# Reuben J. Peters

## List of Publications by Year in descending order



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|---|---|---|---|
| 155 papers | 12,687 citations | 27035 58 h-index | 31191 106 g-index |
| 169 all docs | 169 docs citations | 169 times ranked | 9259 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Insights into Land Plant Evolution Garnered from the Marchantia polymorpha Genome. Cell, 2017, 171, 287-304.e15. | 13.5 | 973 |
| 2 | The Selaginella Genome Identifies Genetic Changes Associated with the Evolution of Vascular Plants. Science, 2011, 332, 960-963. | 6.0 | 794 |
| 3 | Two rings in them all: The labdane-related diterpenoids. Natural Product Reports, 2010, 27, 1521. | 5.2 | 354 |
| 4 | Fullâ€length transcriptome sequences and splice variants obtained by a combination of sequencing platforms applied to different root tissues of <scp>S</scp>alvia miltiorrhiza and tanshinone biosynthesis. Plant Journal, 2015, 82, 951-961. | 2.8 | 337 |
| 5 | CYP76AH1 catalyzes turnover of miltiradiene in tanshinones biosynthesis and enables heterologous production of ferruginol in yeasts. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12108-12113. | 3.3 | 326 |
| 6 | Terpenoid synthase structures: a so far incomplete view of complex catalysis. Natural Product Reports, 2012, 29, 1153. | 5.2 | 311 |
| 7 | Analysis of the Genome Sequence of the Medicinal Plant Salvia miltiorrhiza. Molecular Plant, 2016, 9, 949-952. | 3.9 | 255 |
| 8 | A Functional Genomics Approach to Tanshinone Biosynthesis Provides Stereochemical Insights. Organic Letters, 2009, 11, 5170-5173. | 2.4 | 250 |
| 9 | Biosynthesis, elicitation and roles of monocot terpenoid phytoalexins. Plant Journal, 2014, 79, 659-678. | 2.8 | 233 |
| 10 | To Gibberellins and Beyond! Surveying the Evolution of (Di)Terpenoid Metabolism. Annual Review of Plant Biology, 2014, 65, 259-286. | 8.6 | 228 |
| 11 | Investigation of terpene diversification across multiple sequenced plant genomes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E81-8. | 3.3 | 226 |
| 12 | CYP76M7 Is an ent-Cassadiene C11Î±-Hydroxylase Defining a Second Multifunctional Diterpenoid Biosynthetic Gene Cluster in Rice Â. Plant Cell, 2009, 21, 3315-3325. | 3.1 | 199 |
| 13 | Identification of Syn-Pimara-7,15-Diene Synthase Reveals Functional Clustering of Terpene Synthases Involved in Rice Phytoalexin/Allelochemical Biosynthesis. Plant Physiology, 2004, 135, 2098-2105. | 2.3 | 195 |
| 14 | Uncovering the complex metabolic network underlying diterpenoid phytoalexin biosynthesis in rice and other cereal crop plants. Phytochemistry, 2006, 67, 2307-2317. | 1.4 | 187 |
| 15 | Increasing diterpene yield with a modular metabolic engineering system in E. coli: comparison of MEV and MEP isoprenoid precursor pathway engineering. Applied Microbiology and Biotechnology, 2010, 85, 1893-1906. | 1.7 | 183 |
| 16 | Cytochrome P450 promiscuity leads to a bifurcating biosynthetic pathway for tanshinones. New Phytologist, 2016, 210, 525-534. | 3.5 | 183 |
| 17 | Rice Contains Two Disparate ent-Copalyl Diphosphate Synthases with Distinct Metabolic Functions. Plant Physiology, 2004, 136, 4228-4236. | 2.3 | 170 |
