x piperita</i> by Using Salicylic Acid or Methyl Jasmonate Combined with Rhizobacteria Inoculation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 50.	1.8	59
194	Mechanized techniques for the selective extraction of enzymes from plant epidermal glands. <i>Analytical Biochemistry</i> , 1987, 163, 159-164.	1.1	58
195	Can insect egg deposition warn a plant of future feeding damage by herbivorous larvae?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 101-108.	1.2	58
196	Convergent evolution of a metabolic switch between aphid and caterpillar resistance in cereals. <i>Science Advances</i> , 2018, 4, eaat6797.	4.7	58
197	Plant volatiles carry both public and private messages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5257-5258.	3.3	55
198	Expression profiling of various genes during the fruit development and ripening of mango. <i>Plant Physiology and Biochemistry</i> , 2010, 48, 426-433.	2.8	55

#	ARTICLE	IF	CITATIONS
199	How plants give early herbivore alert: Volatile terpenoids attract parasitoids to egg-infested elms. <i>Basic and Applied Ecology</i> , 2011, 12, 403-412.	1.2	55
200	Egg Laying of Cabbage White Butterfly ( <i>Pieris brassicae</i> ) on <i>Arabidopsis thaliana</i> Affects Subsequent Performance of the Larvae. <i>PLoS ONE</i> , 2013, 8, e59661.	1.1	55
201	Inferring Roles in Defense from Metabolic Allocation of Rice Diterpenoids. <i>Plant Cell</i> , 2018, 30, 1119-1131.	3.1	55
202	Identification and characterization of the BAHD acyltransferase malonyl CoA: Anthocyanidin 5-O-glucoside-6-O-malonyltransferase ( <i>At5MAT</i> ) in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2007, 581, 872-878.	1.3	54
203	Induction of essential oil production in <i>Mentha x piperita</i> by plant growth promoting bacteria was correlated with an increase in jasmonate and salicylate levels and a higher density of glandular trichomes. <i>Plant Physiology and Biochemistry</i> , 2019, 141, 142-153.	2.8	54
204	Flavanone-3-Hydroxylase Plays an Important Role in the Biosynthesis of Spruce Phenolic Defenses Against Bark Beetles and Their Fungal Associates. <i>Frontiers in Plant Science</i> , 2019, 10, 208.	1.7	54
205	Partial Purification and Characterization of the Short-Chain Prenyltransferases, Geranyl Diphosphate Synthase and Farnesyl Diphosphate Synthase, from <i>Abies grandis</i> (Grand Fir). <i>Archives of Biochemistry and Biophysics</i> , 2001, 386, 233-242.	1.4	53
206	Peltate Glandular Trichomes of <i>Colquhounia coccinea</i> var. <i>mollis</i> Harbor a New Class of Defensive Sesterterpenoids. <i>Organic Letters</i> , 2013, 15, 1694-1697.	2.4	53
207	Changes in volatile composition during fruit development and ripening of 'Alphonso' mango. <i>Journal of the Science of Food and Agriculture</i> , 2009, 89, 2071-2081.	1.7	52
208	Sustained exposure to abscisic acid enhances the colonization potential of the mutualist fungus <i>Piriformospora indica</i> on <i>Arabidopsis thaliana</i> roots. <i>New Phytologist</i> , 2015, 208, 873-886.	3.5	52
209	Leaf rust infection reduces herbivore-induced volatile emission in black poplar and attracts a generalist herbivore. <i>New Phytologist</i> , 2018, 220, 760-772.	3.5	52
210	Two pockets in the active site of maize sesquiterpene synthase TPS4 carry out sequential parts of the reaction scheme resulting in multiple products. <i>Archives of Biochemistry and Biophysics</i> , 2006, 448, 83-92.	1.4	51
211	Phylloplane location of glucosinolates in <i>Barbarea</i> spp. (Brassicaceae) and misleading assessment of host suitability by a specialist herbivore. <i>New Phytologist</i> , 2011, 189, 549-556.	3.5	51
212	The Last Step in Cocaine Biosynthesis Is Catalyzed by a BAHD Acyltransferase. <i>Plant Physiology</i> , 2015, 167, 89-101.	2.3	51
213	Sesquiterpene lactones from a Texas population of <i>Helianthus maximiliani</i> . <i>Phytochemistry</i> , 1984, 23, 1959-1966.	1.4	50
214	Mixtures of plant secondary metabolites. , 2012, , 56-77.		50
215	Specific Polyphenols and Tannins are Associated with Defense Against Insect Herbivores in the Tropical Oak <i>Quercus oleoides</i> . <i>Journal of Chemical Ecology</i> , 2014, 40, 458-467.	0.9	50
216	Intraspecific chemical diversity among neighbouring plants correlates positively with plant size and herbivore load but negatively with herbivore damage. <i>Ecology Letters</i> , 2017, 20, 87-97.	3.0	50

#	ARTICLE	IF	CITATIONS
217	Untargeted Metabolomics Approach Reveals Differences in Host Plant Chemistry Before and After Infestation With Different Pea Aphid Host Races. <i>Frontiers in Plant Science</i> , 2019, 10, 188.	1.7	50
218	The effect of moisture stress on monoterpenoid yield and composition in <i>Satureja douglasii</i> . <i>Biochemical Systematics and Ecology</i> , 1978, 6, 33-43.	0.6	49
219	Localization of Phenolics in Phloem Parenchyma Cells of Norway Spruce ( <i>Picea abies</i> ). <i>ChemBioChem</i> , 2012, 13, 2707-2713.	1.3	49
220	The maize cytochrome P450 CYP79A61 produces phenylacetaldoxime and indole-3-acetaldoxime in heterologous systems and might contribute to plant defense and auxin formation. <i>BMC Plant Biology</i> , 2015, 15, 128.	1.6	49
221	Plant Community Diversity Influences Allocation to Direct Chemical Defence in <i>Plantago lanceolata</i> . <i>PLoS ONE</i> , 2011, 6, e28055.	1.1	49
