Jonathan Gershenzon

List of Publications by Year in descending order

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Version: 2024-02-01



#	Article	IF	CITATIONS
1	BIOLOGY AND BIOCHEMISTRY OF GLUCOSINOLATES. Annual Review of Plant Biology, 2006, 57, 303-333.	18.7	1,917
2	The function of terpene natural products in the natural world. Nature Chemical Biology, 2007, 3, 408-414.	8.0	1,564
3	Recruitment of entomopathogenic nematodes by insect-damaged maize roots. Nature, 2005, 434, 732-737.	27.8	1,099
4	Diversity and Distribution of Floral Scent. Botanical Review, The, 2006, 72, 1-120.	3.9	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.	7.1	956
6	Monoterpene and sesquiterpene synthases and the origin of terpene skeletal diversity in plants. Phytochemistry, 2009, 70, 1621-1637.	2.9	891
7	Biochemistry of Plant Volatiles: Figure 1 Plant Physiology, 2004, 135, 1893-1902.	4.8	873
8	Variation of glucosinolate accumulation among different organs and developmental stages of Arabidopsis thaliana. Phytochemistry, 2003, 62, 471-481.	2.9	814
9	Multiple stress factors and the emission of plant VOCs. Trends in Plant Science, 2010, 15, 176-184.	8.8	715
10	Genetic Control of Natural Variation in Arabidopsis Glucosinolate Accumulation. Plant Physiology, 2001, 126, 811-825.	4.8	607
11	A unified mechanism of action for volatile isoprenoids in plant abiotic stress. Nature Chemical Biology, 2009, 5, 283-291.	8.0	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.	7.1	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.	4.8	462
14	Elucidation of Gene-to-Gene and Metabolite-to-Gene Networks inArabidopsis by Integration of Metabolomics andTranscriptomics*. Journal of Biological Chemistry, 2005, 280, 25590-25595.	3.4	453
15	Metabolic costs of terpenoid accumulation in higher plants. Journal of Chemical Ecology, 1994, 20, 1281-1328.	1.8	450
16	Constitutive plant toxins and their role in defense against herbivores and pathogens. Current Opinion in Plant Biology, 2002, 5, 300-307.	7.1	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.	6.6	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.	7.1	447

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19	Successful herbivore attack due to metabolic diversion of a plant chemical defense. Proceedings of the United States of America, 2004, 101, 4859-4864.	7.1	440
20	A Maize (<i>E</i>)-β-Caryophyllene Synthase Implicated in Indirect Defense Responses against Herbivores Is Not Expressed in Most American Maize Varieties. Plant Cell, 2008, 20, 482-494.	6.6	422
21	The major volatile organic compound emitted from <i>Arabidopsis thaliana</i> flowers, the sesquiterpene (<i>E</i>)â€Î²â€caryophyllene, is a defense against a bacterial pathogen. New Phytologist, 2012, 193, 997-1008.	7.3	408
22	The specificity of herbivore-induced plant volatiles in attracting herbivore enemies. Trends in Plant Science, 2012, 17, 303-310.	8.8	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.	6.6	400
24	Protective perfumes: the role of vegetative volatiles in plant defense against herbivores. Current Opinion in Plant Biology, 2009, 12, 479-485.	7.1	387
25	Biosynthesis and Emission of Terpenoid Volatiles from Arabidopsis Flowers. Plant Cell, 2003, 15, 481-494.	6.6	381
26	Induction of Volatile Terpene Biosynthesis and Diurnal Emission by Methyl Jasmonate in Foliage of Norway Spruce. Plant Physiology, 2003, 132, 1586-1599.	4.8	381
27	Two sesquiterpene synthases are responsible for the complex mixture of sesquiterpenes emitted from Arabidopsis flowers. Plant Journal, 2005, 42, 757-771.	5.7	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.	7.1	298
29	Regulation of Monoterpene Accumulation in Leaves of Peppermint. Plant Physiology, 2000, 122, 205-214.	4.8	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.	5.7	278
31	The secondary metabolism of Arabidopsis thaliana: growing like a weed. Current Opinion in Plant Biology, 2005, 8, 308-316.	7.1	268
32	The Effect of Sulfur Nutrition on Plant Glucosinolate Content: Physiology and Molecular Mechanisms. Plant Biology, 2007, 9, 573-581.	3.8	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.	7.1	251
34	Natural Variation in Maize Aphid Resistance Is Associated with 2,4-Dihydroxy-7-Methoxy-1,4-Benzoxazin-3-One Glucoside Methyltransferase Activity Â. Plant Cell, 2013, 25, 2341-2355.	6.6	251
35	Phenolic glycosides of the Salicaceae and their role as anti-herbivore defenses. Phytochemistry, 2011, 72, 1497-1509.	2.9	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.	2.9	248