| 18 | Structure and mechanism of the diterpene cyclase ent-copalyl diphosphate synthase. Nature Chemical Biology, 2011, 7, 431-433. | 3.9 | 166 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Combining metabolomics and transcriptomics to characterize tanshinone biosynthesis in Salvia miltiorrhiza. BMC Genomics, 2014, 15, 73. | 1.2 | 165 |
| 20 | A Surveillance System Regulates Selective Entry of RNA into the Shoot Apex. Plant Cell, 2002, 14, 1497-1508. | 3.1 | 162 |
| 21 | Functional identification of ricesyn-copalyl diphosphate synthase and its role in initiating biosynthesis of diterpenoid phytoalexin/allelopathic natural products. Plant Journal, 2004, 39, 309-318. | 2.8 | 152 |
| 22 | Gibberellin biosynthesis in bacteria: Separate entâ€copalyl diphosphate and entâ€kaurene synthases in Bradyrhizobium japonicum. FEBS Letters, 2009, 583, 475-480. | 1.3 | 152 |
| 23 | Following evolution's lead to a single residue switch for diterpene synthase product outcome. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7397-7401. | 3.3 | 150 |
| 24 | Genetic evidence for natural productâ€mediated plantâ€“plant allelopathy in rice (Oryza sativa). New Phytologist, 2012, 193, 570-575. | 3.5 | 146 |
| 25 | A Modular Approach for Facile Biosynthesis of Labdane-Related Diterpenes. Journal of the American Chemical Society, 2007, 129, 6684-6685. | 6.6 | 144 |
| 26 | Monoterpene biosynthesis pathway construction in Escherichia coli. Phytochemistry, 2003, 64, 425-433. | 1.4 | 143 |
| 27 | Diterpene cyclases and the nature of the isoprene fold. Proteins: Structure, Function and Bioinformatics, 2010, 78, 2417-2432. | 1.5 | 131 |
| 28 | Functional characterization of the rice kaurene synthase-like gene family. Phytochemistry, 2007, 68, 312-326. | 1.4 | 124 |
| 29 | Activation of a Retroviral Membrane Fusion Protein: Soluble Receptor-induced Liposome Binding of the ALSV Envelope Glycoprotein. Journal of Cell Biology, 1997, 139, 1455-1464. | 2.3 | 123 |
| 30 | The Maize An2 Gene is Induced by Fusarium Attack and Encodes an ent-Copalyl Diphosphate Synthase. Plant Molecular Biology, 2005, 59, 881-894. | 2.0 | 123 |
| 31 | Functional divergence of diterpene syntheses in the medicinal plant Salvia miltiorrhiza Bunge. Plant Physiology, 2015, 169, pp.00695.2015. | 2.3 | 118 |
| 32 | Bifunctional Abietadiene Synthase:Â Free Diffusive Transfer of the (+)-Copalyl Diphosphate Intermediate between Two Distinct Active Sites. Journal of the American Chemical Society, 2001, 123, 8974-8978. | 6.6 | 116 |
| 33 | Characterization of CYP76M5â€“8 Indicates Metabolic Plasticity within a Plant Biosynthetic Gene Cluster. Journal of Biological Chemistry, 2012, 287, 6159-6168. | 1.6 | 116 |
| 34 | Abietadiene Synthase from Grand Fir (Abies grandis):Â Characterization and Mechanism of Action of the â€œPseudomatureâ€•Recombinant Enzymeâ€. Biochemistry, 2000, 39, 15592-15602. | 1.2 | 114 |
| 35 | The Role of Momilactones in Rice Allelopathy. Journal of Chemical Ecology, 2013, 39, 175-185. | 0.9 | 112 |
| 36 | CYP701A8: A Rice ent-Kaurene Oxidase Paralog Diverted to More Specialized Diterpenoid Metabolism Â Â. Plant Physiology, 2012, 158, 1418-1425. | 2.3 | 109 |

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|---|---|---|---|
| 37 | Elucidation of gibberellin biosynthesis in bacteria reveals convergent evolution. Nature Chemical Biology, 2017, 13, 69-74. | 3.9 | 103 |
| 38 | Genome of Tripterygium wilfordii and identification of cytochrome P450 involved in triptolide biosynthesis. Nature Communications, 2020, 11, 971. | 5.8 | 103 |