222	The diversion of 2-methylerythritol 2,4-cyclodiphosphate from the 2-methylerythritol 4-phosphate pathway to hemiterpene glycosides mediates stress responses in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2015, 82, 122-137.	2.8	48
223	A Geranylgeranyl Diphosphate Synthase Provides the Precursor for Sesterterpenoid (C <sub>25</sub> ) Formation in the Glandular Trichomes of the Mint Species <i>Leucosceptrum canum</i> . <i>Plant Cell</i> , 2016, 28, 804-822.	3.1	48
224	MTPSLs: New Terpene Synthases in Nonseed Plants. <i>Trends in Plant Science</i> , 2018, 23, 121-128.	4.3	48
225	Origin and early evolution of the plant terpene synthase family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2100361119.	3.3	48
226	Sesquiterpene lactones and diterpenoids from <i>Helianthus argophyllus</i> . <i>Phytochemistry</i> , 1982, 21, 709-713.	1.4	47
227	Optimization of Engineered Production of the Glucoraphanin Precursor Dihomomethionine in <i>Nicotiana benthamiana</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 14.	2.0	47
228	Strigolactones enhance root-knot nematode ( <i>Meloidogyne graminicola</i> ) infection in rice by antagonizing the jasmonate pathway. <i>New Phytologist</i> , 2019, 224, 454-465.	3.5	47
229	Glucosinolate biosynthesis: demonstration and characterization of the condensing enzyme of the chain elongation cycle in <i>Eruca sativa</i> . <i>Phytochemistry</i> , 2004, 65, 1073-1084.	1.4	46
230	Plant volatiles: a lack of function or a lack of knowledge?. <i>Trends in Plant Science</i> , 2006, 11, 421-421.	4.3	46
231	Constitutive emission of the aphid alarm pheromone, (E)- $\beta$ -farnesene, from plants does not serve as a direct defense against aphids. <i>BMC Ecology</i> , 2010, 10, 23.	3.0	46
232	<i>Arabidopsis thaliana</i> isoprenyl diphosphate synthases produce the C <sub>25</sub> intermediate geranylgeranyl diphosphate. <i>Plant Journal</i> , 2015, 84, 847-859.	2.8	46
233	Evidence for an essential histidine residue in 4S-limonene synthase and other terpene cyclases. <i>Archives of Biochemistry and Biophysics</i> , 1992, 299, 77-82.	1.4	45
234	Overexpression of an Isoprenyl Diphosphate Synthase in Spruce Leads to Unexpected Terpene Diversion Products That Function in Plant Defense. <i>Plant Physiology</i> , 2014, 164, 555-569.	2.3	45



#	ARTICLE	IF	CITATIONS
235	Storage of carbon reserves in spruce trees is prioritized over growth in the face of carbon limitation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	45
236	A physiological and behavioral mechanism for leaf-herbivore induced systemic root resistance. <i>Plant Physiology</i> , 2015, 169, pp.00759.2015.	2.3	44
237	The Sesquiterpenes (E)- $\alpha$ -Farnesene and (E)- $\beta$ -Bergamotene Quench Ozone but Fail to Protect the Wild Tobacco <i>Nicotiana attenuata</i> from Ozone, UVB, and Drought Stresses. <i>PLoS ONE</i> , 2015, 10, e0127296.	1.1	44
238	Chromatin mapping identifies BasR, a key regulator of bacteria-triggered production of fungal secondary metabolites. <i>ELife</i> , 2018, 7, .	2.8	44
239	The biosynthesis of thymol, carvacrol, and thymohydroquinone in Lamiaceae proceeds via cytochrome P450s and a short-chain dehydrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	44
240	11,13-Dehydrodesacetylmatricarin and other sesquiterpene lactones from <i>Artemisia ludoviciana</i> var. <i>Ludoviciana</i> and the identity of artecanin and chrysartemin B. <i>Phytochemistry</i> , 1980, 19, 103-106.	1.4	43
241	Absence of rapid terpene turnover in several diverse species of terpene-accumulating plants. <i>Oecologia</i> , 1993, 96, 583-592.	0.9	43
242	A novel sex-specific and inducible monoterpene synthase activity associated with a pine bark beetle, the pine engraver, <i>Ips pini</i> . <i>Die Naturwissenschaften</i> , 2003, 90, 173-179.	0.6	43
243	Cloning and characterization of isoprenyl diphosphate synthases with farnesyl diphosphate and geranylgeranyl diphosphate synthase activity from Norway spruce ( <i>Picea abies</i> ) and their relation to induced oleoresin formation. <i>Phytochemistry</i> , 2007, 68, 2649-2659.	1.4	43
244	Floral and insect-induced volatile formation in <i>Arabidopsis lyrata</i> ssp. <i>petraea</i> , a perennial, outcrossing relative of <i>A. thaliana</i> . <i>Planta</i> , 2009, 230, 1-11.	1.6	43
245	Localization of sesquiterpene formation and emission in maize leaves after herbivore damage. <i>BMC Plant Biology</i> , 2013, 13, 15.	1.6	43
246	Learning from nature: new approaches to the metabolic engineering of plant defense pathways. <i>Current Opinion in Biotechnology</i> , 2013, 24, 320-328.	3.3	43
247	Real-Time Analysis of Alarm Pheromone Emission by the Pea Aphid ( <i>Acyrtosiphon Pisum</i> ) Under Predation. <i>Journal of Chemical Ecology</i> , 2008, 34, 76-81.	0.9	42
248	Diastereomeric stilbene glucoside dimers from the bark of Norway spruce ( <i>Picea abies</i> ). <i>Phytochemistry</i> , 2008, 69, 772-782.	1.4	42
249	Plants Suppress Their Emission of Volatiles When Growing with Conspecifics. <i>Journal of Chemical Ecology</i> , 2013, 39, 537-545.	0.9	42
250	The timing of herbivore-induced volatile emission in black poplar ( <i>Populus nigra</i> ) and the influence of herbivore age and identity affect the value of individual volatiles as cues for herbivore enemies. <i>BMC Plant Biology</i> , 2014, 14, 304.	1.6	42