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37	Attracting friends to feast on foes: engineering terpene emission to make crop plants more attractive to herbivore enemies. Current Opinion in Biotechnology, 2003, 14, 169-176.	6.6	245
38	DOF transcription factor AtDof1.1 (OBP2) is part of a regulatory network controlling glucosinolate biosynthesis in Arabidopsis. Plant Journal, 2006, 47, 10-24.	5.7	243
39	Herbivore induction of the glucosinolate–myrosinase defense system: major trends, biochemical bases and ecological significance. Phytochemistry Reviews, 2009, 8, 149-170.	6.5	240
40	bus, a Bushy Arabidopsis CYP79F1 Knockout Mutant with Abolished Synthesis of Short-Chain Aliphatic Glucosinolates. Plant Cell, 2001, 13, 351-367.	6.6	235
41	CML42-Mediated Calcium Signaling Coordinates Responses to <i>Spodoptera</i> Herbivory and Abiotic Stresses in Arabidopsis Â. Plant Physiology, 2012, 159, 1159-1175.	4.8	233
42	The Maize Gene terpene synthase 1 Encodes a Sesquiterpene Synthase Catalyzing the Formation of (E)-β-Farnesene, (E)-Nerolidol, and (E,E)-Farnesol after Herbivore Damage. Plant Physiology, 2002, 130, 2049-2060.	4.8	226
43	Benzoic acid glucosinolate esters and other glucosinolates from Arabidopsis thaliana. Phytochemistry, 2002, 59, 663-671.	2.9	226
44	Biochemical and Histochemical Localization of Monoterpene Biosynthesis in the Glandular Trichomes of Spearmint (<i>Mentha spicata</i>). Plant Physiology, 1989, 89, 1351-1357.	4.8	221
45	Positive selection driving diversification in plant secondary metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9118-9123.	7.1	220
46	Comparative Quantitative Trait Loci Mapping of Aliphatic, Indolic and Benzylic Glucosinolate Production in <i>Arabidopsis thaliana</i> Leaves and Seeds. Genetics, 2001, 159, 359-370.	2.9	217
47	Development of Peltate Glandular Trichomes of Peppermint. Plant Physiology, 2000, 124, 665-680.	4.8	214
48	Developmental Regulation of Monoterpene Biosynthesis in the Glandular Trichomes of Peppermint. Plant Physiology, 2000, 122, 215-224.	4.8	209
49	Characterization of a Root-Specific Arabidopsis Terpene Synthase Responsible for the Formation of the Volatile Monoterpene 1,8-Cineole. Plant Physiology, 2004, 135, 1956-1966.	4.8	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. Plant Cell, 2004, 16, 1115-1131.	6.6	206
51	Characterization of a BAHD acyltransferase responsible for producing the green leaf volatile (Z)-3-hexen-1-yl acetate in Arabidopsis thaliana. Plant Journal, 2007, 49, 194-207.	5.7	199
52	MAM3 Catalyzes the Formation of All Aliphatic Glucosinolate Chain Lengths in Arabidopsis. Plant Physiology, 2007, 144, 60-71.	4.8	194
53	Fungal Planet description sheets: 320–370. Persoonia: Molecular Phylogeny and Evolution of Fungi, 2015, 34, 167-266.	4.4	193
54	Limonene Synthase, the Enzyme Responsible for Monoterpene Biosynthesis in Peppermint, Is Localized to Leucoplasts of Oil Gland Secretory Cells1. Plant Physiology, 1999, 120, 879-886.	4.8	186

