

Reuben J. Peters

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

153
papers

9,287
citations

51
h-index

92
g-index

169
ext. papers

11,363
ext. citations

7.9
avg, IF

6.27
L-index

#	Paper	IF	Citations
153	Tanshinones: Leading the way into Lamiaceae labdane-related diterpenoid biosynthesis.. <i>Current Opinion in Plant Biology</i> , 2022 , 66, 102189	9.9	0
152	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	11.5	0
151	Production of the plant hormone gibberellin by rhizobia increases host legume nodule size.. <i>ISME Journal</i> , 2022 ,	11.9	2
150	Mining of the Genome Leads to Identification of a Biosynthetic Gene Cluster for Fungicidal Sesquiterpenes. <i>Journal of Natural Products</i> , 2021 , 84, 2709-2716	4.9	0
149	Dissecting the labdane-related diterpenoid biosynthetic gene clusters in rice reveals directional cross-cluster phytotoxicity. <i>New Phytologist</i> , 2021 ,	9.8	2
148	Interdependent evolution of biosynthetic gene clusters for momilactone production in rice. <i>Plant Cell</i> , 2021 , 33, 290-305	11.6	14
147	A pair of threonines mark ent-kaurene synthases for phytohormone biosynthesis. <i>Phytochemistry</i> , 2021 , 184, 112672	4	3
146	Rice contains a biosynthetic gene cluster associated with production of the casbane-type diterpenoid phytoalexin ent-10-oxodepressin. <i>New Phytologist</i> , 2021 , 231, 85-93	9.8	5
145	A (conditional) role for labdane-related diterpenoid natural products in rice stomatal closure. <i>New Phytologist</i> , 2021 , 230, 698-709	9.8	7
144	Expansion within the CYP71D subfamily drives the heterocyclization of tanshinones synthesis in <i>Salvia miltiorrhiza</i> . <i>Nature Communications</i> , 2021 , 12, 685	17.4	23
143	Why are momilactones always associated with biosynthetic gene clusters in plants?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13867-13869	11.5	10
142	Doing the gene shuffle to close synteny: dynamic assembly of biosynthetic gene clusters. <i>New Phytologist</i> , 2020 , 227, 992-994	9.8	9
141	Oil Body Formation in <i>Marchantia polymorpha</i> Is Controlled by MpC1HDZ and Serves as a Defense against Arthropod Herbivores. <i>Current Biology</i> , 2020 , 30, 2815-2828.e8	6.3	20
140	Probing Enzymatic Structure and Function in the Dihydroxylating Sesquiterpene Synthase ZmEDS. <i>Biochemistry</i> , 2020 , 59, 2660-2666	3.2	0
139	The honeysuckle genome provides insight into the molecular mechanism of carotenoid metabolism underlying dynamic flower coloration. <i>New Phytologist</i> , 2020 , 227, 930-943	9.8	24
138	Unraveling a Tangled Skein: Evolutionary Analysis of the Bacterial Gibberellin Biosynthetic Operon. <i>MSphere</i> , 2020 , 5,	5	4
137	Genome of <i>Tripterygium wilfordii</i> and identification of cytochrome P450 involved in triptolide biosynthesis. <i>Nature Communications</i> , 2020 , 11, 971	17.4	43