| 39 | CYP99A3: functional identification of a diterpene oxidase from the momilactone biosynthetic gene cluster in rice. Plant Journal, 2011, 65, 87-95. | 2.8 | 102 |
| 40 | Characterization of CYP76AH4 clarifies phenolic diterpenoid biosynthesis in the Lamiaceae. Organic and Biomolecular Chemistry, 2013, 11, 7650. | 1.5 | 94 |
| 41 | Expansion within the CYP71D subfamily drives the heterocyclization of tanshinones synthesis in Salvia miltiorrhiza. Nature Communications, 2021, 12, 685. | 5.8 | 94 |
| 42 | Characterization of the kaurene oxidase CYP701A3, a multifunctional cytochrome P450 from gibberellin biosynthesis. Biochemical Journal, 2010, 431, 337-347. | 1.7 | 91 |
| 43 | Insights into Diterpene Cyclization from Structure of Bifunctional Abietadiene Synthase from Abies grandis. Journal of Biological Chemistry, 2012, 287, 6840-6850. | 1.6 | 91 |
| 44 | A Single Residue Switch Converts Abietadiene Synthase into a Pimaradiene Specific Cyclase. Journal of the American Chemical Society, 2007, 129, 15736-15737. | 6.6 | 88 |
| 45 | 16-Aza-ent-beyerane and 16-Aza-ent-trachylobane:Â Potent Mechanism-Based Inhibitors of Recombinantent-Kaurene Synthase fromArabidopsis thaliana. Journal of the American Chemical Society, 2007, 129, 12453-12460. | 6.6 | 83 |
| 46 | Effect of Isotopically Sensitive Branching on Product Distribution for Pentalenene Synthase: Support for a Mechanism Predicted by Quantum Chemistry. Journal of the American Chemical Society, 2012, 134, 11369-11371. | 6.6 | 82 |
| 47 | A Tandem Array of ent-Kaurene Synthases in Maize with Roles in Gibberellin and More Specialized Metabolism. Plant Physiology, 2016, 170, 742-751. | 2.3 | 81 |
| 48 | Probing the Role of the DXDD Motif in Class II Diterpene Cyclases. ChemBioChem, 2007, 8, 869-874. | 1.3 | 80 |
| 49 | The Application of Synthetic Biology to Elucidation of Plant Mono-, Sesqui-, and Diterpenoid Metabolism. Molecular Plant, 2015, 8, 6-16. | 3.9 | 75 |
| 50 | The genome of the medicinal plant Andrographis paniculata provides insight into the biosynthesis of the bioactive diterpenoid neoandrographolide. Plant Journal, 2019, 97, 841-857. | 2.8 | 75 |
| 51 | Abietadiene Synthase Catalysis:Â Conserved Residues Involved in Protonation-Initiated Cyclization of Geranylgeranyl Diphosphate to (+)-Copalyl Diphosphateâ€. Biochemistry, 2002, 41, 1836-1842. | 1.2 | 70 |
| 52 | Parsing a multifunctional biosynthetic gene cluster from rice: Biochemical characterization of CYP71Z6 & 7. FEBS Letters, 2011, 585, 3446-3451. | 1.3 | 70 |
| 53 | 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 |
| 54 | Increasing Complexity of a Diterpene Synthase Reaction with a Single Residue Switch. Journal of the American Chemical Society, 2008, 130, 5400-5401. | 6.6 | 69 |

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|---|---|---|---|
| 55 | The honeysuckle genome provides insight into the molecular mechanism of carotenoid metabolism underlying dynamic flower coloration. New Phytologist, 2020, 227, 930-943. | 3.5 | 68 |
| 56 | Synergistic Substrate Inhibition of ent-Copalyl Diphosphate Synthase: A Potential Feed-Forward Inhibition Mechanism Limiting Gibberellin Metabolism. Plant Physiology, 2007, 144, 445-454. | 2.3 | 66 |