251	An <i>Arabidopsis</i> mutant impaired in intracellular calcium elevation is sensitive to biotic and abiotic stress. <i>BMC Plant Biology</i> , 2014, 14, 162.	1.6	42
252	Feeding Experience Affects the Behavioral Response of Polyphagous Gypsy Moth Caterpillars to Herbivore-induced Poplar Volatiles. <i>Journal of Chemical Ecology</i> , 2016, 42, 382-393.	0.9	42



#	ARTICLE	IF	CITATIONS
253	Glucosinolate Desulfation by the Phloem-Feeding Insect <i>Bemisia tabaci</i> . <i>Journal of Chemical Ecology</i> , 2016, 42, 230-235.	0.9	42
254	<i>Sclerotinia sclerotiorum</i> Circumvents Flavonoid Defenses by Catabolizing Flavonol Glycosides and Aglycones. <i>Plant Physiology</i> , 2019, 180, 1975-1987.	2.3	42
255	Cytochrome P-450 dependent (+)-limonene-6-hydroxylation in fruits of caraway ( <i>Carum carvi</i> ) Part 2 in the series 'Biosynthesis of limonene and carvone in fruits of caraway ( <i>Carum carvi</i> L.)' (Bouwmeester.) <i>Tj ETQq1 1 0.784314 rgt /Ove</i>	1.4	40
256	Interaction of glucosinolate content of <i>Arabidopsis thaliana</i> mutant lines and feeding and oviposition by generalist and specialist lepidopterans. <i>Phytochemistry</i> , 2013, 86, 36-43.	1.4	40
257	Terpene Biosynthesis in Red Algae Is Catalyzed by Microbial Type But Not Typical Plant Terpene Synthases. <i>Plant Physiology</i> , 2019, 179, 382-390.	2.3	40
258	Sesquiterpene lactone and diterpene constituents of <i>Helianthus annuus</i> . <i>Phytochemistry</i> , 1985, 24, 1537-1539.	1.4	39
259	Gene expression of 5-epi-aristolochene synthase and formation of capsidiol in roots of <i>Nicotiana attenuata</i> and <i>N. sylvestris</i> . <i>Phytochemistry</i> , 2002, 60, 109-116.	1.4	39
260	Transgenic upregulation of the condensed tannin pathway in poplar leads to a dramatic shift in leaf palatability for two tree-feeding Lepidoptera. <i>Journal of Chemical Ecology</i> , 2014, 40, 150-158.	0.9	39
261	An optimal defense strategy for phenolic glycoside production in <i>Populus trichocarpa</i> – isotope labeling demonstrates secondary metabolite production in growing leaves. <i>New Phytologist</i> , 2014, 203, 607-619.	3.5	39
262	Evaluation of Candidate Reference Genes for Real-Time Quantitative PCR of Plant Samples Using Purified cDNA as Template. <i>Plant Molecular Biology Reporter</i> , 2009, 27, 407-416.	1.0	38
263	Using plant chemistry and insect preference to study the potential of <i>Barbarea</i> (Brassicaceae) as a dead-end trap crop for diamondback moth (Lepidoptera: Plutellidae). <i>Phytochemistry</i> , 2014, 98, 137-144.	1.4	38
264	Molecular Basis of the Evolution of Methylthioalkylmalate Synthase and the Diversity of Methionine-Derived Glucosinolates. <i>Plant Cell</i> , 2019, 31, 1633-1647.	3.1	37
265	A Gene Controlling Variation in <i>Arabidopsis</i> Glucosinolate Composition Is Part of the Methionine Chain Elongation Pathway. , 0, .		36
266	Biochemical, Molecular Genetic and Evolutionary Aspects of Defense-Related Terpenoid Metabolism in Conifers. <i>Recent Advances in Phytochemistry</i> , 2000, 34, 109-150.	0.5	35
267	Iridoid biosynthesis in <i>Chrysomelina</i> larvae: Fat body produces early terpenoid precursors. <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 255-265.	1.2	35
268	Tritrophic metabolism of plant chemical defenses and its effects on herbivore and predator performance. <i>ELife</i> , 2019, 8, .	2.8	35
269	Differential induction of plant chemical defenses by parasitized and unparasitized herbivores: consequences for reciprocal, multitrophic interactions. <i>Oikos</i> , 2016, 125, 1398-1407.	1.2	34
270	Different alleles of a gene encoding leucoanthocyanidin reductase (PaLAR3) influence resistance against the fungus <i>Heterobasidion parviporum</i> in <i>Picea abies</i> . <i>Plant Physiology</i> , 2016, 171, pp.00685.2016.	2.3	34

#	ARTICLE	IF	CITATIONS
271	Diterpene carboxylic acids and a heliangolide from <i>Helianthus angustifolius</i> . <i>Phytochemistry</i> , 1981, 20, 2393-2396.	1.4	33
272	Antifungal activities of sunflower terpenoids. <i>Biochemical Systematics and Ecology</i> , 1990, 18, 325-328.	0.6	33
273	Do Aphid Colonies Amplify their Emission of Alarm Pheromone?. <i>Journal of Chemical Ecology</i> , 2008, 34, 1149-1152.	0.9	33
274	Non-Photochemical Quenching Capacity in <i>Arabidopsis thaliana</i> Affects Herbivore Behaviour. <i>PLoS ONE</i> , 2013, 8, e53232.	1.1	33
275	Positive Darwinian selection is a driving force for the diversification of terpenoid biosynthesis in the genus <i>Oryza</i> . <i>BMC Plant Biology</i> , 2014, 14, 239.	1.6	33
276	Feeding on Leaves of the Glucosinolate Transporter Mutant <i>gtr1gtr2</i> Reduces Fitness of <i>Myzus persicae</i> . <i>Journal of Chemical Ecology</i> , 2015, 41, 975-984.	0.9	32
277	Accumulation of Catechin and Proanthocyanidins in Black Poplar Stems After Infection by <i>Plectosphaerella populi</i> : Hormonal Regulation, Biosynthesis and Antifungal Activity. <i>Frontiers in Plant Science</i> , 2019, 10, 1441.	1.7	32
278	Biosynthesis and antifungal activity of fungus-induced <i>O</i> -methylated flavonoids in maize. <i>Plant Physiology</i> , 2022, 188, 167-190.	2.3	32
279	Lack of antagonism between salicylic acid and jasmonate signalling pathways in poplar. <i>New Phytologist</i> , 2022, 235, 701-717.	3.5	32
