

Jörg Bohlmann

List of Publications by Year in descending order

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227
papers

23,371
citations

4658

85
h-index

9345

143
g-index

232
all docs

232
docs citations

232
times ranked

16972
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The Norway spruce genome sequence and conifer genome evolution. <i>Nature</i> , 2013, 497, 579-584. | 27.8 | 1,303 |
| 2 | 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 |
| 3 | Genes, enzymes and chemicals of terpenoid diversity in the constitutive and induced defence of conifers against insects and pathogens*. <i>New Phytologist</i> , 2006, 170, 657-675. | 7.3 | 593 |
| 4 | 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 |
| 5 | Terpenoid biomaterials. <i>Plant Journal</i> , 2008, 54, 656-669. | 5.7 | 423 |
| 6 | (E)- β -Ocimene and Myrcene Synthase Genes of Floral Scent Biosynthesis in Snapdragon: Function and Expression of Three Terpene Synthase Genes of a New Terpene Synthase Subfamily. <i>Plant Cell</i> , 2003, 15, 1227-1241. | 6.6 | 397 |
| 7 | Functional Annotation, Genome Organization and Phylogeny of the Grapevine (<i>Vitis vinifera</i>) Terpene Synthase Gene Family Based on Genome Assembly, FLcDNA Cloning, and Enzyme Assays. <i>BMC Plant Biology</i> , 2010, 10, 226. | 3.6 | 390 |
| 8 | Induction of Volatile Terpene Biosynthesis and Diurnal Emission by Methyl Jasmonate in Foliage of Norway Spruce. <i>Plant Physiology</i> , 2003, 132, 1586-1599. | 4.8 | 381 |
| 9 | Functional Characterization of Nine Norway Spruce TPS Genes and Evolution of Gymnosperm Terpene Synthases of the TPS-d Subfamily. <i>Plant Physiology</i> , 2004, 135, 1908-1927. | 4.8 | 369 |
| 10 | Sesquiterpene Synthases from Grand Fir (<i>Abies grandis</i>). <i>Journal of Biological Chemistry</i> , 1998, 273, 2078-2089. | 3.4 | 362 |
| 11 | Assembling the 20 Gb white spruce (<i>Picea glauca</i>) genome from whole-genome shotgun sequencing data. <i>Bioinformatics</i> , 2013, 29, 1492-1497. | 4.1 | 356 |
| 12 | Diterpene resin acids in conifers. <i>Phytochemistry</i> , 2006, 67, 2415-2423. | 2.9 | 284 |
| 13 | Insect-Induced Conifer Defense. White Pine Weevil and Methyl Jasmonate Induce Traumatic Resinosis, de Novo Formed Volatile Emissions, and Accumulation of Terpenoid Synthase and Putative Octadecanoid Pathway Transcripts in Sitka Spruce. <i>Plant Physiology</i> , 2005, 137, 369-382. | 4.8 | 262 |
| 14 | Draft genome of the mountain pine beetle, <i>Dendroctonus ponderosae</i> Hopkins, a major forest pest. <i>Genome Biology</i> , 2013, 14, R27. | 9.6 | 260 |
| 15 | Global transcript profiling of primary stems from <i>Arabidopsis thaliana</i> identifies candidate genes for missing links in lignin biosynthesis and transcriptional regulators of fiber differentiation. <i>Plant Journal</i> , 2005, 42, 618-640. | 5.7 | 254 |
| 16 | Terpenoid Biosynthesis and Specialized Vascular Cells of Conifer Defense. <i>Journal of Integrative Plant Biology</i> , 2010, 52, 86-97. | 8.5 | 254 |
| 17 | Efficacy of tree defense physiology varies with bark beetle population density: a basis for positive feedback in eruptive species. <i>Canadian Journal of Forest Research</i> , 2011, 41, 1174-1188. | 1.7 | 250 |
| 18 | Pine monoterpenes and pine bark beetles: a marriage of convenience for defense and chemical communication. <i>Phytochemistry Reviews</i> , 2006, 5, 143-178. | 6.5 | 233 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Transgenic, non-isoprene emitting poplars don't like it hot. <i>Plant Journal</i> , 2007, 51, 485-499. | 5.7 | 229 |
| 20 | Bacteria Associated with a Tree-Killing Insect Reduce Concentrations of Plant Defense Compounds. <i>Journal of Chemical Ecology</i> , 2013, 39, 1003-1006. | 1.8 | 227 |