136	Introducing selective agrochemical manipulation of gibberellin metabolism into a cereal crop. <i>Nature Plants</i> , 2020 , 6, 67-72	11.5	6
135	Magnesium-specific ring expansion/contraction catalysed by the class II diterpene cyclase from pleuromutilin biosynthesis. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 5586-5588	3.9	2
134	Switching on a Nontraditional Enzymatic Base - Deprotonation by Serine in the -Kaurene Synthase from. <i>ACS Catalysis</i> , 2019 , 9, 8867-8871	13.1	7
133	Combinatorial biosynthesis and the basis for substrate promiscuity in class I diterpene synthases. <i>Metabolic Engineering</i> , 2019 , 55, 44-58	9.7	7
132	Identification of RoCYP01 (CYP716A155) enables construction of engineered yeast for high-yield production of betulinic acid. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 7029-7039	5.7	19
131	Conserved bases for the initial cyclase in gibberellin biosynthesis: from bacteria to plants. <i>Biochemical Journal</i> , 2019 , 476, 2607-2621	3.8	10
130	CYP72A enzymes catalyse 13-hydrolyzation of gibberellins. <i>Nature Plants</i> , 2019 , 5, 1057-1065	11.5	28
129	The genome of the medicinal plant <i>Andrographis paniculata</i> provides insight into the biosynthesis of the bioactive diterpenoid neoandrographolide. <i>Plant Journal</i> , 2019 , 97, 841-857	6.9	37
128	Isoprenyl diphosphate synthases: the chain length determining step in terpene biosynthesis. <i>Planta</i> , 2019 , 249, 9-20	4.7	14
127	Changing Face: A Key Residue for the Addition of Water by Sclareol Synthase. <i>ACS Catalysis</i> , 2018 , 8, 3133-3137	13.1	9
126	Diverging Mechanisms: Cytochrome-P450-Catalyzed Demethylation and Lactone Formation in Bacterial Gibberellin Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6082-6085	16.4	10
125	Inferring Roles in Defense from Metabolic Allocation of Rice Diterpenoids. <i>Plant Cell</i> , 2018 , 30, 1119-1131	11.6	30
124	Direct production of dihydroxylated sesquiterpenoids by a maize terpene synthase. <i>Plant Journal</i> , 2018 , 94, 847-856	6.9	19
123	Premutilin Synthase: Ring Rearrangement by a Class II Diterpene Cyclase. <i>Organic Letters</i> , 2018 , 20, 12006-12007	12.0	14
122	Diverging Mechanisms: Cytochrome-P450-Catalyzed Demethylation and Lactone Formation in Bacterial Gibberellin Biosynthesis. <i>Angewandte Chemie</i> , 2018 , 130, 6190-6193	3.6	1
121	Identification and functional characterization of diterpene synthases for triptolide biosynthesis from <i>Tripterygium wilfordii</i> . <i>Plant Journal</i> , 2018 , 93, 50-65	6.9	36
120	Probing the specificity of CYP112 in bacterial gibberellin biosynthesis. <i>Biochemical Journal</i> , 2018 , 475, 2167-2177	3.8	2
119	A Third Class: Functional Gibberellin Biosynthetic Operon in Beta-Proteobacteria. <i>Frontiers in Microbiology</i> , 2018 , 9, 2916	5.7	13