| 57 | Functional characterization of wheat copalyl diphosphate synthases sheds light on the early evolution of labdane-related diterpenoid metabolism in the cereals. Phytochemistry, 2012, 84, 40-46. | 1.4 | 65 |
| 58 | Domain loss has independently occurred multiple times in plant terpene synthase evolution. Plant Journal, 2011, 68, 1051-1060. | 2.8 | 64 |
| 59 | Novel Product Chemistry from Mechanistic Analysis of entâ€Copalyl Diphosphate Synthases from Plant Hormone Biosynthesis. Angewandte Chemie - International Edition, 2014, 53, 7198-7202. | 7.2 | 64 |
| 60 | Extreme promiscuity of a bacterial and a plant diterpene synthase enables combinatorial biosynthesis. Metabolic Engineering, 2016, 37, 24-34. | 3.6 | 63 |
| 61 | Investigation of the Chemical Interface in the Soybeanâ€“Aphid and Riceâ€“Bacteria Interactions Using MALDI-Mass Spectrometry Imaging. Analytical Chemistry, 2015, 87, 5294-5301. | 3.2 | 61 |
| 62 | Blocking Deprotonation with Retention of Aromaticity in a Plant entâ€Copalyl Diphosphate Synthase Leads to Product Rearrangement. Angewandte Chemie - International Edition, 2016, 55, 634-638. | 7.2 | 61 |
| 63 | Bifunctional Abietadiene Synthase:Â Mutual Structural Dependence of the Active Sites for Protonation-Initiated and Ionization-Initiated Cyclizationsâ€. Biochemistry, 2003, 42, 2700-2707. | 1.2 | 60 |
| 64 | Functional characterization of wheat ent-kaurene(-like) synthases indicates continuing evolution of labdane-related diterpenoid metabolism in the cereals. Phytochemistry, 2012, 84, 47-55. | 1.4 | 60 |
| 65 | Abietadiene synthase catalysis: Mutational analysis of a prenyl diphosphate ionization-initiated cyclization and rearrangement. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 580-584. | 3.3 | 59 |
| 66 | Identification and characterization of the viral interaction determinant of the subgroup A avian leukosis virus receptor. Journal of Virology, 1995, 69, 4261-4266. | 1.5 | 58 |
| 67 | Terpenoid Secondary Metabolites in Bryophytes: Chemical Diversity, Biosynthesis and Biological Functions. Critical Reviews in Plant Sciences, 2018, 37, 210-231. | 2.7 | 57 |
| 68 | Edaxadiene: A New Bioactive Diterpene from Mycobacterium tuberculosis. Journal of the American Chemical Society, 2009, 131, 17526-17527. | 6.6 | 55 |
| 69 | Inferring Roles in Defense from Metabolic Allocation of Rice Diterpenoids. Plant Cell, 2018, 30, 1119-1131. | 3.1 | 55 |
| 70 | Mechanism of Abietadiene Synthase Catalysis:Â Stereochemistry and Stabilization of the Cryptic Pimarenyl Carbocation Intermediates. Journal of the American Chemical Society, 2002, 124, 6998-7006. | 6.6 | 53 |
| 71 | Probing the promiscuity of ent -kaurene oxidases via combinatorial biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2526-2531. | 3.3 | 53 |
| 72 | CYP72A enzymes catalyse 13-hydrolyzation of gibberellins. Nature Plants, 2019, 5, 1057-1065. | 4.7 | 53 |

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|---|---|---|---|
| 73 | Pro Region C-Terminus:Protease Active Site Interactions Are Critical in Catalyzing the Folding of Î±-Lytic Proteaseâ€. Biochemistry, 1998, 37, 12058-12067. | 1.2 | 52 |
| 74 | A Single Residue Change Leads to a Hydroxylated Product from the Class II Diterpene Cyclization Catalyzed by Abietadiene Synthase. Organic Letters, 2012, 14, 5828-5831. | 2.4 | 52 |