| 21 | Conifer defence against insects: microarray gene expression profiling of Sitka spruce (<i>Picea</i>) transcriptome. <i>Plant, Cell and Environment</i> , 2006, 29, 1545-1570. | 5.7 | 221 |
| 22 | Forest tent caterpillars (<i>Malacosoma disstria</i>) induce local and systemic diurnal emissions of terpenoid volatiles in hybrid poplar (<i>Populus trichocarpa</i> × <i>P. deltoides</i>): cDNA cloning, functional characterization, and patterns of gene expression of (-)-germacr. <i>Plant Journal</i> , 2004, 37, 603-616. | 5.7 | 220 |
| 23 | Genome and transcriptome analyses of the mountain pine beetle-fungal symbiont <i>Grosmannia clavigera</i> , a lodgepole pine pathogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2504-2509. | 7.1 | 218 |
| 24 | Antennal transcriptome analysis of the chemosensory gene families in the tree killing bark beetles, <i>Ips typographus</i> and <i>Dendroctonus ponderosae</i> (Coleoptera: Curculionidae: Scolytinae). <i>BMC Genomics</i> , 2013, 14, 198. | 2.8 | 216 |
| 25 | Monoterpene Synthases from Grand Fir (<i>Abies grandis</i>). <i>Journal of Biological Chemistry</i> , 1997, 272, 21784-21792. | 3.4 | 210 |
| 26 | Characterization of a Root-Specific Arabidopsis Terpene Synthase Responsible for the Formation of the Volatile Monoterpene 1,8-Cineole. <i>Plant Physiology</i> , 2004, 135, 1956-1966. | 4.8 | 207 |
| 27 | <i>Vitis vinifera</i> terpenoid cyclases: functional identification of two sesquiterpene synthase cDNAs encoding (+)-valencene synthase and (-)-germacrene D synthase and expression of mono- and sesquiterpene synthases in grapevine flowers and berries. <i>Phytochemistry</i> , 2004, 65, 2649-2659. | 2.9 | 205 |
| 28 | The Transcriptional Response of Hybrid Poplar (<i>Populus trichocarpa</i> × <i>P. deltoides</i>) to Infection by <i>Melampsora medusae</i> Leaf Rust Involves Induction of Flavonoid Pathway Genes Leading to the Accumulation of Proanthocyanidins. <i>Molecular Plant-Microbe Interactions</i> , 2007, 20, 816-831. | 2.6 | 205 |
| 29 | Improved white spruce (<i>Picea glauca</i>) genome assemblies and annotation of large gene families of conifer terpenoid and phenolic defense metabolism. <i>Plant Journal</i> , 2015, 83, 189-212. | 5.7 | 200 |
| 30 | Transcriptome analysis based on next-generation sequencing of non-model plants producing specialized metabolites of biotechnological interest. <i>Journal of Biotechnology</i> , 2013, 166, 122-134. | 3.8 | 196 |
| 31 | Genomics of hybrid poplar (<i>Populus trichocarpa</i> × <i>P. deltoides</i>) interacting with forest tent caterpillars (<i>Malacosoma disstria</i>): normalized and full-length cDNA libraries, expressed sequence tags, and a cDNA microarray for the study of insect-induced defences. <i>Molecular Ecology</i> , 2006, 15, 1275-1297. | 3.9 | 183 |
| 32 | Terpene synthases from <i>Cannabis sativa</i> . <i>PLoS ONE</i> , 2017, 12, e0173911. | 2.5 | 183 |
| 33 | Robust simple sequence repeat markers for spruce (<i>Picea</i> spp.) from expressed sequence tags. <i>Theoretical and Applied Genetics</i> , 2004, 109, 1283-1294. | 3.6 | 181 |
| 34 | Functional plasticity of paralogous diterpene synthases involved in conifer defense. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1085-1090. | 7.1 | 178 |
| 35 | Loblolly pine abietadienol/abietadienal oxidase PtAO (CYP720B1) is a multifunctional, multisubstrate cytochrome P450 monooxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8060-8065. | 7.1 | 172 |
| 36 | Traumatic resin defense in Norway spruce (<i>Picea abies</i>): methyl jasmonate-induced terpene synthase gene expression, and cDNA cloning and functional characterization of (+)-3-carene synthase. <i>Plant Molecular Biology</i> , 2003, 51, 119-133. | 3.9 | 171 |