118	Arginine in the FARM and SARM: A Role in Chain-Length Determination for Arginine in the Aspartate-Rich Motifs of Isoprenyl Diphosphate Synthases from. <i>Molecules</i> , 2018 , 23,	4.8	3
117	Terpenoid Secondary Metabolites in Bryophytes: Chemical Diversity, Biosynthesis and Biological Functions. <i>Critical Reviews in Plant Sciences</i> , 2018 , 37, 210-231	5.6	33
116	Catalytic Bases and Stereocontrol in Lamiaceae Class II Diterpene Cyclases. <i>Biochemistry</i> , 2018 , 57, 3473-3479	3.4	9
115	Probing Labdane-Related Diterpenoid Biosynthesis in the Fungal Genus <i>Aspergillus</i> . <i>Journal of Natural Products</i> , 2017 , 80, 328-333	4.9	16
114	Characterization of CYP115 As a Gibberellin 3-Oxidase Indicates That Certain Rhizobia Can Produce Bioactive Gibberellin A. <i>ACS Chemical Biology</i> , 2017 , 12, 912-917	4.9	20
113	An operon for production of bioactive gibberellin A phytohormone with wide distribution in the bacterial rice leaf streak pathogen <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> . <i>New Phytologist</i> , 2017 , 214, 1260-1266	9.8	17
112	A Pair of Residues That Interactively Affect Diterpene Synthase Product Outcome. <i>ACS Chemical Biology</i> , 2017 , 12, 862-867	4.9	17
111	cis or trans with class II diterpene cyclases. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 3158-3160	3.9	12
110	Investigating the Phylogenetic Range of Gibberellin Biosynthesis in Bacteria. <i>Molecular Plant-Microbe Interactions</i> , 2017 , 30, 343-349	3.6	16
109	Insights into Land Plant Evolution Garnered from the <i>Marchantia polymorpha</i> Genome. <i>Cell</i> , 2017 , 171, 287-304.e15	56.2	538
108	O labeling experiments illuminate the oxidation of ent-kaurene in bacterial gibberellin biosynthesis. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 7566-7571	3.9	7
107	Biosynthesis of Diterpenoids in Adventitious Root Cultures. <i>Plant Physiology</i> , 2017 , 175, 92-103	6.6	22
106	Elucidation of gibberellin biosynthesis in bacteria reveals convergent evolution. <i>Nature Chemical Biology</i> , 2017 , 13, 69-74	11.7	68
105	Labeling Studies Clarify the Committed Step in Bacterial Gibberellin Biosynthesis. <i>Organic Letters</i> , 2016 , 18, 5974-5977	6.2	11
104	Analysis of the Genome Sequence of the Medicinal Plant <i>Salvia miltiorrhiza</i> . <i>Molecular Plant</i> , 2016 , 9, 949-52	14.4	173
103	Probing the promiscuity of ent-kaurene oxidases via combinatorial biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 2526-31	11.5	39
102	Product Rearrangement from Altering a Single Residue in the Rice syn-Copalyl Diphosphate Synthase. <i>Organic Letters</i> , 2016 , 18, 1060-3	6.2	24
101	A Tandem Array of ent-Kaurene Synthases in Maize with Roles in Gibberellin and More Specialized Metabolism. <i>Plant Physiology</i> , 2016 , 170, 742-51	6.6	46

100	Characterization of CYP71Z18 indicates a role in maize zealexin biosynthesis. <i>Phytochemistry</i> , 2016 , 121, 4-10	4	33
99	Identification of a Dolabellane Type Diterpene Synthase and other Root-Expressed Diterpene Synthases in. <i>Frontiers in Plant Science</i> , 2016 , 7, 1761	6.2	17
98	Extending a Single Residue Switch for Abbreviating Catalysis in Plant -Kaurene Synthases. <i>Frontiers in Plant Science</i> , 2016 , 7, 1765	6.2	16
97	Investigating inducible short-chain alcohol dehydrogenases/reductases clarifies rice oryzalexin biosynthesis. <i>Plant Journal</i> , 2016 , 88, 271-279	6.9	18
96	Blocking Deprotonation with Retention of Aromaticity in a Plant ent-Copalyl Diphosphate Synthase Leads to Product Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 634-8	16.4	38
95	Blocking Deprotonation with Retention of Aromaticity in a Plant ent-Copalyl Diphosphate Synthase Leads to Product Rearrangement. <i>Angewandte Chemie</i> , 2016 , 128, 644-648	3.6	9
94	Cytochrome P450 promiscuity leads to a bifurcating biosynthetic pathway for tanshinones. <i>New Phytologist</i> , 2016 , 210, 525-34	9.8	107
93	Extreme promiscuity of a bacterial and a plant diterpene synthase enables combinatorial biosynthesis. <i>Metabolic Engineering</i> , 2016 , 37, 24-34	9.7	40
92	Microbial-type terpene synthase genes occur widely in nonseed land plants, but not in seed plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12328-12333	11.5	48
91	Molecular Diversity of Terpene Synthases in the Liverwort <i>Marchantia polymorpha</i> . <i>Plant Cell</i> , 2016 , 28, 2632-2650	11.6	36
90	Optimization of recombinant expression enables discovery of novel cytochrome P450 activity in rice diterpenoid biosynthesis. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 7549-58	5.7	28
89	Efficient heterocyclisation by (di)terpene synthases. <i>Chemical Communications</i> , 2015 , 51, 13485-7	5.8	24
88	Functional Divergence of Diterpene Synthases in the Medicinal Plant <i>Salvia miltiorrhiza</i> . <i>Plant Physiology</i> , 2015 , 169, 1607-18	6.6	84
87	Full-length transcriptome sequences and splice variants obtained by a combination of sequencing platforms applied to different root tissues of <i>Salvia miltiorrhiza</i> and tanshinone biosynthesis. <i>Plant Journal</i> , 2015 , 82, 951-961	6.9	233
86	An ent-kaurene-derived diterpenoid virulence factor from <i>Xanthomonas oryzae</i> pv. <i>bryzicola</i> . <i>New Phytologist</i> , 2015 , 206, 295-302	9.8	21
85	Biosynthesis of the diterpenoid lycosantalanol via nerylneryl diphosphate in <i>Solanum lycopersicum</i> . <i>PLoS ONE</i> , 2015 , 10, e0119302	3.7	29
84	Investigation of the Chemical Interface in the Soybean-Aphid and Rice-Bacteria Interactions Using MALDI-Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2015 , 87, 5294-301	7.8	46
83	The application of synthetic biology to elucidation of plant mono-, sesqui-, and diterpenoid metabolism. <i>Molecular Plant</i> , 2015 , 8, 6-16	14.4	63