| 75 | 1.55Ã…-resolution structure of ent-copalyl diphosphate synthase and exploration of general acid function by site-directed mutagenesis. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 184-190. | 1.1 | 52 |
| 76 | Identification and functional characterization of diterpene synthases for triptolide biosynthesis from Tripterygium wilfordii. Plant Journal, 2018, 93, 50-65. | 2.8 | 52 |
| 77 | Investigating the conservation pattern of a putative second terpene synthase divalent metal binding motif in plants. Phytochemistry, 2009, 70, 366-369. | 1.4 | 51 |
| 78 | Stereochemistry of the Cyclization-Rearrangement of (+)-Copalyl Diphosphate to (âˆ’)-Abietadiene Catalyzed by Recombinant Abietadiene Synthase fromAbies grandis. Organic Letters, 2000, 2, 573-576. | 2.4 | 49 |
| 79 | Picking sides: distinct roles for CYP76M6 and CYP76M8Âin rice oryzalexin biosynthesis. Biochemical Journal, 2013, 454, 209-216. | 1.7 | 48 |
| 80 | Molecular Diversity of Terpene Synthases in the Liverwort Marchantia polymorpha. Plant Cell, 2016, 28, tpc.00062.2016. | 3.1 | 48 |
| 81 | Oil Body Formation in Marchantia polymorpha Is Controlled by MpC1HDZ and Serves as a Defense against Arthropod Herbivores. Current Biology, 2020, 30, 2815-2828.e8. | 1.8 | 48 |
| 82 | Origin and early evolution of the plant terpene synthase family. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2100361119. | 3.3 | 48 |
| 83 | Electrostatic effects on (di)terpene synthase product outcome. Chemical Communications, 2011, 47, 4074. | 2.2 | 47 |
| 84 | Functional Conservation of the Capacity for ent-Kaurene Biosynthesis and an Associated Operon in Certain Rhizobia. Journal of Bacteriology, 2014, 196, 100-106. | 1.0 | 47 |
| 85 | Evident and latent plasticity across the rice diterpene synthase family with potential implications for the evolution of diterpenoid metabolism in the cereals. Biochemical Journal, 2011, 435, 589-595. | 1.7 | 46 |
| 86 | An unexpected diterpene cyclase from rice: Functional identification of a stemodene synthase. Archives of Biochemistry and Biophysics, 2006, 448, 133-140. | 1.4 | 44 |
| 87 | Alternative termination chemistries utilized by monoterpene cyclases: chimeric analysis of bornyl diphosphate, 1,8-cineole, and sabinene synthases. Archives of Biochemistry and Biophysics, 2003, 417, 203-211. | 1.4 | 43 |
| 88 | A Novel Labdaâ€7,13Eâ€dienâ€15â€olâ€Producing Bifunctional Diterpene Synthase from Selaginella moellendorffii. ChemBioChem, 2011, 12, 1984-1987. | 1.3 | 43 |
| 89 | Characterization of CYP71Z18 indicates a role in maize zealexin biosynthesis. Phytochemistry, 2016, 121, 4-10. | 1.4 | 43 |
| 90 | Biosynthesis of the Diterpenoid Lycosantalonol via Nerylneryl Diphosphate in Solanum lycopersicum. PLoS ONE, 2015, 10, e0119302. | 1.1 | 42 |

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|---|---|---|---|
| 91 | A Single Residue Switch for Mg2+-dependent Inhibition Characterizes Plant Class II Diterpene Cyclases from Primary and Secondary Metabolism. Journal of Biological Chemistry, 2010, 285, 20558-20563. | 1.6 | 41 |
| 92 | Biosynthesis of Lycosantalonol, a cis-Prenyl Derived Diterpenoid. Journal of the American Chemical Society, 2014, 136, 16951-16953. | 6.6 | 41 |
| 93 | Product Rearrangement from Altering a Single Residue in the Rice syn-Copalyl Diphosphate Synthase. Organic Letters, 2016, 18, 1060-1063. | 2.4 | 40 |