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|----|--|------|-----------|
| 37 | Proteome analysis of early somatic embryogenesis in <i>Picea glauca</i> . <i>Proteomics</i> , 2005, 5, 461-473. | 2.2 | 166 |
| 38 | Slow but not low: genomic comparisons reveal slower evolutionary rate and higher dN/dS in conifers compared to angiosperms. <i>BMC Evolutionary Biology</i> , 2012, 12, 8. | 3.2 | 164 |
| 39 | Insights into Conifer Giga-Genomes. <i>Plant Physiology</i> , 2014, 166, 1724-1732. | 4.8 | 164 |
| 40 | Dirigent Proteins in Conifer Defense: Gene Discovery, Phylogeny, and Differential Wound- and Insect-induced Expression of a Family of DIR and DIR-like Genes in Spruce (<i>Picea</i> spp.). <i>Plant Molecular Biology</i> , 2006, 60, 21-40. | 3.9 | 160 |
| 41 | The Molecular Basis for Wine Grape Quality-A Volatile Subject. <i>Science</i> , 2006, 311, 804-805. | 12.6 | 158 |
| 42 | <i>Cannabis glandular trichomes</i> alter morphology and metabolite content during flower maturation. <i>Plant Journal</i> , 2020, 101, 37-56. | 5.7 | 158 |
| 43 | Terpenes in <i>Cannabis sativa</i> – From plant genome to humans. <i>Plant Science</i> , 2019, 284, 67-72. | 3.6 | 157 |
| 44 | Gene Discovery of Modular Diterpene Metabolism in Nonmodel Systems –. <i>Plant Physiology</i> , 2013, 162, 1073-1091. | 4.8 | 154 |
| 45 | A specialized ABC efflux transporter <i>G</i> confers monoterpene resistance to <i>rosmannia clavigera</i> , a bark beetle-associated fungal pathogen of pine trees. <i>New Phytologist</i> , 2013, 197, 886-898. | 7.3 | 152 |
| 46 | Discovery and functional characterization of two diterpene synthases for sclareol biosynthesis in <i>Salvia sclarea</i> (L.) and their relevance for perfume manufacture. <i>BMC Plant Biology</i> , 2012, 12, 119. | 3.6 | 151 |
| 47 | A Common Fungal Associate of the Spruce Bark Beetle Metabolizes the Stilbene Defenses of Norway Spruce –. <i>Plant Physiology</i> , 2013, 162, 1324-1336. | 4.8 | 150 |
| 48 | Evolution of Diterpene Metabolism: Sitka Spruce CYP720B4 Catalyzes Multiple Oxidations in Resin Acid Biosynthesis of Conifer Defense against Insects –. <i>Plant Physiology</i> , 2011, 157, 1677-1695. | 4.8 | 149 |
| 49 | Isolation of high-quality RNA from gymnosperm and angiosperm trees. <i>BioTechniques</i> , 2004, 36, 821-824. | 1.8 | 148 |
| 50 | Insect Attack and Wounding Induce Traumatic Resin Duct Development and Gene Expression of (–)-Pinene Synthase in Sitka Spruce. <i>Plant Physiology</i> , 2003, 133, 368-378. | 4.8 | 144 |
| 51 | Mono and diterpene production in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2004, 87, 200-212. | 3.3 | 141 |
| 52 | Use of Ecotilling as an efficient SNP discovery tool to survey genetic variation in wild populations of <i>Populus trichocarpa</i> . <i>Molecular Ecology</i> , 2006, 15, 1367-1378. | 3.9 | 140 |
| 53 | Herbivore-Induced Defense Response in a Model Legume. Two-Spotted Spider Mites Induce Emission of (<i>E</i>)- <i>l</i> -Ocimene and Transcript Accumulation of (<i>E</i>)- <i>l</i> -Ocimene Synthase in <i>Lotus japonicus</i> –. <i>Plant Physiology</i> , 2004, 135, 1976-1983. | 4.8 | 139 |
| 54 | Oleoresin defenses in conifers: chemical diversity, terpene synthases and limitations of oleoresin defense under climate change. <i>New Phytologist</i> , 2019, 224, 1444-1463. | 7.3 | 139 |