82	Investigation of terpene diversification across multiple sequenced plant genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E81-8	11.5	177
81	Combining metabolomics and transcriptomics to characterize tanshinone biosynthesis in <i>Salvia miltiorrhiza</i> . <i>BMC Genomics</i> , 2014 , 15, 73	4.5	131
80	Biosynthesis, elicitation and roles of monocot terpenoid phytoalexins. <i>Plant Journal</i> , 2014 , 79, 659-78	6.9	151
79	Characterization of an orphan diterpenoid biosynthetic operon from <i>Salinispora arenicola</i> . <i>Journal of Natural Products</i> , 2014 , 77, 2144-7	4.9	21
78	Functional conservation of the capacity for ent-kaurene biosynthesis and an associated operon in certain rhizobia. <i>Journal of Bacteriology</i> , 2014 , 196, 100-6	3.5	37
77	Novel product chemistry from mechanistic analysis of ent-copalyl diphosphate synthases from plant hormone biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7198-202	16.4	45
76	To gibberellins and beyond! Surveying the evolution of (di)terpenoid metabolism. <i>Annual Review of Plant Biology</i> , 2014 , 65, 259-86	30.7	168
75	1.55Å-resolution structure of ent-copalyl diphosphate synthase and exploration of general acid function by site-directed mutagenesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 184-90	4	40
74	Biochemical characterization of the castor bean ent-kaurene synthase(-like) family supports quantum chemical view of diterpene cyclization. <i>Phytochemistry</i> , 2014 , 103, 13-21	4	20
73	Novel Product Chemistry from Mechanistic Analysis of ent-Copalyl Diphosphate Synthases from Plant Hormone Biosynthesis. <i>Angewandte Chemie</i> , 2014 , 126, 7326-7330	3.6	5
72	Biosynthesis of lycosantalanol, a cis-prenyl derived diterpenoid. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16951-3	16.4	32
71	CYP76AH1 catalyzes turnover of miltiradiene in tanshinones biosynthesis and enables heterologous production of ferruginol in yeasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12108-13	11.5	238
70	Characterization of CYP76AH4 clarifies phenolic diterpenoid biosynthesis in the Lamiaceae. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 7650-2	3.9	68
69	The role of momilactones in rice allelopathy. <i>Journal of Chemical Ecology</i> , 2013 , 39, 175-85	2.7	83
68	Picking sides: distinct roles for CYP76M6 and CYP76M8 in rice oryzalexin biosynthesis. <i>Biochemical Journal</i> , 2013 , 454, 209-16	3.8	36
67	A single residue change leads to a hydroxylated product from the class II diterpene cyclization catalyzed by abietadiene synthase. <i>Organic Letters</i> , 2012 , 14, 5828-31	6.2	41
66	Isotuberculosinol: the unusual case of an immunomodulatory diterpenoid from. <i>MedChemComm</i> , 2012 , 3, 899-904	5	14
65	Functional characterization of wheat ent-kaurene(-like) synthases indicates continuing evolution of labdane-related diterpenoid metabolism in the cereals. <i>Phytochemistry</i> , 2012 , 84, 47-55	4	45