280	Glycine Conjugates in a Lepidopteran Insect Herbivore-The Metabolism of Benzylglucosinolate in the Cabbage White Butterfly, <i>Pieris rapae</i> . <i>ChemBioChem</i> , 2006, 7, 1982-1989.	1.3	31
281	Species-specific responses of pine sesquiterpene synthases to sawfly oviposition. <i>Phytochemistry</i> , 2010, 71, 909-917.	1.4	31
282	Gypsy Moth Caterpillar Feeding has Only a Marginal Impact on Phenolic Compounds in Old-Growth Black Poplar. <i>Journal of Chemical Ecology</i> , 2013, 39, 1301-1312.	0.9	31
283	CYP79 P450 monooxygenases in gymnosperms: CYP79A118 is associated with the formation of taxiphyllin in <i>Taxus baccata</i> . <i>Plant Molecular Biology</i> , 2017, 95, 169-180.	2.0	31
284	The occurrence and formation of monoterpenes in herbivore-damaged poplar roots. <i>Scientific Reports</i> , 2018, 8, 17936.	1.6	31
285	New Perspectives on CO <sub>2</sub> , Temperature, and Light Effects on BVOC Emissions Using Online Measurements by PTR-MS and Cavity Ring-Down Spectroscopy. <i>Environmental Science &amp; Technology</i> , 2018, 52, 13811-13823.	4.6	31
286	Terpene Synthase Genes Originated from Bacteria through Horizontal Gene Transfer Contribute to Terpenoid Diversity in Fungi. <i>Scientific Reports</i> , 2019, 9, 9223.	1.6	31
287	Foliar herbivory by caterpillars and aphids differentially affects phytohormonal signalling in roots and plant defence to a root herbivore. <i>Plant, Cell and Environment</i> , 2020, 43, 775-786.	2.8	31
288	Determination of the absolute configuration of the glucosinolate methyl sulfoxide group reveals a stereospecific biosynthesis of the side chain. <i>Phytochemistry</i> , 2008, 69, 2737-2742.	1.4	30

#	ARTICLE	IF	CITATIONS
289	Quantitative iTRAQ proteome and comparative transcriptome analysis of elicitor-induced Norway spruce ( <i>Picea abies</i> ) cells reveals elements of calcium signaling in the early conifer defense response. <i>Proteomics</i> , 2009, 9, 350-367.	1.3	30
290	Theoretical and Experimental Analysis of the Reaction Mechanism of MrTPS2, a Triquinane-Forming Sesquiterpene Synthase from Chamomile. <i>Chemistry - A European Journal</i> , 2013, 19, 13590-13600.	1.7	30
291	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.	2.3	30
292	One amino acid makes the difference: the formation of ent-kaurene and 16 $\beta$ -hydroxy-ent-kaurane by diterpene synthases in poplar. <i>BMC Plant Biology</i> , 2015, 15, 262.	1.6	30
293	Glucosylation prevents plant defense activation in phloem-feeding insects. <i>Nature Chemical Biology</i> , 2020, 16, 1420-1426.	3.9	30
294	Negative regulation of plastidial isoprenoid pathway by herbivore-induced $\beta$ -cyclocitral in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	30
295	Light and Nutrient Dependent Responses in Secondary Metabolites of <i>Plantago lanceolata</i> Offspring Are Due to Phenotypic Plasticity in Experimental Grasslands. <i>PLoS ONE</i> , 2015, 10, e0136073.	1.1	29
296	The cytosolic branched-chain aminotransferases of <i>Arabidopsis thaliana</i> influence methionine supply, salvage and glucosinolate metabolism. <i>Plant Molecular Biology</i> , 2015, 88, 119-131.	2.0	29
297	Plant Defensive $\beta$ -Glucosidases Resist Digestion and Sustain Activity in the Gut of a Lepidopteran Herbivore. <i>Frontiers in Plant Science</i> , 2018, 9, 1389.	1.7	29
298	The Fall Armyworm <i>Spodoptera frugiperda</i> Utilizes Specific UDP-Glycosyltransferases to Inactivate Maize Defensive Benzoxazinoids. <i>Frontiers in Physiology</i> , 2020, 11, 604754.	1.3	29
299	Plant defences against ants provide a pathway to social parasitism in butterflies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151111.	1.2	28
300	Gallocatechin biosynthesis via a flavonoid 3,5-hydroxylase is a defense response in Norway spruce against infection by the bark beetle-associated sap-staining fungus <i>Endoconidiophora polonica</i> . <i>Phytochemistry</i> , 2018, 148, 78-86.	1.4	28
301	Seasonal and herbivore-induced dynamics of foliar glucosinolates in wild cabbage ( <i>Brassica</i> ). <i>Journal of Experimental Botany</i> , 2010, 61, 107-116.	0.78	28
302	Metabolism of Monoterpenes in Cell Cultures of Common Sage ( <i>Salvia officinalis</i> ). <i>Plant Physiology</i> , 1990, 93, 1559-1567.	2.3	27
303	Biosynthesis of monoterpenes: Stereochemistry of the coupled isomerization and cyclization of geranyl pyrophosphate to camphane and isocamphane monoterpenes. <i>Archives of Biochemistry and Biophysics</i> , 1990, 277, 374-381.	1.4	27
304	Chemical ecology in the molecular era. <i>Trends in Plant Science</i> , 1998, 3, 362-365.	4.3	27
305	Old substrates for new enzymes of terpenoid biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10402-10403.	3.3	27
306	An elm EST database for identifying leaf beetle egg-induced defense genes. <i>BMC Genomics</i> , 2012, 13, 242.	1.2	27

#	ARTICLE	IF	CITATIONS
307	CYP79D enzymes contribute to jasmonic acid-induced formation of aldoximes and other nitrogenous volatiles in two <i>Erythroxylum</i> species. <i>BMC Plant Biology</i> , 2016, 16, 215.	1.6	27
308	Elm defence against herbivores and pathogens: morphological, chemical and molecular regulation aspects. <i>Phytochemistry Reviews</i> , 2016, 15, 961-983.	3.1	27
