

Dorothea Tholl

List of Publications by Year in descending order

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46
papers

7,728
citations

101543

36
h-index

233421

45
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46
all docs

46
docs citations

46
times ranked

8443
citing authors

#	ARTICLE	IF	CITATIONS
1	Exciting times in plant biotic interactions. <i>Plant Cell</i> , 2022, 34, 1421-1424.	6.6	3
2	Biosynthesis of terpene pheromones in hemiptera/stink bugs. , 2021, , 269-284.		2
3	Trends and applications in plant volatile sampling and analysis. <i>Plant Journal</i> , 2021, 106, 314-325.	5.7	83
4	Biosynthesis and Emission of Stress-Induced Volatile Terpenes in Roots and Leaves of Switchgrass (<i>Panicum virgatum</i> L.). <i>Frontiers in Plant Science</i> , 2019, 10, 1144.	3.6	44
5	Chemical convergence between plants and insects: biosynthetic origins and functions of common secondary metabolites. <i>New Phytologist</i> , 2019, 223, 52-67.	7.3	90
6	Carrot Volatile Terpene Metabolism: Terpene Diversity and Biosynthetic Genes. <i>Compendium of Plant Genomes</i> , 2019, , 279-293.	0.5	5
7	An IDS-Type Sesquiterpene Synthase Produces the Pheromone Precursor (Z)- β -Bisabolene in <i>Nezara viridula</i> . <i>Journal of Chemical Ecology</i> , 2019, 45, 187-197.	1.8	30
8	Covariation and phenotypic integration in chemical communication displays: biosynthetic constraints and eco-evolutionary implications. <i>New Phytologist</i> , 2018, 220, 739-749.	7.3	101
9	Functional Diversity of Diterpene Synthases in the Biofuel Crop Switchgrass. <i>Plant Physiology</i> , 2018, 178, 54-71.	4.8	44
10	De novo formation of an aggregation pheromone precursor by an isoprenyl diphosphate synthase-related terpene synthase in the harlequin bug. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8634-E8641.	7.1	43
11	Small molecules belowground: the role of specialized metabolites in the rhizosphere. <i>Plant Journal</i> , 2017, 90, 788-807.	5.7	193
12	Formation and exudation of non-volatile products of the arabidiol triterpenoid degradation pathway in <i>Arabidopsis</i> roots. <i>Plant Signaling and Behavior</i> , 2017, 12, e1265722.	2.4	20
13	A Transcriptome Survey Spanning Life Stages and Sexes of the Harlequin Bug, <i>Murgantia histrionica</i> . <i>Insects</i> , 2017, 8, 55.	2.2	20
14	Identification of a Dolabellane Type Diterpene Synthase and other Root-Expressed Diterpene Synthases in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1761.	3.6	24
15	The <i>Arabidopsis</i> vacuolar sugar transporter <i>SWEET2</i> limits carbon sequestration from roots and restricts <i>Pythium</i> infection. <i>Plant Journal</i> , 2015, 83, 1046-1058.	5.7	184
16	Biosynthesis and Biological Functions of Terpenoids in Plants. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015, 148, 63-106.	1.1	446
17	In Planta Variation of Volatile Biosynthesis: An Alternative Biosynthetic Route to the Formation of the Pathogen-Induced Volatile Homoterpene DMNT via Triterpene Degradation in <i>Arabidopsis</i> Roots. <i>Plant Cell</i> , 2015, 27, 874-890.	6.6	64
18	The flowering of a new scent pathway in rose. <i>Science</i> , 2015, 349, 28-29.	12.6	18

