

Christopher I Keeling

List of Publications by Year in descending order

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66
papers

5,276
citations

109321

35
h-index

110387

64
g-index

70
all docs

70
docs citations

70
times ranked

5108
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Terpenoid biomaterials. <i>Plant Journal</i> , 2008, 54, 656-669.	5.7	423
3	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
4	The effect of queen pheromones on worker honey bee ovary development. <i>Die Naturwissenschaften</i> , 2003, 90, 477-480.	1.6	288
5	Diterpene resin acids in conifers. <i>Phytochemistry</i> , 2006, 67, 2415-2423.	2.9	284
6	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
7	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
8	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
9	New components of the honey bee (<i>Apis mellifera</i> L.) queen retinue pheromone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 4486-4491.	7.1	179
10	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
11	Insights into Conifer Giga-Genomes. <i>Plant Physiology</i> , 2014, 166, 1724-1732.	4.8	164
12	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
13	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
14	An integrated genomic, proteomic and biochemical analysis of (+)- α - β -caryophyllene 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
15	Identification and Functional Characterization of Monofunctional α -Copalyl Diphosphate and α -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
16	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
17	Toxicity of Pine Monoterpenes to Mountain Pine Beetle. <i>Scientific Reports</i> , 2017, 7, 8858.	3.3	85
18	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

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19	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
20	Genomic content of chemosensory genes correlates with host range in wood-boring beetles (<i>Dendroctonus ponderosae</i> , <i>Agrilus planipennis</i> , and <i>Anoplophora glabripennis</i>). <i>BMC Genomics</i> , 2019, 20, 690.	2.8	69
21	Coordinated gene expression for pheromone biosynthesis in the pine engraver beetle, <i>Ips pini</i> (Coleoptera: Scolytidae). <i>Die Naturwissenschaften</i> , 2004, 91, 324-8.	1.6	67
22	Functional genomics of mountain pine beetle (<i>Dendroctonus ponderosae</i>) midguts and fat bodies. <i>BMC Genomics</i> , 2010, 11, 215.	2.8	63
23	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
24	CYP345E2, an antenna-specific cytochrome P450 from the mountain pine beetle, <i>Dendroctonus ponderosae</i> Hopkins, catalyses the oxidation of pine host monoterpene volatiles. <i>Insect Biochemistry and Molecular Biology</i> , 2013, 43, 1142-1151.	2.7	61
25	Microarray expression profiling and functional characterization of AtTPS genes: Duplicated <i>Arabidopsis thaliana</i> sesquiterpene synthase genes At4g13280 and At4g13300 encode root-specific and wound-inducible (Z)- β -bisabolene synthases. <i>Archives of Biochemistry and Biophysics</i> , 2006, 448, 104-116.	3.0	60
26	Hymenopteran Semiochemicals. <i>Topics in Current Chemistry</i> , 2004, 239, 133-177.	4.0	57
27	Transcriptome resources and functional characterization of monoterpene synthases for two host species of the mountain pine beetle, lodgepole pine (<i>Pinus contorta</i>) and jack pine (<i>Pinus banksiana</i>). <i>BMC Plant Biology</i> , 2013, 13, 80.	3.6	57
28	Disentangling Detoxification: Gene Expression Analysis of Feeding Mountain Pine Beetle Illuminates Molecular-Level Host Chemical Defense Detoxification Mechanisms. <i>PLoS ONE</i> , 2013, 8, e77777.	2.5	57
29	Effects of juvenile hormone on gene expression in the pheromone-producing midgut of the pine engraver beetle, <i>Ips pini</i> . <i>Insect Molecular Biology</i> , 2006, 15, 207-216.	2.0	55
30	Targeted isolation, sequence assembly and characterization of two white spruce (<i>Picea glauca</i>) BAC clones for terpenoid synthase and cytochrome P450 genes involved in conifer defence reveal insights into a conifer genome. <i>BMC Plant Biology</i> , 2009, 9, 106.	3.6	55
31	The Primary Diterpene Synthase Products of <i>Picea abies</i> Levopimaradiene/Abietadiene Synthase (PaLAS) Are Epimers of a Thermally Unstable Diterpenol. <i>Journal of Biological Chemistry</i> , 2011, 286, 21145-21153.	3.4	52
32	Comparison of gene representation in midguts from two phytophagous insects, <i>Bombyx mori</i> and <i>Ips pini</i> , using expressed sequence tags. <i>Gene</i> , 2003, 316, 127-136.	2.2	46
33	The cytochrome P450 CYP6DE1 catalyzes the conversion of β -pinene into the mountain pine beetle aggregation pheromone trans-verbenol. <i>Scientific Reports</i> , 2019, 9, 1477.	3.3	46
34	Monoterpenyl esters in juvenile mountain pine beetle and sex-specific release of the aggregation pheromone trans-verbenol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3652-3657.	7.1	41
35	Frontalin pheromone biosynthesis in the mountain pine beetle, <i>Dendroctonus ponderosae</i> , and the role of isoprenyl diphosphate synthases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18838-18843.	7.1	40
36	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 December 2010–31 January 2011. <i>Molecular Ecology Resources</i> , 2011, 11, 586-589.	4.8	38