64	Functional characterization of wheat copalyl diphosphate synthases sheds light on the early evolution of labdane-related diterpenoid metabolism in the cereals. <i>Phytochemistry</i> , 2012 , 84, 40-6	4	49
63	Effect of isotopically sensitive branching on product distribution for pentalenene synthase: support for a mechanism predicted by quantum chemistry. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11369-71	16.4	75
62	Terpenoid synthase structures: a so far incomplete view of complex catalysis. <i>Natural Product Reports</i> , 2012 , 29, 1153-75	15.1	236
61	Functional characterization and evolution of the isotuberculosinol operon in <i>Mycobacterium tuberculosis</i> and related <i>Mycobacteria</i> . <i>Frontiers in Microbiology</i> , 2012 , 3, 368	5.7	17
60	Genetic evidence for natural product-mediated plant-plant allelopathy in rice (<i>Oryza sativa</i>). <i>New Phytologist</i> , 2012 , 193, 570-575	9.8	117
59	CYP701A8: a rice ent-kaurene oxidase paralog diverted to more specialized diterpenoid metabolism. <i>Plant Physiology</i> , 2012 , 158, 1418-25	6.6	86
58	Characterization of CYP76M5-8 indicates metabolic plasticity within a plant biosynthetic gene cluster. <i>Journal of Biological Chemistry</i> , 2012 , 287, 6159-68	5.4	89
57	Insights into diterpene cyclization from structure of bifunctional abietadiene synthase from <i>Abies grandis</i> . <i>Journal of Biological Chemistry</i> , 2012 , 287, 6840-50	5.4	72
56	Isotuberculosinol: An immunomodulatory diterpenoid from <i>Mycobacterium tuberculosis</i> . <i>FASEB Journal</i> , 2012 , 26, 800.2	0.9	
55	To Gibberellins and Beyond! Insights into the Evolution of Diterpenoid Metabolism. <i>FASEB Journal</i> , 2012 , 26, 576.1	0.9	
54	Gibberellin Phytohormone Metabolism 2012 , 233-249		1
53	The <i>Selaginella</i> genome identifies genetic changes associated with the evolution of vascular plants. <i>Science</i> , 2011 , 332, 960-3	33.3	622
52	Evident and latent plasticity across the rice diterpene synthase family with potential implications for the evolution of diterpenoid metabolism in the cereals. <i>Biochemical Journal</i> , 2011 , 435, 589-95	3.8	40
51	CYP99A3: functional identification of a diterpene oxidase from the momilactone biosynthetic gene cluster in rice. <i>Plant Journal</i> , 2011 , 65, 87-95	6.9	83
50	Domain loss has independently occurred multiple times in plant terpene synthase evolution. <i>Plant Journal</i> , 2011 , 68, 1051-60	6.9	58
49	Magnesium depletion triggers production of an immune modulating diterpenoid in <i>Mycobacterium tuberculosis</i> . <i>Molecular Microbiology</i> , 2011 , 79, 1594-601	4.1	12
48	Structure and mechanism of the diterpene cyclase ent-copalyl diphosphate synthase. <i>Nature Chemical Biology</i> , 2011 , 7, 431-3	11.7	125
47	Rv0989c encodes a novel (E)-geranyl diphosphate synthase facilitating decaprenyl diphosphate biosynthesis in <i>Mycobacterium tuberculosis</i> . <i>FEBS Letters</i> , 2011 , 585, 549-54	3.8	12