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19	Identification and Characterization of Terpene Synthases Potentially Involved in the Formation of Volatile Terpenes in Carrot (<i>Daucus carota</i> L.) Roots. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 4870-4878.	5.2	58
20	Small molecules: from structural diversity to signalling and regulatory roles. <i>Plant Journal</i> , 2014, 79, 541-543.	5.7	5
21	Volatile Organic Compound Mediated Interactions at the Plant-Microbe Interface. <i>Journal of Chemical Ecology</i> , 2013, 39, 810-825.	1.8	209
22	Formation of the Unusual Semivolatile Diterpene Rhizathalene by the <i>Arabidopsis</i> Class I Terpene Synthase TPS08 in the Root Stele Is Involved in Defense against Belowground Herbivory. <i>Plant Cell</i> , 2013, 25, 1108-1125.	6.6	123
23	Formation of Norisoprenoid Flavor Compounds in Carrot (<i>Daucus carota</i> L.) Roots: Characterization of a Cyclic-Specific Carotenoid Cleavage Dioxygenase 1 Gene. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 12244-12252.	5.2	43
24	Cyclophilin 20-3 relays a 12-oxo-phytodienoic acid signal during stress responsive regulation of cellular redox homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9559-9564.	7.1	193
25	A Regulatory Network for Coordinated Flower Maturation. <i>PLoS Genetics</i> , 2012, 8, e1002506.	3.5	204
26	The major volatile organic compound emitted from <i>Arabidopsis thaliana</i> flowers, the sesquiterpene ϵ -caryophyllene, is a defense against a bacterial pathogen. <i>New Phytologist</i> , 2012, 193, 997-1008.	7.3	408
27	Role of aromatic aldehyde synthase in wounding/herbivory response and flower scent production in different <i>Arabidopsis</i> ecotypes. <i>Plant Journal</i> , 2011, 66, 591-602.	5.7	56
28	The family of terpene synthases in plants: a mid-size family of genes for specialized metabolism that is highly diversified throughout the kingdom. <i>Plant Journal</i> , 2011, 66, 212-229.	5.7	1,068
29	The biochemistry of homoterpenes – Common constituents of floral and herbivore-induced plant volatile bouquets. <i>Phytochemistry</i> , 2011, 72, 1635-1646.	2.9	104
30	<i>cis</i> - and <i>trans</i> -Regulation of miR163 and Target Genes Confers Natural Variation of Secondary Metabolites in Two <i>Arabidopsis</i> Species and Their Allopolyploids. <i>Plant Cell</i> , 2011, 23, 1729-1740.	6.6	121
31	Terpene Specialized Metabolism in <i>Arabidopsis thaliana</i> . <i>The Arabidopsis Book</i> , 2011, 9, e0143.	0.5	170
32	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.	4.8	131
33	Herbivore-induced and floral homoterpene volatiles are biosynthesized by a single P450 enzyme (CYP82G1) in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21205-21210.	7.1	152
34	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.	3.2	43
35	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.	6.6	136
36	Practical approaches to plant volatile analysis. <i>Plant Journal</i> , 2006, 45, 540-560.	5.7	494

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37	Terpene synthases and the regulation, diversity and biological roles of terpene metabolism. <i>Current Opinion in Plant Biology</i> , 2006, 9, 297-304.	7.1	684
38	Two sesquiterpene synthases are responsible for the complex mixture of sesquiterpenes emitted from <i>Arabidopsis</i> flowers. <i>Plant Journal</i> , 2005, 42, 757-771.	5.7	314
39	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.	4.8	207
40	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.	6.6	162
41	An <i>Arabidopsis thaliana</i> gene for methylsalicylate biosynthesis, identified by a biochemical genomics approach, has a role in defense. <i>Plant Journal</i> , 2003, 36, 577-588.	5.7	278
42	Biosynthesis and Emission of Terpenoid Volatiles from <i>Arabidopsis</i> Flowers. <i>Plant Cell</i> , 2003, 15, 481-494.	6.6	381
43	Methyl Jasmonate Induces Traumatic Resin Ducts, Terpenoid Resin Biosynthesis, and Terpenoid Accumulation in Developing Xylem of Norway Spruce Stems. <i>Plant Physiology</i> , 2002, 129, 1003-1018.	4.8	462
44	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.	3.0	53
45	Homospermidine synthase of <i>Rhodopseudomonas viridis</i> : Substrate specificity and effects of the heterologously expressed enzyme on polyamine metabolism of <i>Escherichia coli</i> . <i>Journal of General and Applied Microbiology</i> , 1996, 42, 411-419.	0.7	17
46	Purification, Molecular Cloning and Expression in <i>Escherichia coli</i> of Homospermidine Synthase from <i>Rhodopseudomonas viridis</i> . <i>FEBS Journal</i> , 1996, 240, 373-379.	0.2	38