309	Effect of Drought on the Methylerythritol 4-Phosphate (MEP) Pathway in the Isoprene Emitting Conifer <i>Picea glauca</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 546295.	1.7	27
310	Nonradioactive assay for detecting isoprenyl diphosphate synthase activity in crude plant extracts using liquid chromatography coupled with tandem mass spectrometry. <i>Analytical Biochemistry</i> , 2012, 422, 33-38.	1.1	26
311	<i>Arabidopsis thaliana</i> Plants with Different Levels of Aliphatic- and Indolyl-Glucosinolates Affect Host Selection and Performance of <i>Bemisia tabaci</i> . <i>Journal of Chemical Ecology</i> , 2013, 39, 1361-1372.	0.9	26
312	Modulation of Legume Defense Signaling Pathways by Native and Non-native Pea Aphid Clones. <i>Frontiers in Plant Science</i> , 2016, 07, 1872.	1.7	26
313	A below-ground herbivore shapes root defensive chemistry in natural plant populations. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160285.	1.2	26
314	<i>Alternaria Brassicae</i> Induces Systemic Jasmonate Responses in <i>Arabidopsis</i> Which Travel to Neighboring Plants via a <i>Piriformospora Indica</i> Hyphal Network and Activate Abscisic Acid Responses. <i>Frontiers in Plant Science</i> , 2018, 9, 626.	1.7	26
315	The Small Subunit 1 of the <i>Arabidopsis</i> Isopropylmalate Isomerase Is Required for Normal Growth and Development and the Early Stages of Glucosinolate Formation. <i>PLoS ONE</i> , 2014, 9, e91071.	1.1	25
316	Metabolism of poplar salicinoids by the generalist herbivore <i>Lymantria dispar</i> (Lepidoptera). <i>Insect Biochemistry and Molecular Biology</i> , 2016, 78, 39-49.	1.2	25
317	Caterpillars induce jasmonates in flowers and alter plant responses to a second attacker. <i>New Phytologist</i> , 2018, 217, 1279-1291.	3.5	25
318	Specificity of Herbivore Defense Responses in a Woody Plant, Black Poplar ( <i>Populus nigra</i> ). <i>Journal of Chemical Ecology</i> , 2019, 45, 162-177.	0.9	25
319	Expression pattern of the glucosinolate side chain biosynthetic genes MAM1 and MAM3 of <i>Arabidopsis thaliana</i> in different organs and developmental stages. <i>Plant Physiology and Biochemistry</i> , 2012, 53, 77-83.	2.8	24
320	The nesting preference of an invasive ant is associated with the cues produced by actinobacteria in soil. <i>PLoS Pathogens</i> , 2020, 16, e1008800.	2.1	24
321	Induced Chemical Defenses in Conifers: Biochemical and Molecular Approaches to Studying Their Function. <i>Recent Advances in Phytochemistry</i> , 2005, 39, 1-28.	0.5	23
322	Multiple effects of temperature, photoperiod and food quality on the performance of a pine sawfly. <i>Ecological Entomology</i> , 2013, 38, 201-208.	1.1	23
323	Herbivory meets fungivory: insect herbivores feed on plant pathogenic fungi for their own benefit. <i>Ecology Letters</i> , 2020, 23, 1073-1084.	3.0	23
324	Poplar MYB117 promotes anthocyanin synthesis and enhances flavonoid B-ring hydroxylation by up-regulating the flavonoid 3,5-hydroxylase gene. <i>Journal of Experimental Botany</i> , 2021, 72, 3864-3880.	2.4	23

#	ARTICLE	IF	CITATIONS
325	One-dimensional <sup>13</sup> C NMR and HPLC-1H NMR techniques for observing carbon-13 and deuterium labelling in biosynthetic studies. <i>Phytochemistry Reviews</i> , 2003, 2, 31-43.	3.1	22
326	Molecular Regulation of Induced Terpenoid Biosynthesis in Conifers. <i>Phytochemistry Reviews</i> , 2006, 5, 179-189.	3.1	22
327	Restoring (E)- <sup>12</sup> -Caryophyllene Production in a Non-producing Maize Line Compromises its Resistance against the Fungus <i>Colletotrichum graminicola</i> . <i>Journal of Chemical Ecology</i> , 2015, 41, 213-223.	0.9	22
328	Heterotic patterns of primary and secondary metabolites in the oilseed crop <i>Brassica juncea</i> . <i>Heredity</i> , 2019, 123, 318-336.	1.2	22
329	Separate Pathways Contribute to the Herbivore-Induced Formation of 2-Phenylethanol in Poplar. <i>Plant Physiology</i> , 2019, 180, 767-782.	2.3	22
330	Differential localization of flavonoid glucosides in an aquatic plant implicates different functions under abiotic stress. <i>Plant, Cell and Environment</i> , 2021, 44, 900-914.	2.8	22
331	Terpenoid Biosynthesis: The Basic Pathway and Formation of Monoterpenes, Sesquiterpenes, and Diterpenes. , 2018, , 339-388.		22
332	Unique Proline- <sup>6</sup> -Benzoquinone Pigment from the Colored Nectar of <sup>6</sup> -Bird <sup>6</sup> 's Coca Cola Tree <sup>6</sup> -Functions in Bird Attractions. <i>Organic Letters</i> , 2012, 14, 4146-4149.	2.4	21
333	Herbivore-induced volatile emission from old-growth black poplar trees under field conditions. <i>Scientific Reports</i> , 2019, 9, 7714.	1.6	21
334	Germacranolides from <i>Helianthus californicus</i> . <i>Phytochemistry</i> , 1984, 23, 2561-2571.	1.4	20
335	Characterization of three novel isoprenyl diphosphate synthases from the terpenoid rich mango fruit. <i>Plant Physiology and Biochemistry</i> , 2013, 71, 121-131.	2.8	20
336	Implication of HMGR in homeostasis of sequestered and de novo produced precursors of the iridoid biosynthesis in leaf beetle larvae. <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 76-88.	1.2	19
337	A single amino acid determines the site of deprotonation in the active center of sesquiterpene synthases SbTPS1 and SbTPS2 from <i>Sorghum bicolor</i> . <i>Phytochemistry</i> , 2012, 75, 6-13.	1.4	19