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|----|---|------|-----------|
| 55 | Terpenoid Secondary Metabolism in <i>Arabidopsis thaliana</i> : cDNA Cloning, Characterization, and Functional Expression of a Myrcene/(E)-Î²-Ocimene Synthase. <i>Archives of Biochemistry and Biophysics</i> , 2000, 375, 261-269. | 3.0 | 137 |
| 56 | Manoyl Oxide (13R), the Biosynthetic Precursor of Forskolol, Is Synthesized in Specialized Root Cork Cells in <i>Coleus forskohlii</i> . <i>Plant Physiology</i> , 2014, 164, 1222-1236. | 4.8 | 135 |
| 57 | Functional identification of AtTPS03 as (E)-Î²-ocimene synthase: a monoterpene synthase catalyzing jasmonate- and wound-induced volatile formation in <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2003, 216, 745-751. | 3.2 | 134 |
| 58 | Expanding the Landscape of Diterpene Structural Diversity through Stereochemically Controlled Combinatorial Biosynthesis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2142-2146. | 13.8 | 134 |
| 59 | Plant diterpene synthases: exploring modularity and metabolic diversity for bioengineering. <i>Trends in Biotechnology</i> , 2015, 33, 419-428. | 9.3 | 133 |
| 60 | cDNA Cloning, Characterization, and Functional Expression of Four New Monoterpene Synthase Members of the Tpsd Gene Family from Grand Fir (<i>Abies grandis</i>). <i>Archives of Biochemistry and Biophysics</i> , 1999, 368, 232-243. | 3.0 | 130 |
| 61 | De novo genome sequence assembly of a filamentous fungus using Sanger, 454 and Illumina sequence data. <i>Genome Biology</i> , 2009, 10, R94. | 9.6 | 130 |
| 62 | Synthetic biosystems for the production of high-value plant metabolites. <i>Trends in Biotechnology</i> , 2012, 30, 127-131. | 9.3 | 128 |
| 63 | Sandalwood Fragrance Biosynthesis Involves Sesquiterpene Synthases of Both the Terpene Synthase (TPS)-a and TPS-b Subfamilies, including Santalene Synthases. <i>Journal of Biological Chemistry</i> , 2011, 286, 17445-17454. | 3.4 | 127 |
| 64 | Functional identification and differential expression of 1-deoxy-d-xylulose 5-phosphate synthase in induced terpenoid resin formation of Norway spruce (<i>Picea abies</i>). <i>Plant Molecular Biology</i> , 2007, 65, 243-257. | 3.9 | 126 |
| 65 | Identification of <i>Vitis vinifera</i> (âˆš)-Î±-terpineol synthase by in silico screening of full-length cDNA ESTs and functional characterization of recombinant terpene synthase. <i>Phytochemistry</i> , 2004, 65, 1223-1229. | 2.9 | 122 |
| 66 | BIOSYNTHESIS OF CONIFEROPHAGOUS BARK BEETLE PHEROMONES AND CONIFER ISOPRENOIDS: EVOLUTIONARY PERSPECTIVE AND SYNTHESIS. <i>Canadian Entomologist</i> , 2000, 132, 697-753. | 0.8 | 120 |
| 67 | Transcriptome mining, functional characterization, and phylogeny of a large terpene synthase gene family in spruce (<i>Picea</i> spp.). <i>BMC Plant Biology</i> , 2011, 11, 43. | 3.6 | 120 |
| 68 | Evolution of Conifer Diterpene Synthases: Diterpene Resin Acid Biosynthesis in Lodgepole Pine and Jack Pine Involves Monofunctional and Bifunctional Diterpene Synthases. <i>Plant Physiology</i> , 2013, 161, 600-616. | 4.8 | 118 |
| 69 | Biosynthesis of Sandalwood Oil: <i>Santalum album</i> CYP76F Cytochromes P450 Produce Santalols and Bergamotol. <i>PLoS ONE</i> , 2013, 8, e75053. | 2.5 | 117 |
| 70 | Dirigent proteins in conifer defense II: Extended gene discovery, phylogeny, and constitutive and stress-induced gene expression in spruce (<i>Picea</i> spp.). <i>Phytochemistry</i> , 2007, 68, 1975-1991. | 2.9 | 116 |
| 71 | An integrated genomic, proteomic and biochemical analysis of (+)-Î±-carene biosynthesis in Sitka spruce (<i>Picea sitchensis</i>) genotypes that are resistant or susceptible to white pine weevil. <i>Plant Journal</i> , 2011, 65, 936-948. | 5.7 | 116 |
| 72 | Population sequencing reveals clonal diversity and ancestral inbreeding in the grapevine cultivar Chardonnay. <i>PLoS Genetics</i> , 2018, 14, e1007807. | 3.5 | 116 |

