

Jörg Degenhardt

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

6,416
citations

117625

34
h-index

197818

49
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all docs

52
docs citations

52
times ranked

5368
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification and functional characterization of a δ^3 -terpinene synthase in <i>Nigella sativa</i> L (black) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	2.9	2
2	Characterization of terpene biosynthesis in <i>Melaleuca quinquenervia</i> and ecological consequences of terpene accumulation during myrtle rust infection. <i>Plant-Environment Interactions</i> , 2021, 2, 177-193.	1.5	2
3	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, .	7.1	44
4	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.	3.5	8
5	High marker density GWAS provides novel insights into the genomic architecture of terpene oil yield in <i>Eucalyptus</i> . <i>New Phytologist</i> , 2019, 223, 1489-1504.	7.3	27
6	The terpenes of leaves, pollen, and nectar of thyme (<i>Thymus vulgaris</i>) inhibit growth of bee disease-associated microbes. <i>Scientific Reports</i> , 2018, 8, 14634.	3.3	28
7	A maize landrace that emits defense volatiles in response to herbivore eggs possesses a strongly inducible terpene synthase gene. <i>Ecology and Evolution</i> , 2017, 7, 2835-2845.	1.9	25
8	Use of genotyping-by-sequencing to determine the genetic structure in the medicinal plant chamomile, and to identify flowering time and alpha-bisabolol associated SNP-loci by genome-wide association mapping. <i>BMC Genomics</i> , 2017, 18, 599.	2.8	29
9	Four terpene synthases contribute to the generation of chemotypes in tea tree (<i>Melaleuca</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	3.6	17
10	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.	6.6	105
11	A Tandem Array of <i>ent</i> -Kaurene Synthases in Maize with Roles in Gibberellin and More Specialized Metabolism. <i>Plant Physiology</i> , 2016, 170, 742-751.	4.8	81
12	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.	2.8	5
13	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.	4.1	13
14	A small, differentially regulated family of farnesyl diphosphate synthases in maize (<i>Zea mays</i>) provides farnesyl diphosphate for the biosynthesis of herbivore-induced sesquiterpenes. <i>Planta</i> , 2015, 241, 1351-1361.	3.2	37
15	The <i>Eucalyptus</i> terpene synthase gene family. <i>BMC Genomics</i> , 2015, 16, 450.	2.8	125
16	Stereochemical mechanism of two sabinene hydrate synthases forming antipodal monoterpenes in thyme (<i>Thymus vulgaris</i>). <i>Archives of Biochemistry and Biophysics</i> , 2013, 529, 112-121.	3.0	15
17	Genetically engineered maize plants reveal distinct costs and benefits of constitutive volatile emissions in the field. <i>Plant Biotechnology Journal</i> , 2013, 11, 628-639.	8.3	90
18	Genomic characterization, molecular cloning and expression analysis of two terpene synthases from <i>Thymus caespititius</i> (Lamiaceae). <i>Planta</i> , 2013, 238, 191-204.	3.2	41