338	The biosynthesis of hydroxycinnamoyl quinate esters and their role in the storage of cocaine in <i>Erythroxylum coca</i> . <i>Phytochemistry</i> , 2013, 91, 177-186.	1.4	19
339	Smelling the tree and the forest: elm background odours affect egg parasitoid orientation to herbivore induced terpenoids. <i>BioControl</i> , 2014, 59, 29-43.	0.9	19
340	Detoxification of plant defensive glucosinolates by an herbivorous caterpillar is beneficial to its endoparasitic wasp. <i>Molecular Ecology</i> , 2020, 29, 4014-4031.	2.0	19
341	Alarm pheromone emission by pea aphid, <i>Acyrtosiphon pisum</i> , clones under predation by lacewing larvae. <i>Entomologia Experimentalis Et Applicata</i> , 2008, 128, 403-409.	0.7	18
342	Mathematical modelling of aliphatic glucosinolate chain length distribution in <i>Arabidopsis thaliana</i> leaves. <i>Phytochemistry Reviews</i> , 2009, 8, 39-51.	3.1	18

#	ARTICLE	IF	CITATIONS
343	The flowering of a new scent pathway in rose. <i>Science</i> , 2015, 349, 28-29.	6.0	18
344	Influence of medium and elicitors on the production of cocaine, amino acids and phytohormones by <i>Erythroxylum coca calli</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2015, 120, 1061-1075.	1.2	18
345	Quantifying the Metabolites of the Methylerythritol 4-Phosphate (MEP) Pathway in Plants and Bacteria by Liquid Chromatography–Triple Quadrupole Mass Spectrometry. <i>Methods in Enzymology</i> , 2016, 576, 225-249.	0.4	18
346	Variable dependency on associated yeast communities influences host range in <i>Drosophila</i> species. <i>Oikos</i> , 2020, 129, 964-982.	1.2	18
347	Production of constitutive and induced secondary metabolites is coordinated with growth and storage in Norway spruce saplings. <i>Tree Physiology</i> , 2020, 40, 928-942.	1.4	18
348	Sulfur-Containing Secondary Metabolites and Their Role in Plant Defense. <i>Advances in Photosynthesis and Respiration</i> , 2008, , 201-222.	1.0	17
349	Improved sulfur nutrition provides the basis for enhanced production of sulfur-containing defense compounds in <i>Arabidopsis thaliana</i> upon inoculation with <i>Alternaria brassicicola</i> . <i>Journal of Plant Physiology</i> , 2012, 169, 740-743.	1.6	17
350	Insect attraction to herbivore-induced beech volatiles under different forest management regimes. <i>Oecologia</i> , 2014, 176, 569-580.	0.9	17
351	A Generalist Herbivore Copes with Specialized Plant Defence: the Effects of Induction and Feeding by <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae) Larvae on Intact <i>Arabidopsis thaliana</i> (Brassicales) Plants. <i>Journal of Chemical Ecology</i> , 2017, 43, 608-616.	0.9	17
352	Four terpene synthases contribute to the generation of chemotypes in tea tree ( <i>Melaleuca</i> ). <i>Journal of Chemical Ecology</i> , 2017, 43, 503-512.	1.6	17
353	Barley yellow dwarf virus Infection Leads to Higher Chemical Defense Signals and Lower Electrophysiological Reactions in Susceptible Compared to Tolerant Barley Genotypes. <i>Frontiers in Plant Science</i> , 2018, 9, 145.	1.7	17
354	Activation and detoxification of cassava cyanogenic glucosides by the whitefly <i>Bemisia tabaci</i> . <i>Scientific Reports</i> , 2021, 11, 13244.	1.6	17
355	Plants protect themselves from herbivores by optimizing the distribution of chemical defenses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	17
356	Identification and characterization of CYP79D6v4, a cytochrome P450 enzyme producing aldoximes in black poplar ( <i>Populus nigra</i> ). <i>Plant Signaling and Behavior</i> , 2013, 8, e27640.	1.2	16
357	Plant glucosinolate content increases susceptibility to diamondback moth (Lepidoptera: Plutellidae) regardless of its diet. <i>Journal of Pest Science</i> , 2020, 93, 491-506.	1.9	16
358	Belowground herbivore tolerance involves delayed overcompensatory root regrowth in maize. <i>Entomologia Experimentalis Et Applicata</i> , 2015, 157, 113-120.	0.7	15
359	Temperature affects insect outbreak risk through tritrophic interactions mediated by plant secondary compounds. <i>Ecosphere</i> , 2015, 6, 1-17.	1.0	15
360	Benzoxazinoids: Reactivity and Modes of Action of a Versatile Class of Plant Chemical Defenses. <i>Journal of the Brazilian Chemical Society</i> , 2016, , .	0.6	15



#	ARTICLE	IF	CITATIONS
361	The use of Leaf Surface Contact Cues During Oviposition Explains Field Preferences in the Willow Sawfly <i>Nematus oligospilus</i> . <i>Scientific Reports</i> , 2019, 9, 4946.	1.6	15
362	The plastidial metabolite 2- <i>C</i> -methyl- <i>D</i> -erythritol-2,4-cyclodiphosphate modulates defence responses against aphids. <i>Plant, Cell and Environment</i> , 2019, 42, 2309-2323.	2.8	15
363	<i>Sclerotinia sclerotiorum</i> Infection Triggers Changes in Primary and Secondary Metabolism in <i>Arabidopsis thaliana</i> . <i>Phytopathology</i> , 2021, 111, 559-569.	1.1	15
364	Relative Configuration of Glechomafuran Isolated from the Fruits of <i>Smyrniolum olusatrum</i> . <i>Journal of Natural Products</i> , 1983, 46, 490-492.	1.5	14
365	Furanoheliangolides from <i>Viguiera greggii</i> . <i>Phytochemistry</i> , 1984, 23, 1967-1970.	1.4	14
366	Evolution of isoprenyl diphosphate synthase-like terpene synthases in fungi. <i>Scientific Reports</i> , 2020, 10, 14944.	1.6	14