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|----|---|-----|-----------|
| 73 | Monoterpene-induced molecular responses in <i>Arabidopsis thaliana</i> . <i>Phytochemistry</i> , 2008, 69, 1838-1849. | 2.9 | 113 |
| 74 | A conifer genomics resource of 200,000 spruce (<i>Picea</i> spp.) ESTs and 6,464 high-quality, sequence-finished full-length cDNAs for Sitka spruce (<i>Picea sitchensis</i>). <i>BMC Genomics</i> , 2008, 9, 484. | 2.8 | 113 |
| 75 | Biosynthesis of the Major Tetrahydroxystilbenes in Spruce, Astringin and Isorhapontin, Proceeds via Resveratrol and Is Enhanced by Fungal Infection. <i>Plant Physiology</i> , 2011, 157, 876-890. | 4.8 | 112 |
| 76 | Biosynthesis of wine aroma: transcript profiles of hydroxymethylbutenyl diphosphate reductase, geranyl diphosphate synthase, and linalool/nerolidol synthase parallel monoterpene glycoside accumulation in Gewürztraminer grapes. <i>Planta</i> , 2012, 236, 919-929. | 3.2 | 112 |
| 77 | Global monitoring of autumn gene expression within and among phenotypically divergent populations of Sitka spruce (<i>Picea sitchensis</i>). <i>New Phytologist</i> , 2008, 178, 103-122. | 7.3 | 111 |
| 78 | Wound-Induced Terpene Synthase Gene Expression in Sitka Spruce That Exhibit Resistance or Susceptibility to Attack by the White Pine Weevil. <i>Plant Physiology</i> , 2006, 140, 1009-1021. | 4.8 | 106 |
| 79 | Targeted proteomics using selected reaction monitoring reveals the induction of specific terpene synthases in a multi-level study of methyl jasmonate-treated Norway spruce (<i>Picea abies</i>). <i>Plant Journal</i> , 2009, 60, 1015-1030. | 5.7 | 106 |
| 80 | Impact of <i>Salmonella</i> Infection on Host Hormone Metabolism Revealed by Metabolomics. <i>Infection and Immunity</i> , 2011, 79, 1759-1769. | 2.2 | 104 |
| 81 | Contribution of isopentenyl phosphate to plant terpenoid metabolism. <i>Nature Plants</i> , 2018, 4, 721-729. | 9.3 | 100 |
| 82 | Identification and Functional Characterization of Monofunctional α -Copalyl Diphosphate and β -Kaurene Synthases in White Spruce Reveal Different Patterns for Diterpene Synthase Evolution for Primary and Secondary Metabolism in Gymnosperms. <i>Plant Physiology</i> , 2010, 152, 1197-1208. | 4.8 | 99 |
| 83 | The bouquet of grapevine (<i>Vitis vinifera</i> L. cv. Cabernet Sauvignon) flowers arises from the biosynthesis of sesquiterpene volatiles in pollen grains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7245-7250. | 7.1 | 97 |
| 84 | Tigmint: correcting assembly errors using linked reads from large molecules. <i>BMC Bioinformatics</i> , 2018, 19, 393. | 2.6 | 97 |
| 85 | Discovery, Biosynthesis and Stress-Related Accumulation of Dolabradiene-Derived Defenses in Maize. <i>Plant Physiology</i> , 2018, 176, 2677-2690. | 4.8 | 94 |
| 86 | Transcriptome and full-length cDNA resources for the mountain pine beetle, <i>Dendroctonus ponderosae</i> Hopkins, a major insect pest of pine forests. <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 525-536. | 2.7 | 93 |
| 87 | Comparative transcriptome analysis of <i>Arabidopsis thaliana</i> infested by diamond back moth (<i>Plutella</i>). <i>BMC Genomics</i> , 2008, 9, 154. | 2.8 | 90 |
| 88 | SNP discovery, gene diversity, and linkage disequilibrium in wild populations of <i>Populus tremuloides</i> . <i>Tree Genetics and Genomes</i> , 2012, 8, 821-829. | 1.6 | 86 |
| 89 | Toxicity of Pine Monoterpenes to Mountain Pine Beetle. <i>Scientific Reports</i> , 2017, 7, 8858. | 3.3 | 85 |
| 90 | Laser microdissection of conifer stem tissues: Isolation and analysis of high quality RNA, terpene synthase enzyme activity and terpenoid metabolites from resin ducts and cambial zone tissue of white spruce (<i>Picea glauca</i>). <i>BMC Plant Biology</i> , 2010, 10, 106. | 3.6 | 83 |