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19	Mixtures of plant secondary metabolites. , 2012, , 56-77.		50
20	Isolation and characterization of terpene synthases potentially involved in flavor development of ripening olive (<i>Olea europaea</i>) fruits. <i>Journal of Plant Physiology</i> , 2012, 169, 908-914.	3.5	24
21	The organ-specific expression of terpene synthase genes contributes to the terpene hydrocarbon composition of chamomile essential oils. <i>BMC Plant Biology</i> , 2012, 12, 84.	3.6	66
22	Dynamic evolution of herbivore-induced sesquiterpene biosynthesis in sorghum and related grass crops. <i>Plant Journal</i> , 2012, 69, 70-80.	5.7	64
23	Two enzymes responsible for the formation of herbivore-induced volatiles of maize, the methyltransferase AAMT1 and the terpene synthase TPS23, are regulated by a similar signal transduction pathway. <i>Entomologia Experimentalis Et Applicata</i> , 2012, 144, 86-92.	1.4	6
24	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.	1.8	61
25	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.	3.9	141
26	Functional and evolutionary relationships between terpene synthases from Australian Myrtaceae. <i>Phytochemistry</i> , 2010, 71, 844-852.	2.9	59
27	The molecular basis of host plant selection in <i>Melaleuca quinquenervia</i> by a successful biological control agent. <i>Phytochemistry</i> , 2010, 71, 1237-1244.	2.9	38
28	Herbivore-Induced SABATH Methyltransferases of Maize That Methylate Anthranilic Acid Using S-Adenosyl-Methionine. <i>Plant Physiology</i> , 2010, 153, 1795-1807.	4.8	80
29	Restoring a maize root signal that attracts insect-killing nematodes to control a major pest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13213-13218.	7.1	298
30	Indirect Defense Responses to Herbivory in Grasses. <i>Plant Physiology</i> , 2009, 149, 96-102.	4.8	64
31	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.	3.5	52
32	Molecular and biochemical evolution of maize terpene synthase 10, an enzyme of indirect defense. <i>Phytochemistry</i> , 2009, 70, 1139-1145.	2.9	80
33	Monoterpene and sesquiterpene synthases and the origin of terpene skeletal diversity in plants. <i>Phytochemistry</i> , 2009, 70, 1621-1637.	2.9	891
34	The underestimated role of roots in defense against leaf attackers. <i>Trends in Plant Science</i> , 2009, 14, 653-659.	8.8	162
35	Identification and characterization of simple sequence repeat markers from a glandular <i>Origanum vulgare</i> expressed sequence tag. <i>Molecular Ecology Resources</i> , 2008, 8, 599-601.	4.8	37
36	Molecular and genomic basis of volatile-mediated indirect defense against insects in rice. <i>Plant Journal</i> , 2008, 55, 491-503.	5.7	163

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37	A Maize (<i>E</i>)- β -Caryophyllene Synthase Implicated in Indirect Defense Responses against Herbivores Is Not Expressed in Most American Maize Varieties. <i>Plant Cell</i> , 2008, 20, 482-494.	6.6	422
38	Protonation of a Neutral (S)- β -Bisabolene Intermediate Is Involved in (S)- β -Macrocarpene Formation by the Maize Sesquiterpene Synthases TPS6 and TPS11. <i>Journal of Biological Chemistry</i> , 2008, 283, 20779-20788.	3.4	89
39	Characterization of the Monoterpene Synthase Gene <i>tps26</i> , the Ortholog of a Gene Induced by Insect Herbivory in Maize. <i>Plant Physiology</i> , 2008, 146, 940-951.	4.8	36
40	Rational Conversion of Substrate and Product Specificity in a <i>Salvia</i> Monoterpene Synthase: Structural Insights into the Evolution of Terpene Synthase Function. <i>Plant Cell</i> , 2007, 19, 1994-2005.	6.6	204
41	Functional Expression and Characterization of Trichome-Specific (-)-Limonene Synthase and (+)- β -Pinene Synthase from <i>Cannabis sativa</i> . <i>Natural Product Communications</i> , 2007, 2, 1934578X0700200.	0.5	14
42	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.	3.0	51
43	The products of a single maize sesquiterpene synthase form a volatile defense signal that attracts natural enemies of maize herbivores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1129-1134.	7.1	491
44	Recruitment of entomopathogenic nematodes by insect-damaged maize roots. <i>Nature</i> , 2005, 434, 732-737.	27.8	1,099
45	Costs of induced volatile production in maize. <i>Oikos</i> , 2004, 105, 168-180.	2.7	65
46	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.	2.9	119
47	The Variability of Sesquiterpenes Emitted from Two <i>Zea mays</i> Cultivars Is Controlled by Allelic Variation of Two Terpene Synthase Genes Encoding Stereoselective Multiple Product Enzymes. <i>Plant Cell</i> , 2004, 16, 1115-1131.	6.6	206
48	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.	6.6	245
49	The Maize Gene <i>terpene synthase 1</i> Encodes a Sesquiterpene Synthase Catalyzing the Formation of (E)- β -Farnesene, (E)-Nerolidol, and (E,E)-Farnesol after Herbivore Damage. <i>Plant Physiology</i> , 2002, 130, 2049-2060.	4.8	226
50	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.	3.2	119