367	Ecological factors influence balancing selection on leaf chemical profiles of a wildflower. <i>Nature Ecology and Evolution</i> , 2021, 5, 1135-1144.	3.4	14
368	A Cryptic Plant Terpene Cyclase Producing Unconventional 18- and 14-Membered Macrocyclic C <sub>25</sub> and C <sub>20</sub> Terpenoids with Immunosuppressive Activity. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25468-25476.	7.2	14
369	Furanoheliangolides from <i>Helianthus schweinitzii</i> . <i>Phytochemistry</i> , 1984, 23, 2557-2559.	1.4	13
370	Sesquiterpene lactones from two newly-described species of <i>Vernonia</i> : <i>V. jonesii</i> and <i>V. pooleae</i> . <i>Phytochemistry</i> , 1984, 23, 777-780.	1.4	13
371	Isotope sensitive branching and kinetic isotope effects to analyse multiproduct terpenoid synthases from <i>Zea mays</i> . <i>Chemical Communications</i> , 2015, 51, 3797-3800.	2.2	13
372	The nitrilase PtNIT1 catabolizes herbivore-induced nitriles in <i>Populus trichocarpa</i> . <i>BMC Plant Biology</i> , 2018, 18, 251.	1.6	13
373	Candidate metabolites for ash dieback tolerance in <i>Fraxinus excelsior</i> . <i>Journal of Experimental Botany</i> , 2020, 71, 6074-6083.	2.4	13
374	So Much for Glucosinolates: A Generalist Does Survive and Develop on Brassicas, but at What Cost?. <i>Plants</i> , 2021, 10, 962.	1.6	13
375	Germacranolides from <i>Viguiera microphylla</i> . <i>Phytochemistry</i> , 1984, 23, 1281-1287.	1.4	12
376	Â-Eudesmol, a New Sesquiterpene Component in Intact and Organized Root of Chamomile ( <i>Chamomilla</i> ) Tj ETQq0 0.0 rgBT /Overlock 10	0.7	12
377	An oxidoreductase from 'Alphonso' mango catalyzing biosynthesis of furaneol and reduction of reactive carbonyls. <i>SpringerPlus</i> , 2013, 2, 494.	1.2	12
378	Beetle feeding induces a different volatile emission pattern from black poplar foliage than caterpillar herbivory. <i>Plant Signaling and Behavior</i> , 2015, 10, e987522.	1.2	12



#	ARTICLE	IF	CITATIONS
379	Identification and Characterization of trans-Isopentenyl Diphosphate Synthases Involved in Herbivory-Induced Volatile Terpene Formation in <i>Populus trichocarpa</i> . <i>Molecules</i> , 2019, 24, 2408.	1.7	12
380	The Occurrence of Sulfated Salicinoids in Poplar and Their Formation by Sulfotransferase1. <i>Plant Physiology</i> , 2020, 183, 137-151.	2.3	12
381	A peroxisomal $\hat{1}^2$ -oxidative pathway contributes to the formation of C6â€C1 aromatic volatiles in poplar. <i>Plant Physiology</i> , 2021, 186, 891-909.	2.3	12
382	Metabolism of Glucosinolates and Their Hydrolysis Products in Insect Herbivores. , 2015, , 163-194.		11
383	Enemy-free space promotes maintenance of host races in an aphid species. <i>Oecologia</i> , 2016, 181, 659-672.	0.9	11
384	Rust Infection of Black Poplar Trees Reduces Photosynthesis but Does Not Affect Isoprene Biosynthesis or Emission. <i>Frontiers in Plant Science</i> , 2018, 9, 1733.	1.7	11
385	Diversity and Functional Evolution of Terpene Synthases in Dictyostelid Social Amoebae. <i>Scientific Reports</i> , 2018, 8, 14361.	1.6	11
386	The reconstruction and biochemical characterization of ancestral genes furnish insights into the evolution of terpene synthase function in the Poaceae. <i>Plant Molecular Biology</i> , 2020, 104, 203-215.	2.0	11
387	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. <i>Molecules</i> , 2021, 26, 555.	1.7	11
388	A terpene synthase-cytochrome P450 cluster in <i>Dictyostelium discoideum</i> produces a novel trisnorsesquiterpene. <i>ELife</i> , 2019, 8, .	2.8	11
389	Sesquiterpene lactones from <i>Helianthus niveus</i> subsp. <i>niveus</i> . <i>Phytochemistry</i> , 1985, 24, 783-785.	1.4	10
390	Identification of a Sulfatase that Detoxifies Glucosinolates in the Phloem-Feeding Insect <i>Bemisia tabaci</i> and Prefers Indolic Glucosinolates. <i>Frontiers in Plant Science</i> , 2021, 12, 671286.	1.7	10
391	1,2-secogermacranolides from <i>Helianthus giganteus</i> and <i>H. hirsutus</i> . <i>Phytochemistry</i> , 1984, 23, 2573-2575.	1.4	9
392	Phytochemistry reviewsâ€™special issue on glucosinolates. <i>Phytochemistry Reviews</i> , 2009, 8, 1-2.	3.1	9
393	Sesquiterpene lactones of <i>Helianthus gracilentus</i> . <i>Phytochemistry</i> , 1984, 23, 2277-2279.	1.4	8
394	Sesquiterpene lactones and diterpene carboxylic acids from <i>Helianthus divaricatus</i> , <i>H. resinus</i> and <i>H. salicifolius</i> . <i>Phytochemistry</i> , 1985, 25, 159-165.	1.4	8
395	Insects turn up their noses at sweating plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17211-17212.	3.3	8
396	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. <i>Plants</i> , 2020, 9, 552.	1.6	8

#	ARTICLE	IF	CITATIONS
397	The selective sequestration of glucosinolates by the cabbage aphid severely impacts a predatory lacewing. <i>Journal of Pest Science</i> , 2021, 94, 1147-1160.	1.9	8
398	A beta-glucosidase of an insect herbivore determines both toxicity and deterrence of a dandelion defense metabolite. <i>ELife</i> , 2021, 10, .	2.8	8
399	CRISPR/Cas9 disruption of <i>UGT71L1</i> in poplar connects salicinoid and salicylic acid metabolism and alters growth and morphology. <i>Plant Cell</i> , 2022, 34, 2925-2947.	3.1	8
400	Sesquiterpene Lactones of One Chemical Race of <i>Helianthus maximiliani</i> . <i>Journal of Natural Products</i> , 1984, 47, 748-750.	1.5	7