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|-----|---|-----|-----------|
| 91 | Conifer defense against insects: Proteome analysis of Sitka spruce (<i>Picea sitchensis</i>) bark induced by mechanical wounding or feeding by white pine weevils (<i>Pissodes strobi</i>). <i>Proteomics</i> , 2007, 7, 248-270. | 2.2 | 82 |
| 92 | RNA-seq discovery, functional characterization, and comparison of sesquiterpene synthases from <i>Solanum lycopersicum</i> and <i>Solanum habrochaites</i> trichomes. <i>Plant Molecular Biology</i> , 2011, 77, 323-336. | 3.9 | 80 |
| 93 | Heartwood-specific transcriptome and metabolite signatures of tropical sandalwood (<i>Santalum</i>) Tj ETQq1 1 0.784314 rgBT /Ove 289-299. | 5.7 | 79 |
| 94 | Purification and cDNA cloning of anthranilate synthase from <i>Ruta graveolens</i> : modes of expression and properties of native and recombinant enzymes. <i>Plant Journal</i> , 1995, 7, 491-501. | 5.7 | 78 |
| 95 | Diterpene resin acid biosynthesis in loblolly pine (<i>Pinus taeda</i>): Functional characterization of abietadiene/levopimaradiene synthase (PtTPS-LAS) cDNA and subcellular targeting of PtTPS-LAS and abietadienol/abietadienal oxidase (PtAO, CYP720B1). <i>Phytochemistry</i> , 2006, 67, 1572-1578. | 2.9 | 78 |
| 96 | Changes in anatomy and terpene chemistry in roots of Douglas-fir seedlings following treatment with methyl jasmonate. <i>Tree Physiology</i> , 2005, 25, 1075-1083. | 3.1 | 77 |
| 97 | Bifunctional cis-Abienol Synthase from <i>Abies balsamea</i> Discovered by Transcriptome Sequencing and Its Implications for Diterpenoid Fragrance Production. <i>Journal of Biological Chemistry</i> , 2012, 287, 12121-12131. | 3.4 | 75 |
| 98 | Ethylene in induced conifer defense: cDNA cloning, protein expression, and cellular and subcellular localization of 1-aminocyclopropane-1-carboxylate oxidase in resin duct and phenolic parenchyma cells. <i>Planta</i> , 2006, 224, 865-877. | 3.2 | 74 |
| 99 | Gene Discovery for Enzymes Involved in Limonene Modification or Utilization by the Mountain Pine Beetle-Associated Pathogen <i>Grosmannia clavigera</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 4566-4576. | 3.1 | 74 |
| 100 | GENOMIC HARDWIRING AND PHENOTYPIC PLASTICITY OF TERPENOID-BASED DEFENSES IN CONIFERS. <i>Journal of Chemical Ecology</i> , 2004, 30, 2399-2418. | 1.8 | 73 |
| 101 | The versatility of the fungal cytochrome P450 monooxygenase system is instrumental in xenobiotic detoxification. <i>Molecular Microbiology</i> , 2011, 81, 1374-1389. | 2.5 | 73 |
| 102 | Responses of Bark Beetle-Associated Bacteria to Host Monoterpenes and Their Relationship to Insect Life Histories. <i>Journal of Chemical Ecology</i> , 2011, 37, 808-817. | 1.8 | 73 |
| 103 | Genome-wide analysis of a land plant-specific acyl:coenzymeA synthetase (<i>ACS</i>) gene family in <i>Arabidopsis</i> , poplar, rice and <i>Physcomitrella</i> . <i>New Phytologist</i> , 2008, 179, 987-1003. | 7.3 | 72 |
| 104 | Isolation of cDNAs and functional characterisation of two multi-product terpene synthase enzymes from sandalwood, <i>Santalum album</i> L.. <i>Archives of Biochemistry and Biophysics</i> , 2008, 477, 121-130. | 3.0 | 72 |
| 105 | The genome and transcriptome of the pine saprophyte <i>Ophiostoma piceae</i> , and a comparison with the bark beetle-associated pine pathogen <i>Grosmannia clavigera</i> . <i>BMC Genomics</i> , 2013, 14, 373. | 2.8 | 72 |
| 106 | Flavan-3-ols in Norway Spruce: Biosynthesis, Accumulation, and Function in Response to Attack by the Bark Beetle-Associated Fungus <i>Ceratoscytis polonica</i> . <i>Plant Physiology</i> , 2014, 164, 2107-2122. | 4.8 | 72 |
| 107 | Characterization of four terpene synthase cDNAs from methyl jasmonate-induced Douglas-fir, <i>Pseudotsuga menziesii</i> . <i>Phytochemistry</i> , 2005, 66, 1427-1439. | 2.9 | 70 |
| 108 | A physical map of the highly heterozygous <i>Populus</i> genome: integration with the genome sequence and genetic map and analysis of haplotype variation. <i>Plant Journal</i> , 2007, 50, 1063-1078. | 5.7 | 70 |