46	Parsing a multifunctional biosynthetic gene cluster from rice: Biochemical characterization of CYP71Z6 & 7. <i>FEBS Letters</i> , 2011 , 585, 3446-51	3.8	59
45	Diterpenoid biopolymers: new directions for renewable materials engineering. <i>Biopolymers</i> , 2011 , 95, 71-6	2.2	11
44	A novel labda-7,13e-dien-15-ol-producing bifunctional diterpene synthase from <i>Selaginella moellendorffii</i> . <i>ChemBioChem</i> , 2011 , 12, 1984-7	3.8	41
43	Electrostatic effects on (di)terpene synthase product outcome. <i>Chemical Communications</i> , 2011 , 47, 4074-80	3.8	42
42	Characterization of the kaurene oxidase CYP701A3, a multifunctional cytochrome P450 from gibberellin biosynthesis. <i>Biochemical Journal</i> , 2010 , 431, 337-44	3.8	74
41	A single residue switch for Mg(2+)-dependent inhibition characterizes plant class II diterpene cyclases from primary and secondary metabolism. <i>Journal of Biological Chemistry</i> , 2010 , 285, 20558-63	5.4	27
40	Synthesis of (+/-)-nosyberkol (isotuberculosinol, revised structure of edaxadiene) and (+/-)-tuberculosinol. <i>Organic Letters</i> , 2010 , 12, 2626-9	6.2	28
39	Two rings in them all: the labdane-related diterpenoids. <i>Natural Product Reports</i> , 2010 , 27, 1521-30	15.1	281
38	Increasing diterpene yield with a modular metabolic engineering system in <i>E. coli</i> : comparison of MEV and MEP isoprenoid precursor pathway engineering. <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 1893-906	5.7	151
37	Diterpene cyclases and the nature of the isoprene fold. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 2417-32	4.2	93
36	Characterization and inhibition of a class II diterpene cyclase from <i>Mycobacterium tuberculosis</i> : implications for tuberculosis. <i>Journal of Biological Chemistry</i> , 2009 , 284, 23574-9	5.4	34
35	CYP76M7 is an ent-cassadiene C11alpha-hydroxylase defining a second multifunctional diterpenoid biosynthetic gene cluster in rice. <i>Plant Cell</i> , 2009 , 21, 3315-25	11.6	167
34	Gibberellin biosynthesis in bacteria: separate ent-copalyl diphosphate and ent-kaurene synthases in <i>Bradyrhizobium japonicum</i> . <i>FEBS Letters</i> , 2009 , 583, 475-80	3.8	128
33	Investigating the conservation pattern of a putative second terpene synthase divalent metal binding motif in plants. <i>Phytochemistry</i> , 2009 , 70, 366-9	4	35
32	A functional genomics approach to tanshinone biosynthesis provides stereochemical insights. <i>Organic Letters</i> , 2009 , 11, 5170-3	6.2	191
31	Edaxadiene: a new bioactive diterpene from <i>Mycobacterium tuberculosis</i> . <i>Journal of the American Chemical Society</i> , 2009 , 131, 17526-7	16.4	49
30	Increasing complexity of a diterpene synthase reaction with a single residue switch. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5400-1	16.4	59
29	A single residue switch converts abietadiene synthase into a pimaradiene specific cyclase. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15736-7	16.4	68