401	Glycine Conjugates in a Lepidopteran Insect Herbivore—The Metabolism of Benzylglucosinolate in the Cabbage White Butterfly, <i>Pieris rapae</i> . <i>ChemBioChem</i> , 2007, 8, 1757-1757.	1.3	7
402	Hoverfly preference for high honeydew amounts creates enemy-free space for aphids colonizing novel host plants. <i>Journal of Animal Ecology</i> , 2016, 85, 1286-1297.	1.3	7
403	Microbes matter: herbivore gut endosymbionts play a role in breakdown of host plant toxins. <i>Environmental Microbiology</i> , 2016, 18, 1306-1307.	1.8	7
404	Releasing plant volatiles, as simple as ABC. <i>Science</i> , 2017, 356, 1334-1335.	6.0	7
405	Dealing with food shortage: larval dispersal behaviour and survival on non-prey food of the hoverfly <i>Episyrphus balteatus</i> . <i>Ecological Entomology</i> , 2018, 43, 578-590.	1.1	7
406	Trait-mediated indirect interactions: Moose browsing increases sawfly fecundity through plant-induced responses. <i>Ecology and Evolution</i> , 2019, 9, 10615-10629.	0.8	7
407	Simultaneous Real-Time Measurement of Isoprene and 2-Methyl-3-Buten-2-ol Emissions From Trees Using SIFT-MS. <i>Frontiers in Plant Science</i> , 2020, 11, 578204.	1.7	7
408	Differential effects of the rhizobacterium <i>Pseudomonas simiae</i> on above- and belowground chewing insect herbivores. <i>Journal of Applied Entomology</i> , 2021, 145, 250-260.	0.8	7
409	Substrate geometry controls the cyclization cascade in multiproduct terpene synthases from <i>Zea mays</i> . <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6021-6030.	1.5	5
410	Ant-like Traits in Wingless Parasitoids Repel Attack from Wolf Spiders. <i>Journal of Chemical Ecology</i> , 2018, 44, 894-904.	0.9	5
411	Poplar protease inhibitor expression differs in an herbivore specific manner. <i>BMC Plant Biology</i> , 2021, 21, 170.	1.6	5
412	Terpenoids of <i>Helianthus nuttalli</i> . <i>Journal of Natural Products</i> , 1984, 47, 1021-1023.	1.5	4
413	Biochemical and Molecular Regulation of Monoterpene Accumulation in Peppermint ( <i>Mentha</i> sp.)	0.5	4
414	Analysis of the isoprenoid pathway intermediates, dimethylallyl diphosphate and isopentenyl diphosphate, from crude plant extracts by liquid chromatography tandem mass spectrometry. <i>Phytochemical Analysis</i> , 2020, 31, 770-777.	1.2	4

#	ARTICLE	IF	CITATIONS
415	Spruce Phenolics: Biosynthesis and Ecological Functions. <i>Compendium of Plant Genomes</i> , 2020, , 193-214.	0.3	4
416	Effect of Drought and Methyl Jasmonate Treatment on Primary and Secondary Isoprenoid Metabolites Derived from the MEP Pathway in the White Spruce <i>Picea glauca</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 3838.	1.8	4
417	Bark Beetle Attack History Does Not Influence the Induction of Terpene and Phenolic Defenses in Mature Norway Spruce ( <i>Picea abies</i> ) Trees by the Bark Beetle-Associated Fungus <i>Endoconidiophora polonica</i> . <i>Frontiers in Plant Science</i> , 2022, 13, .	1.7	4
418	Alternative transcript splicing regulates UDP-glucosyltransferase-catalyzed detoxification of DIMBOA in the fall armyworm ( <i>Spodoptera frugiperda</i> ). <i>Scientific Reports</i> , 2022, 12, .	1.6	4
419	Vulnerability and responses to bark beetle and associated fungal symbiont attacks in conifers. <i>Tree Physiology</i> , 2021, 41, 1103-1108.	1.4	3
420	Volatile emission and biosynthesis in endophytic fungi colonizing black poplar leaves. <i>Beilstein Journal of Organic Chemistry</i> , 2021, 17, 1698-1711.	1.3	3
421	Further terpenoids of cultivated sunflower, <i>Helianthus annuus</i> (Asteraceae). <i>Biochemical Systematics and Ecology</i> , 1993, 21, 647.	0.6	2
422	Terpenoids in Genetically Transformed Cultures of Chamomile. <i>Chromatographia</i> , 2004, 60, .	0.7	2
423	Phenylacetaldehyde synthase 2 does not contribute to the constitutive formation of 2-phenylethyl- <sup>12</sup> -D-glucopyranoside in poplar. <i>Plant Signaling and Behavior</i> , 2019, 14, 1668233.	1.2	2
424	Evolution of DIMBOA-Glc O-Methyltransferases from Flavonoid O-Methyltransferases in the Grasses. <i>Molecules</i> , 2022, 27, 1007.	1.7	2
425	Specialist root herbivore modulates plant transcriptome and downregulates defensive secondary metabolites in a brassicaceous plant. <i>New Phytologist</i> , 2022, 235, 2378-2392.	3.5	2
426	European agbiotech crisis?. <i>Nature Biotechnology</i> , 2003, 21, 360-360.	9.4	1
427	Rod Croteau: 35 years of terrific terpene biochemistry. <i>Phytochemistry</i> , 2006, 67, 1706-1707.	1.4	1
428	Rod Croteau: 35 years of terrific terpene biochemistry. <i>Phytochemistry</i> , 2006, 67, 1562-1563.	1.4	1
429	Effect of forest stand type on host plant quality and direct and indirect effects on pine sawfly performance. <i>Agricultural and Forest Entomology</i> , 2021, 23, 163-172.	0.7	1
430	Problems and Perspectives in the Study of Metabolic Turnover of Plant Secondary Metabolites. , 1992, , 229-238.		0
431	A talent for terpenes: A biographical sketch of Rod Croteau. <i>Archives of Biochemistry and Biophysics</i> , 2006, 448, 1-2.	1.4	0
432	A Cryptic Plant Terpene Cyclase Producing Unconventional 18- and 14-Membered Macrocyclic C <sub>25</sub> and C <sub>20</sub> Terpenoids with Immunosuppressive Activity. <i>Angewandte Chemie</i> , 2021, 133, 25672-25680.	1.6	0