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55	Disruption of Adenosine-5′-Phosphosulfate Kinase in <i>Arabidopsis</i> Reduces Levels of Sulfated Secondary Metabolites. Plant Cell, 2009, 21, 910-927.	6.6	180
56	Isolation of secretory cells from plant glandular trichomes and their use in biosynthetic studies of monoterpenes and other gland products. Analytical Biochemistry, 1992, 200, 130-138.	2.4	177
57	BRANCHED-CHAIN AMINOTRANSFERASE4 Is Part of the Chain Elongation Pathway in the Biosynthesis of Methionine-Derived Glucosinolates in Arabidopsis. Plant Cell, 2006, 18, 2664-2679.	6.6	177
58	Plant defense and herbivore counter-defense: benzoxazinoids and insect herbivores. Phytochemistry Reviews, 2016, 15, 1127-1151.	6.5	175
59	Alarm pheromone mediates production of winged dispersal morphs in aphids. Ecology Letters, 2005, 8, 596-603.	6.4	173
60	Formation of Monoterpenes in Antirrhinum majus and Clarkia breweri Flowers Involves Heterodimeric Geranyl Diphosphate Synthases. Plant Cell, 2004, 16, 977-992.	6.6	162
61	Roles of plant volatiles in defence against microbial pathogens and microbial exploitation of volatiles. Plant, Cell and Environment, 2019, 42, 2827-2843.	5.7	162
62	Distribution of Peltate Glandular Trichomes on Developing Leaves of Peppermint. Plant Physiology, 2000, 124, 655-664.	4.8	161
63	A Gain-of-Function Polymorphism Controlling Complex Traits and Fitness in Nature. Science, 2012, 337, 1081-1084.	12.6	158
64	Exogenous application of methyl jasmonate elicits defenses in Norway spruce (Picea abies) and reduces host colonization by the bark beetle Ips typographus. Oecologia, 2006, 148, 426-436.	2.0	157
65	Flavan-3-ols Are an Effective Chemical Defense against Rust Infection. Plant Physiology, 2017, 175, 1560-1578.	4.8	156
66	Deoxyxylulose 5-Phosphate Synthase Controls Flux through the Methylerythritol 4-Phosphate Pathway in Arabidopsis. Plant Physiology, 2014, 165, 1488-1504.	4.8	154
67	Biosynthesis of the Monoterpenes Limonene and Carvone in the Fruit of Caraway1. Plant Physiology, 1998, 117, 901-912.	4.8	153
68	Morphology and monoterpene biosynthetic capabilities of secretory cell clusters isolated from glandular trichomes of peppermint (Mentha piperita L.). Planta, 1992, 187, 445-54.	3.2	151
69	Methyl jasmonate treatment of mature Norway spruce (Picea abies) trees increases the accumulation of terpenoid resin components and protects against infection by Ceratocystis polonica, a bark beetle-associated fungus. Tree Physiology, 2006, 26, 977-988.	3.1	150
70	A Common Fungal Associate of the Spruce Bark Beetle Metabolizes the Stilbene Defenses of Norway Spruce Â. Plant Physiology, 2013, 162, 1324-1336.	4.8	150
71	Where will the wood come from? Plantation forests and the role of biotechnology. Trends in Biotechnology, 2002, 20, 291-296.	9.3	148
72	Subgroup 4 R2R3-MYBs in conifer trees: gene family expansion and contribution to the isoprenoid- and flavonoid-oriented responses. Journal of Experimental Botany, 2010, 61, 3847-3864.	4.8	146