28	16-Aza-ent-beyerane and 16-Aza-ent-trachylobane: potent mechanism-based inhibitors of recombinant ent-kaurene synthase from <i>Arabidopsis thaliana</i> . <i>Journal of the American Chemical Society</i> , 2007 , 129, 12453-60	16.4	77
27	Probing the role of the DXDD motif in Class II diterpene cyclases. <i>ChemBioChem</i> , 2007 , 8, 869-74	3.8	71
26	Functional characterization of the rice kaurene synthase-like gene family. <i>Phytochemistry</i> , 2007 , 68, 312-26	10.4	104
25	Following evolution lead to a single residue switch for diterpene synthase product outcome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 7397-401	11.5	125
24	Synergistic substrate inhibition of ent-copalyl diphosphate synthase: a potential feed-forward inhibition mechanism limiting gibberellin metabolism. <i>Plant Physiology</i> , 2007 , 144, 445-54	6.6	54
23	A modular approach for facile biosynthesis of labdane-related diterpenes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6684-5	16.4	125
22	An unexpected diterpene cyclase from rice: functional identification of a stemodene synthase. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 448, 133-40	4.1	37
21	Uncovering the complex metabolic network underlying diterpenoid phytoalexin biosynthesis in rice and other cereal crop plants. <i>Phytochemistry</i> , 2006 , 67, 2307-17	4	156
20	The maize An2 gene is induced by <i>Fusarium</i> attack and encodes an ent-copalyl diphosphate synthase. <i>Plant Molecular Biology</i> , 2005 , 59, 881-94	4.6	100
19	Identification of syn-pimara-7,15-diene synthase reveals functional clustering of terpene synthases involved in rice phytoalexin/allelochemical biosynthesis. <i>Plant Physiology</i> , 2004 , 135, 2098-105	6.6	172
18	Functional identification of rice syn-copalyl diphosphate synthase and its role in initiating biosynthesis of diterpenoid phytoalexin/allelopathic natural products. <i>Plant Journal</i> , 2004 , 39, 309-18	6.9	120
17	Rice contains two disparate ent-copalyl diphosphate synthases with distinct metabolic functions. <i>Plant Physiology</i> , 2004 , 136, 4228-36	6.6	137
16	Monoterpene biosynthesis pathway construction in <i>Escherichia coli</i> . <i>Phytochemistry</i> , 2003 , 64, 425-33	4	128
15	Bifunctional abietadiene synthase: mutual structural dependence of the active sites for protonation-initiated and ionization-initiated cyclizations. <i>Biochemistry</i> , 2003 , 42, 2700-7	3.2	50
14	Alternative termination chemistries utilized by monoterpene cyclases: chimeric analysis of bornyl diphosphate, 1,8-cineole, and sabinene synthases. <i>Archives of Biochemistry and Biophysics</i> , 2003 , 417, 203-11	4.1	38
13	A surveillance system regulates selective entry of RNA into the shoot apex. <i>Plant Cell</i> , 2002 , 14, 1497-508	1.6	146
12	Mechanism of abietadiene synthase catalysis: stereochemistry and stabilization of the cryptic pimarenyl carbocation intermediates. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6998-7006	16.4	44
11	Abietadiene synthase catalysis: conserved residues involved in protonation-initiated cyclization of geranylgeranyl diphosphate to (+)-copalyl diphosphate. <i>Biochemistry</i> , 2002 , 41, 1836-42	3.2	57

10	Abietadiene synthase catalysis: mutational analysis of a prenyl diphosphate ionization-initiated cyclization and rearrangement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 580-4	11.5	50
9	The solution structure of the viral binding domain of Tva, the cellular receptor for subgroup A avian leukosis and sarcoma virus. <i>FEBS Letters</i> , 2001 , 509, 161-8	3.8	26
8	Bifunctional abietadiene synthase: free diffusive transfer of the (+)-copalyl diphosphate intermediate between two distinct active sites. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8974-8	16.4	101
7	Abietadiene synthase from grand fir (<i>Abies grandis</i>): characterization and mechanism of action of the "pseudomature" recombinant enzyme. <i>Biochemistry</i> , 2000 , 39, 15592-602	3.2	106
6	Stereochemistry of the cyclization-rearrangement of (+)-copalyl diphosphate to (-)-abietadiene catalyzed by recombinant abietadiene synthase from <i>Abies grandis</i> . <i>Organic Letters</i> , 2000 , 2, 573-6	6.2	40
5	alpha-lytic protease precursor: characterization of a structured folding intermediate. <i>Biochemistry</i> , 1999 , 38, 4728-35	3.2	29
4	Pro region C-terminus:protease active site interactions are critical in catalyzing the folding of alpha-lytic protease. <i>Biochemistry</i> , 1998 , 37, 12058-67	3.2	50
3	Activation of a retroviral membrane fusion protein: soluble receptor-induced liposome binding of the ALSV envelope glycoprotein. <i>Journal of Cell Biology</i> , 1997 , 139, 1455-64	7.3	112
2	Identification and characterization of the viral interaction determinant of the subgroup A avian leukosis virus receptor. <i>Journal of Virology</i> , 1995 , 69, 4261-6	6.6	45
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