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37	Quantitative metabolome, proteome and transcriptome analysis of midgut and fat body tissues in the mountain pine beetle, <i>Dendroctonus ponderosae</i> Hopkins, and insights into pheromone biosynthesis. <i>Insect Biochemistry and Molecular Biology</i> , 2016, 70, 170-183.	2.7	37
38	Seasonal shifts in accumulation of glycerol biosynthetic gene transcripts in mountain pine beetle, <i>Dendroctonus ponderosae</i> Hopkins (Coleoptera: Curculionidae), larvae. <i>PeerJ</i> , 2017, 5, e3284.	2.0	37
39	Proteomics Indicators of the Rapidly Shifting Physiology from Whole Mountain Pine Beetle, <i>Dendroctonus ponderosae</i> (Coleoptera: Curculionidae), Adults during Early Host Colonization. <i>PLoS ONE</i> , 2014, 9, e110673.	2.5	30
40	Mandibular gland component analysis in the head extracts of <i>Apis cerana</i> and <i>Apis nigrocincta</i> . <i>Apidologie</i> , 2001, 32, 243-252.	2.0	27
41	Queen and pheromonal factors influencing comb construction by simulated honey bee (<i>Apis mellifera</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.2	25
42	Gene discovery for the bark beetle-vectored fungal tree pathogen <i>Grosmannia clavigera</i> . <i>BMC Genomics</i> , 2010, 11, 536.	2.8	25
43	Cytochromes P450: terpene detoxification and pheromone production in bark beetles. <i>Current Opinion in Insect Science</i> , 2021, 43, 97-102.	4.4	25
44	Gene expression analysis of overwintering mountain pine beetle larvae suggests multiple systems involved in overwintering stress, cold hardiness, and preparation for spring development. <i>PeerJ</i> , 2016, 4, e2109.	2.0	23
45	Isolation, endocrine regulation and mRNA distribution of the 3-hydroxy-3-methylglutaryl coenzyme A synthase (HMG-S) gene from the pine engraver, <i>Ips pini</i> (Coleoptera: Scolytidae). <i>Insect Molecular Biology</i> , 2006, 15, 187-195.	2.0	22
46	Immunofluorescence localization of levopimaradiene/abietadiene synthase in methyl jasmonate treated stems of Sitka spruce (<i>Picea sitchensis</i>) shows activation of diterpenoid biosynthesis in cortical and developing traumatic resin ducts. <i>Phytochemistry</i> , 2010, 71, 1695-1699.	2.9	21
47	Cytochromes P450 Preferentially Expressed in Antennae of the Mountain Pine Beetle. <i>Journal of Chemical Ecology</i> , 2019, 45, 178-186.	1.8	20
48	Functions of mountain pine beetle cytochromes P450 CYP6DJ1, CYP6BW1 and CYP6BW3 in the oxidation of pine monoterpenes and diterpene resin acids. <i>PLoS ONE</i> , 2019, 14, e0216753.	2.5	16
49	Title is missing!. <i>Journal of Chemical Ecology</i> , 2000, 26, 667-677.	1.8	15
50	Changes in the intramolecular stable carbon isotope ratios with age of the European cave bear (<i>Ursus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.0	15
51	Quantitative analysis of the mandibular gland components of the dwarf honey bee (<i>Apis florea</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	2.0	11
52	Chromosome-level genome assembly reveals genomic architecture of northern range expansion in the mountain pine beetle, <i>Dendroctonus ponderosae</i> Hopkins (Coleoptera: Curculionidae). <i>Molecular Ecology Resources</i> , 2022, 22, 1149-1167.	4.8	11
53	STABLE CARBON ISOTOPE MEASUREMENTS OF THE CARBOXYL CARBONS IN BONE COLLAGEN. <i>Archaeometry</i> , 1999, 41, 151-164.	1.3	9
54	Antennally mediated negative feedback regulation of pheromone production in the pine engraver beetle, <i>Ips pini</i> . <i>Die Naturwissenschaften</i> , 2006, 94, 61-64.	1.6	8

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55	Bark Beetle Research in the Postgenomic Era. <i>Advances in Insect Physiology</i> , 2016, 50, 265-293.	2.7	8
56	Some Insights into the Remarkable Metabolism of the Bark Beetle Midgut. <i>Recent Advances in Phytochemistry</i> , 2005, , 57-78.	0.5	7
57	A scientific note on the aliphatic esters in queen honey bees. <i>Apidologie</i> , 2005, 36, 559-560.	2.0	7
58	Preparative chiral liquid chromatography for enantiomeric separation of pheromones. <i>Journal of Chemical Ecology</i> , 2001, 27, 487-497.	1.8	6
59	LINEATIN ENANTIOMER PREFERENCE, FLIGHT PERIODS, AND EFFECT OF PHEROMONE CONCENTRATION AND TRAP LENGTH ON THREE SYMPATRIC SPECIES OF <i>TRYPODENDRON</i> (COLEOPTERA: SCOLYTIDAE). <i>Canadian Entomologist</i> , 2000, 132, 877-887.	0.8	5
60	Isolation, endocrine regulation and transcript distribution of a putative primary JH-responsive gene from the pine engraver, <i>Ips pini</i> (Coleoptera: Scolytidae). <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 256-267.	2.7	4
61	Resin vesicles in conifer seeds: morphology and allelopathic effects. <i>Canadian Journal of Forest Research</i> , 2018, 48, 1515-1525.	1.7	4
62	The genome of the forest insect pest <i>Pissodes strobi</i> reveals genome expansion and evidence of a <i>Wolbachia</i> endosymbiont. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	1.8	4
63	Pheromone production in bark beetles. , 2021, , 123-162.		3
64	The Spruce Budworm Genome: Reconstructing the Evolutionary History of Antifreeze Proteins. <i>Genome Biology and Evolution</i> , 2022, 14, .	2.5	3
65	Biomarkers and gene copy number variation for terpenoid traits associated with insect resistance in Sitka spruce: An integrated genomic, proteomic, and biochemical analysis of (+)-3-carene biosynthesis. <i>BMC Proceedings</i> , 2011, 5, .	1.6	1
66	Targeted Isolation Sequence Assembly and Characterization of White Spruce. , 2011, , 5-20.		0