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73	Genetic evidence for natural productâ€mediated plant–plant allelopathy in rice (<i>Oryza sativa</i>). New Phytologist, 2012, 193, 570-575.	7.3	146
74	The Effects of Arbuscular Mycorrhizal Fungi on Direct and Indirect Defense Metabolites of Plantago lanceolata L Journal of Chemical Ecology, 2009, 35, 833-843.	1.8	145
75	Tree defence and bark beetles in a drying world: carbon partitioning, functioning and modelling. New Phytologist, 2020, 225, 26-36.	7.3	144
76	Gut microbiota of the pine weevil degrades conifer diterpenes and increases insect fitness. Molecular Ecology, 2017, 26, 4099-4110.	3.9	143
77	Terpene synthases of oregano (Origanum vulgare L.) and their roles in the pathway and regulation of terpene biosynthesis. Plant Molecular Biology, 2010, 73, 587-603.	3.9	141
78	Altered Glucosinolate Hydrolysis in Genetically Engineered Arabidopsis thaliana and its Influence on the Larval Development of Spodoptera littoralis. Journal of Chemical Ecology, 2006, 32, 2333-2349.	1.8	139
79	Terpenoid Secondary Metabolism in Arabidopsis thaliana: cDNA Cloning, Characterization, and Functional Expression of a Myrcene/(E)-β-Ocimene Synthase. Archives of Biochemistry and Biophysics, 2000, 375, 261-269.	3.0	137
80	Artemisinin biosynthesis in growing plants of Artemisia annua. A 13CO2 study. Phytochemistry, 2010, 71, 179-187.	2.9	137
81	Two R2R3â€ <scp>MYB</scp> proteins are broad repressors of flavonoid and phenylpropanoid metabolism in poplar. Plant Journal, 2018, 96, 949-965.	5.7	137
82	Identification and Regulation of TPSO4/GES, an <i>Arabidopsis</i> Geranyllinalool Synthase Catalyzing the First Step in the Formation of the Insect-Induced Volatile C16-Homoterpene TMTT. Plant Cell, 2008, 20, 1152-1168.	6.6	136
83	Functional identification of AtTPS03 as (E)-β-ocimene synthase: a monoterpene synthase catalyzing jasmonate- and wound-induced volatile formation in Arabidopsis thaliana. Planta, 2003, 216, 745-751.	3.2	134
84	Chapter five Glucosinolate hydrolysis and its impact on generalist and specialist insect herbivores. Recent Advances in Phytochemistry, 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 Arabidopsis Â. Plant Physiology, 2008, 148, 2096-2108.	4.8	131
86	Variation of Herbivore-Induced Volatile Terpenes among Arabidopsis Ecotypes Depends on Allelic Differences and Subcellular Targeting of Two Terpene Synthases, TPSO2 and TPSO3 Â Â. Plant Physiology, 2010, 153, 1293-1310.	4.8	131
87	Comparative biochemical characterization of nitrile-forming proteins from plants and insects that alter myrosinase-catalysed hydrolysis of glucosinolates. FEBS Journal, 2006, 273, 2432-2446.	4.7	129
88	Geographic and evolutionary diversification of glucosinolates among near relatives of Arabidopsis thaliana (Brassicaceae). Phytochemistry, 2005, 66, 1321-1333.	2.9	126
89	Functional identification and differential expression of 1-deoxy-d-xylulose 5-phosphate synthase in induced terpenoid resin formation of Norway spruce (Picea abies). Plant Molecular Biology, 2007, 65, 243-257.	3.9	126
90	The MAP kinase MpkA controls cell wall integrity, oxidative stress response, gliotoxin production and iron adaptation in <i>Aspergillus fumigatus</i> . Molecular Microbiology, 2011, 82, 39-53.	2.5	125

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91	Jasmonic Acid and Its Precursor 12-Oxophytodienoic Acid Control Different Aspects of Constitutive and Induced Herbivore Defenses in Tomato. Plant Physiology, 2014, 166, 396-410.	4.8	125
92	Metabolic Flux Analysis of Plastidic Isoprenoid Biosynthesis in Poplar Leaves Emitting and Nonemitting Isoprene Â. Plant Physiology, 2014, 165, 37-51.	4.8	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. Plant Cell, 2008, 20, 677-696.	6.6	122
94	The Plastidic Bile Acid Transporter 5 Is Required for the Biosynthesis of Methionine-Derived Glucosinolates in <i>Arabidopsis thaliana</i> Â. Plant Cell, 2009, 21, 1813-1829.	6.6	122
95	Poplar MYB115 and MYB134 Transcription Factors Regulate Proanthocyanidin Synthesis and Structure. Plant Physiology, 2017, 174, 154-171.	4.8	122
96	Inducibility of chemical defenses in Norway spruce bark is correlated with unsuccessful mass attacks by the spruce bark beetle. Oecologia, 2012, 170, 183-198.	2.0	120
97	Herbivoreâ€induced volatile emission in black poplar: regulation and role in attracting herbivore enemies. Plant, Cell and Environment, 2014, 37, 1909-1923.	5.7	120
98	Demonstration and characterization of (E)-nerolidol synthase from maize: a herbivore-inducible terpene synthase participating in (3 E)-4,8-dimethyl-1,3,7-nonatriene biosynthesis. Planta, 2000, 210, 815-822.	3.2	119
99	The sesquiterpene hydrocarbons of maize (Zea mays) form five groups with distinct developmental and organ-specific distributions. Phytochemistry, 2004, 65, 1895-1902.	2.9	119
100	Characterization and mechanism of (4S)-limonene synthase, A monoterpene cyclase from the glandular trichomes of peppermint (Mentha x piperita). Archives of Biochemistry and Biophysics, 1992, 296, 49-57.	3.0	118
101	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.	1.8	118
102	<i>Phyllotreta striolata</i> flea beetles use host plant defense compounds to create their own glucosinolate-myrosinase system. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7349-7354.	7.1	116
103	Formation of Simple Nitriles upon Glucosinolate Hydrolysis Affects Direct and Indirect Defense Against the Specialist Herbivore, Pieris rapae. Journal of Chemical Ecology, 2008, 34, 1311-1321.	1.8	115
104	Arabidopsis Branched-Chain Aminotransferase 3 Functions in Both Amino Acid and Glucosinolate Biosynthesis Â. Plant Physiology, 2008, 146, 1028-1039.	4.8	112
105	Biosynthesis of the Major Tetrahydroxystilbenes in Spruce, Astringin and Isorhapontin, Proceeds via Resveratrol and Is Enhanced by Fungal Infection Â. Plant Physiology, 2011, 157, 876-890.	4.8	112
106	Metabolism of glucosinolate-derived isothiocyanates to glutathione conjugates in generalist lepidopteran herbivores. Insect Biochemistry and Molecular Biology, 2012, 42, 174-182.	2.7	112
107	Little peaks with big effects: establishing the role of minor plant volatiles in plant–insect interactions. Plant, Cell and Environment, 2014, 37, 1836-1844.	5.7	112
108	Expression profiling of metabolic genes in response to methyl jasmonate reveals regulation of genes of primary and secondary sulfur-related pathways in Arabidopsis thaliana. Photosynthesis Research, 2005, 86, 491-508.	2.9	111