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|-----|---|-----|-----------|
| 109 | How the Mountain Pine Beetle (<i>Dendroctonus ponderosae</i>) Breached the Canadian Rocky Mountains. <i>Molecular Biology and Evolution</i> , 2014, 31, 1803-1815. | 8.9 | 70 |
| 110 | Analysis of 4,664 high-quality sequence-finished poplar full-length cDNA clones and their utility for the discovery of genes responding to insect feeding. <i>BMC Genomics</i> , 2008, 9, 57. | 2.8 | 68 |
| 111 | ntEdit: scalable genome sequence polishing. <i>Bioinformatics</i> , 2019, 35, 4430-4432. | 4.1 | 67 |
| 112 | Poplar defense against insect herbivores This review is one of a selection of papers published in the Special Issue on Poplar Research in Canada.. <i>Canadian Journal of Botany</i> , 2007, 85, 1111-1126. | 1.1 | 65 |
| 113 | Diterpene synthases of the biosynthetic system of medicinally active diterpenoids in <i>Marrubium vulgare</i> . <i>Plant Journal</i> , 2014, 79, 914-927. | 5.7 | 62 |
| 114 | Global and comparative proteomic profiling of overwintering and developing mountain pine beetle, <i>Dendroctonus ponderosae</i> (Coleoptera: Curculionidae), larvae. <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 890-901. | 2.7 | 61 |
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