| 94 | Characterization and Inhibition of a Class II Diterpene Cyclase from Mycobacterium tuberculosis. Journal of Biological Chemistry, 2009, 284, 23574-23579. | 1.6 | 35 |
| 95 | Optimization of recombinant expression enables discovery of novel cytochrome P450 activity in rice diterpenoid biosynthesis. Applied Microbiology and Biotechnology, 2015, 99, 7549-7558. | 1.7 | 35 |
| 96 | A Pair of Residues That Interactively Affect Diterpene Synthase Product Outcome. ACS Chemical Biology, 2017, 12, 862-867. | 1.6 | 34 |
| 97 | Interdependent evolution of biosynthetic gene clusters for momilactone production in rice. Plant Cell, 2021, 33, 290-305. | 3.1 | 34 |
| 98 | Synthesis of (Â±)-Nosyberkol (Isotuberculosinol, Revised Structure of Edaxadiene) and (Â±)-Tuberculosinol. Organic Letters, 2010, 12, 2626-2629. | 2.4 | 33 |
| 99 | Efficient heterocyclisation by (di)terpene synthases. Chemical Communications, 2015, 51, 13485-13487. | 2.2 | 33 |
| 100 | Î±-Lytic Protease Precursor:Â Characterization of a Structured Folding Intermediateâ€. Biochemistry, 1999, 38, 4728-4735. | 1.2 | 31 |
| 101 | Investigating inducible shortâ€chain alcohol dehydrogenases/reductases clarifies rice oryzalexin biosynthesis. Plant Journal, 2016, 88, 271-279. | 2.8 | 30 |
| 102 | Isoprenyl diphosphate synthases: the chain length determining step in terpene biosynthesis. Planta, 2019, 249, 9-20. | 1.6 | 29 |
| 103 | An entâ€kaureneâ€derived diterpenoid virulence factor from <scp>X</scp>anthomonas oryzae pv.Âoryzicola. New Phytologist, 2015, 206, 295-302. | 3.5 | 28 |
| 104 | Characterization of CYP115 As a Gibberellin 3-Oxidase Indicates That Certain Rhizobia Can Produce Bioactive Gibberellin A<sub>4</sub>. ACS Chemical Biology, 2017, 12, 912-917. | 1.6 | 28 |
| 105 | Identification of RoCYP01 (CYP716A155) enables construction of engineered yeast for high-yield production of betulinic acid. Applied Microbiology and Biotechnology, 2019, 103, 7029-7039. | 1.7 | 28 |
| 106 | Characterization of an Orphan Diterpenoid Biosynthetic Operon from Salinispora arenicola. Journal of Natural Products, 2014, 77, 2144-2147. | 1.5 | 27 |
| 107 | Biosynthesis of Diterpenoids in Tripterygium Adventitious Root Cultures. Plant Physiology, 2017, 175, 92-103. | 2.3 | 27 |
| 108 | Direct production of dihydroxylated sesquiterpenoids by a maize terpene synthase. Plant Journal, 2018, 94, 847-856. | 2.8 | 27 |

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|---|---|---|---|
| 109 | The solution structure of the viral binding domain of Tva, the cellular receptor for subgroup A avian leukosis and sarcoma virus1. FEBS Letters, 2001, 509, 161-168. | 1.3 | 26 |
| 110 | An operon for production of bioactive gibberellin A<sub>4</sub> phytohormone with wide distribution in the bacterial rice leaf streak pathogen Xanthomonas oryzae pv. oryzicola. New Phytologist, 2017, 214, 1260-1266. | 3.5 | 26 |
| 111 | Investigating the Phylogenetic Range of Gibberellin Biosynthesis in Bacteria. Molecular Plant-Microbe Interactions, 2017, 30, 343-349. | 1.4 | 25 |
| 112 | Biochemical characterization of the castor bean ent -kaurene synthase(-like) family supports quantum chemical view of diterpene cyclization. Phytochemistry, 2014, 103, 13-21. | 1.4 | 24 |
| 113 | Identification of a Dolabellane Type Diterpene Synthase and other Root-Expressed Diterpene Synthases in Arabidopsis. Frontiers in Plant Science, 2016, 7, 1761. | 1.7 | 24 |