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109	The biosynthesis of benzoic acid glucosinolate esters in Arabidopsis thaliana. Phytochemistry, 2001, 57, 23-32.	2.9	110
110	Glucosinolate hydrolysis in Lepidium sativum––identification of the thiocyanate-forming protein. Plant Molecular Biology, 2006, 63, 49-61.	3.9	110
111	Biosynthesis of methionine-derived glucosinolates in Arabidopsis thaliana : recombinant expression and characterization of methylthioalkylmalate synthase, the condensing enzyme of the chain-elongation cycle. Planta, 2004, 218, 1026-1035.	3.2	109
112	Volatile chemicals from leaf litter are associated with invasiveness of a Neotropical weed in Asia. Ecology, 2011, 92, 316-324.	3.2	109
113	A gene controlling variation in Arabidopsis glucosinolate composition is part of the methionine chain elongation pathway. Plant Physiology, 2001, 127, 1077-88.	4.8	109
114	Herbivoreâ€induced poplar cytochrome P450 enzymes of the <scp>CYP</scp> 71 family convert aldoximes to nitriles which repel a generalist caterpillar. Plant Journal, 2014, 80, 1095-1107.	5.7	105
115	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.	6.6	105
116	Two Herbivore-Induced Cytochrome P450 Enzymes CYP79D6 and CYP79D7 Catalyze the Formation of Volatile Aldoximes Involved in Poplar Defense A. Plant Cell, 2013, 25, 4737-4754.	6.6	104
117	Gene Coexpression Analysis Reveals Complex Metabolism of the Monoterpene Alcohol Linalool in <i>Arabidopsis</i> Flowers Â. Plant Cell, 2013, 25, 4640-4657.	6.6	104
118	Induced Jasmonate Signaling Leads to Contrasting Effects on Root Damage and Herbivore Performance. Plant Physiology, 2015, 167, 1100-1116.	4.8	104
119	Defensive weapons and defense signals in plants: Some metabolites serve both roles. BioEssays, 2015, 37, 167-174.	2.5	104
120	Secondary metabolites and the higher classification of angiosperms. Nordic Journal of Botany, 1983, 3, 5-34.	0.5	103
121	Nonseed plant <i>Selaginella moellendorffii</i> has both seed plant and microbial types of terpene synthases. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14711-14715.	7.1	103
122	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.	7.3	103
123	Glandular Trichomes of <i>Leucosceptrum canum</i> Harbor Defensive Sesterterpenoids. Angewandte Chemie - International Edition, 2010, 49, 4471-4475.	13.8	102
124	Covariation and phenotypic integration in chemical communication displays: biosynthetic constraints and ecoâ€evolutionary implications. New Phytologist, 2018, 220, 739-749.	7.3	101
125	The Methionine Chain Elongation Pathway in the Biosynthesis of Glucosinolates in Eruca sativa (Brassicaceae). Archives of Biochemistry and Biophysics, 2000, 378, 411-419.	3.0	100
126	Evolution in an Ancient Detoxification Pathway Is Coupled with a Transition to Herbivory in the Drosophilidae. Molecular Biology and Evolution, 2014, 31, 2441-2456.	8.9	100