| 114 | Combinatorial biosynthesis and the basis for substrate promiscuity in class I diterpene synthases. Metabolic Engineering, 2019, 55, 44-58. | 3.6 | 24 |
| 115 | Functional characterization and evolution of the isotuberculosinol operon in Mycobacterium tuberculosis and related Mycobacteria. Frontiers in Microbiology, 2012, 3, 368. | 1.5 | 23 |
| 116 | A Third Class: Functional Gibberellin Biosynthetic Operon in Beta-Proteobacteria. Frontiers in Microbiology, 2018, 9, 2916. | 1.5 | 23 |
| 117 | Extending a Single Residue Switch for Abbreviating Catalysis in Plant ent-Kaurene Synthases. Frontiers in Plant Science, 2016, 7, 1765. | 1.7 | 22 |
| 118 | Conserved bases for the initial cyclase in gibberellin biosynthesis: from bacteria to plants. Biochemical Journal, 2019, 476, 2607-2621. | 1.7 | 22 |
| 119 | Premutilin Synthase: Ring Rearrangement by a Class II Diterpene Cyclase. Organic Letters, 2018, 20, 1200-1202. | 2.4 | 21 |
| 120 | Why are momilactones always associated with biosynthetic gene clusters in plants?. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13867-13869. | 3.3 | 21 |
| 121 | Rice contains a biosynthetic gene cluster associated with production of the casbaneâ€type diterpenoid phytoalexin entâ€10â€oxodepressin. New Phytologist, 2021, 231, 85-93. | 3.5 | 21 |
| 122 | Catalytic Bases and Stereocontrol in Lamiaceae Class II Diterpene Cyclases. Biochemistry, 2018, 57, 3473-3479. | 1.2 | 20 |
| 123 | Tanshinones: Leading the way into Lamiaceae labdane-related diterpenoid biosynthesis. Current Opinion in Plant Biology, 2022, 66, 102189. | 3.5 | 20 |
| 124 | Probing Labdane-Related Diterpenoid Biosynthesis in the Fungal Genus Aspergillus. Journal of Natural Products, 2017, 80, 328-333. | 1.5 | 19 |
| 125 | Diverging Mechanisms: Cytochromeâ€P450â€Catalyzed Demethylation and Î³â€Lactone Formation in Bacterial Gibberellin Biosynthesis. Angewandte Chemie - International Edition, 2018, 57, 6082-6085. | 7.2 | 18 |
| 126 | Switching on a Nontraditional Enzymatic Baseâ€”Deprotonation by Serine in the ent-Kaurene Synthase from Bradyrhizobium japonicum. ACS Catalysis, 2019, 9, 8867-8871. | 5.5 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | A (conditional) role for labdaneâ€related diterpenoid natural products in rice stomatal closure. New Phytologist, 2021, 230, 698-709. | 3.5 | 18 |
| 128 | Labeling Studies Clarify the Committed Step in Bacterial Gibberellin Biosynthesis. Organic Letters, 2016, 18, 5974-5977. | 2.4 | 17 |
| 129 | Introducing selective agrochemical manipulation of gibberellin metabolism into a cereal crop. Nature Plants, 2020, 6, 67-72. | 4.7 | 17 |
| 130 | Dissecting the labdaneâ€related diterpenoid biosynthetic gene clusters in rice reveals directional crossâ€cluster phytotoxicity. New Phytologist, 2022, 233, 878-889. | 3.5 | 17 |
| 131 | Magnesium depletion triggers production of an immune modulating diterpenoid in Mycobacterium tuberculosis. Molecular Microbiology, 2011, 79, 1594-1601. | 1.2 | 16 |
| 132 | Rv0989c encodes a novel (E)-geranyl diphosphate synthase facilitating decaprenyl diphosphate biosynthesis inMycobacterium tuberculosis. FEBS Letters, 2011, 585, 549-554. | 1.3 | 15 |
| 133 | Isotuberculosinol: the unusual case of an immunomodulatory diterpenoid from Mycobacterium tuberculosis. MedChemComm, 2012, 3, 899. | 3.5 | 15 |