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127	Plant iron acquisition strategy exploited by an insect herbivore. Science, 2018, 361, 694-697.	12.6	98
128	The role of glucosinolates and the jasmonic acid pathway in resistance of <i>Arabidopsis thaliana</i> against molluscan herbivores. Molecular Ecology, 2014, 23, 1188-1203.	3.9	95
129	The three desulfoglucosinolate sulfotransferase proteins in Arabidopsis have different substrate specificities and are differentially expressed. FEBS Journal, 2006, 273, 122-136.	4.7	94
130	A Bifunctional Geranyl and Geranylgeranyl Diphosphate Synthase Is Involved in Terpene Oleoresin Formation in <i>Picea abies</i> . Plant Physiology, 2010, 152, 639-655.	4.8	94
131	How Glucosinolates Affect Generalist Lepidopteran Larvae: Growth, Development and Glucosinolate Metabolism. Frontiers in Plant Science, 2017, 8, 1995.	3.6	93
132	Plant tropane alkaloid biosynthesis evolved independently in the Solanaceae and Erythroxylaceae. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10304-10309.	7.1	92
133	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.	7.1	92
134	A light-dependent molecular link between competition cues and defence responses in plants. Nature Plants, 2020, 6, 223-230.	9.3	92
135	Emission of Volatile Organic Compounds After Herbivory from Trifolium pratense (L.) Under Laboratory and Field Conditions. Journal of Chemical Ecology, 2009, 35, 1335-1348.	1.8	91
136	Characterization of seedâ€specific benzoyloxyglucosinolate mutations in <i>Arabidopsis thaliana</i> . Plant Journal, 2007, 51, 1062-1076.	5.7	90
137	ESP and ESM1 mediate indol-3-acetonitrile production from indol-3-ylmethyl glucosinolate in Arabidopsis. Phytochemistry, 2008, 69, 663-671.	2.9	90
138	From Amino Acid to Glucosinolate Biosynthesis: Protein Sequence Changes in the Evolution of Methylthioalkylmalate Synthase in <i>Arabidopsis</i> Â Â. Plant Cell, 2011, 23, 38-53.	6.6	90
139	Chemical convergence between plants and insects: biosynthetic origins and functions of common secondary metabolites. New Phytologist, 2019, 223, 52-67.	7.3	90
140	Protonation of a Neutral (S)-β-Bisabolene Intermediate Is Involved in (S)-β-Macrocarpene Formation by the Maize Sesquiterpene Synthases TPS6 and TPS11. Journal of Biological Chemistry, 2008, 283, 20779-20788.	3.4	89
141	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.	1.6	89
142	Two Arabidopsis Genes (IPMS1 and IPMS2) Encode Isopropylmalate Synthase, the Branchpoint Step in the Biosynthesis of Leucine. Plant Physiology, 2007, 143, 970-986.	4.8	88
143	Eyes on the future – evidence for tradeâ€offs between growth, storage and defense in Norway spruce. New Phytologist, 2019, 222, 144-158.	7.3	88
144	Reglucosylation of the Benzoxazinoid DIMBOA with Inversion of Stereochemical Configuration is a Detoxification Strategy in Lepidopteran Herbivores. Angewandte Chemie - International Edition, 2014, 53, 11320-11324.	13.8	87

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145	Biosynthesis of 8-O-methylated benzoxazinoid defense compounds in maize. Plant Cell, 2016, 28, tpc.00065.2016.	6.6	87
146	Terpene synthases and their contribution to herbivore-induced volatile emission in western balsam poplar (Populus trichocarpa). BMC Plant Biology, 2014, 14, 270.	3.6	86
147	Increased Terpenoid Accumulation in Cotton (Gossypium hirsutum) Foliage is a General Wound Response. Journal of Chemical Ecology, 2008, 34, 508-522.	1.8	83
148	The first step in the biosynthesis of cocaine in Erythroxylum coca: the characterization of arginine and ornithine decarboxylases. Plant Molecular Biology, 2012, 78, 599-615.	3.9	82
149	Both methylerythritol phosphate and mevalonate pathways contribute to biosynthesis of each of the major isoprenoid classes in young cotton seedlings. Phytochemistry, 2014, 98, 110-119.	2.9	82
150	Lack of rapid monoterpene turnover in rooted plants: implications for theories of plant chemical defense. Oecologia, 1991, 87, 373-376.	2.0	80
151	Molecular and biochemical evolution of maize terpene synthase 10, an enzyme of indirect defense. Phytochemistry, 2009, 70, 1139-1145.	2.9	80
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