| 134 | cis or trans with class II diterpene cyclases. Organic and Biomolecular Chemistry, 2017, 15, 3158-3160. | 1.5 | 14 |
| 135 | Changing Face: A Key Residue for the Addition of Water by Sclareol Synthase. ACS Catalysis, 2018, 8, 3133-3137. | 5.5 | 14 |
| 136 | Doing the gene shuffle to close synteny: dynamic assembly of biosynthetic gene clusters. New Phytologist, 2020, 227, 992-994. | 3.5 | 13 |
| 137 | Production of the plant hormone gibberellin by rhizobia increases host legume nodule size. ISME Journal, 2022, 16, 1809-1817. | 4.4 | 13 |
| 138 | Diterpenoid biopolymers: New directions for renewable materials engineering. Biopolymers, 2011, 95, 71-76. | 1.2 | 12 |
| 139 | Rice diterpenoid phytoalexins are involved in defence against parasitic nematodes and shape rhizosphere nematode communities. New Phytologist, 2022, 235, 1231-1245. | 3.5 | 12 |
| 140 | 18O2 labeling experiments illuminate the oxidation of ent-kaurene in bacterial gibberellin biosynthesis. Organic and Biomolecular Chemistry, 2017, 15, 7566-7571. | 1.5 | 11 |
| 141 | Probing the specificity of CYP112 in bacterial gibberellin biosynthesis. Biochemical Journal, 2018, 475, 2167-2177. | 1.7 | 7 |
| 142 | Unraveling a Tangled Skein: Evolutionary Analysis of the Bacterial Gibberellin Biosynthetic Operon. MSphere, 2020, 5, . | 1.3 | 7 |
| 143 | A pair of threonines mark ent-kaurene synthases for phytohormone biosynthesis. Phytochemistry, 2021, 184, 112672. | 1.4 | 7 |
| 144 | Arginine in the FARM and SARM: A Role in Chain-Length Determination for Arginine in the Aspartate-Rich Motifs of Isoprenyl Diphosphate Synthases from Mycobacterium tuberculosis. Molecules, 2018, 23, 2546. | 1.7 | 6 |

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|---|---|---|---|
| 145 | Probing Enzymatic Structure and Function in the Dihydroxylating Sesquiterpene Synthase ZmEDS. Biochemistry, 2020, 59, 2660-2666. | 1.2 | 5 |
| 146 | Mining of the Catharanthus roseus Genome Leads to Identification of a Biosynthetic Gene Cluster for Fungicidal Sesquiterpenes. Journal of Natural Products, 2021, 84, 2709-2716. | 1.5 | 5 |
| 147 | Diterpene synthases fromLeonurus japonicuselucidate epoxy-bridge formation of spiro-labdane diterpenoids. Plant Physiology, 2022, 189, 99-111. | 2.3 | 5 |
| 148 | Metabolic Engineering of Plant Secondary Metabolism. , 0, , . | | 4 |
| 149 | Investigation of Acidâ€“Base Catalysis in Halimadienyl Diphosphate Synthase Involved in Mycobacterium tuberculosis Virulence. ACS Bio & Med Chem Au, 2022, 2, 490-498. | 1.7 | 4 |
| 150 | Diverging Mechanisms: Cytochromeâ€P450â€Catalyzed Demethylation and Î³â€Lactone Formation in Bacterial Gibberellin Biosynthesis. Angewandte Chemie, 2018, 130, 6190-6193. | 1.6 | 3 |
| 151 | Gibberellin Phytohormone Metabolism. , 2012, , 233-249. | | 3 |
| 152 | Magnesium-specific ring expansion/contraction catalysed by the class II diterpene cyclase from pleuromutilin biosynthesis. Organic and Biomolecular Chemistry, 2020, 18, 5586-5588. | 1.5 | 2 |
| 153 | Deceptive Complexity in Formation of Cleistantha-8,12-diene. Organic Letters, 2022, 24, 2646-2649. | 2.4 | 2 |
| 154 | Isotuberculosinol: An immunomodulatory diterpenoid from Mycobacterium tuberculosis. FASEB Journal, 2012, 26, 800.2. | 0.2 | 0 |
| 155 | To Gibberellins and Beyond! Insights into the Evolution of Diterpenoid Metabolism. FASEB Journal, 2012, 26, 576.1. | 0.2 | 0 |