Christopher I Keeling

List of Publications by Year
in descending order

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	Chromosomeâ€level genome assembly reveals genomic architecture of northern range expansion in the mountain pine beetle, <i>Dendroctonus ponderosae</i> Hopkins (Coleoptera: Curculionidae). Molecular Ecology Resources, 2022, 22, 1149-1167.	4.8	11
2	The genome of the forest insect pest <i>Pissodes strobi</i> reveals genome expansion and evidence of a <i>Wolbachia</i> endosymbiont. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	4
3	The Spruce Budworm Genome: Reconstructing the Evolutionary History of Antifreeze Proteins. Genome Biology and Evolution, 2022, 14, .	2.5	3
4	Pheromone production in bark beetles. , 2021, , 123-162.		3
5	Cytochromes P450: terpene detoxification and pheromone production in bark beetles. Current Opinion in Insect Science, 2021, 43, 97-102.	4.4	25
6	Cytochromes P450 Preferentially Expressed in Antennae of the Mountain Pine Beetle. Journal of Chemical Ecology, 2019, 45, 178-186.	1.8	20
7	Genomic content of chemosensory genes correlates with host range in wood-boring beetles (Dendroctonus ponderosae, Agrilus planipennis, and Anoplophora glabripennis). BMC Genomics, 2019, 20, 690.	2.8	69
8	Functions of mountain pine beetle cytochromes P450 CYP6DJ1, CYP6BW1 and CYP6BW3 in the oxidation of pine monoterpenes and diterpene resin acids. PLoS ONE, 2019, 14, e0216753.	2.5	16
9	The cytochrome P450 CYP6DE1 catalyzes the conversion of Î±-pinene into the mountain pine beetle aggregation pheromone trans-verbenol. Scientific Reports, 2019, 9, 1477.	3.3	46
10	Monoterpenyl esters in juvenile mountain pine beetle and sex-specific release of the aggregation pheromone <i>trans</i> -verbenol. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3652-3657.	7.1	41
11	Resin vesicles in conifer seeds: morphology and allelopathic effects. Canadian Journal of Forest Research, 2018, 48, 1515-1525.	1.7	4
12	Toxicity of Pine Monoterpenes to Mountain Pine Beetle. Scientific Reports, 2017, 7, 8858.	3.3	85
13	Seasonal shifts in accumulation of glycerol biosynthetic gene transcripts in mountain pine beetle,<i>Dendroctonus ponderosae</i>Hopkins (Coleoptera: Curculionidae), larvae. PeerJ, 2017, 5, e3284.	2.0	37
14	Bark Beetle Research in the Postgenomic Era. Advances in Insect Physiology, 2016, 50, 265-293.	2.7	8
15	Quantitative metabolome, proteome and transcriptome analysis of midgut and fat body tissues in the mountain pine beetle, Dendroctonus ponderosae Hopkins, and insights into pheromone biosynthesis. Insect Biochemistry and Molecular Biology, 2016, 70, 170-183.	2.7	37
16	Gene expression analysis of overwintering mountain pine beetle larvae suggests multiple systems involved in overwintering stress, cold hardiness, and preparation for spring development. PeerJ, 2016, 4, e2109.	2.0	23
17	Improved white spruce (<i>Picea glauca</i>) genome assemblies and annotation of large gene families of conifer terpenoid and phenolic defense metabolism. Plant Journal, 2015, 83, 189-212.	5.7	200
18	How the Mountain Pine Beetle (Dendroctonus ponderosae) Breached the Canadian Rocky Mountains. Molecular Biology and Evolution, 2014, 31, 1803-1815.	8.9	70

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19	Proteomics Indicators of the Rapidly Shifting Physiology from Whole Mountain Pine Beetle, Dendroctonus ponderosae (Coleoptera: Curculionidae), Adults during Early Host Colonization. PLoS ONE, 2014, 9, e110673.	2.5	30
20	Insights into Conifer Giga-Genomes. Plant Physiology, 2014, 166, 1724-1732.	4.8	164
21	Draft genome of the mountain pine beetle, Dendroctonus ponderosae Hopkins, a major forest pest. Genome Biology, 2013, 14, R27.	9.6	260
22	Antennal transcriptome analysis of the chemosensory gene families in the tree killing bark beetles, Ips typographus and Dendroctonus ponderosae (Coleoptera: Curculionidae: Scolytinae). BMC Genomics, 2013, 14, 198.	2.8	216
23	Transcriptome resources and functional characterization of monoterpene synthases for two host species of the mountain pine beetle, lodgepole pine (Pinus contorta) and jack pine (Pinus banksiana). BMC Plant Biology, 2013, 13, 80.	3.6	57
24	CYP345E2, an antenna-specific cytochrome P450 from the mountain pine beetle, Dendroctonus ponderosae Hopkins, catalyses the oxidation of pine host monoterpene volatiles. Insect Biochemistry and Molecular Biology, 2013, 43, 1142-1151.	2.7	61
25	Assembling the 20 Gb white spruce (<i>Picea glauca</i>) genome from whole-genome shotgun sequencing data. Bioinformatics, 2013, 29, 1492-1497.	4.1	356
26	Frontalin pheromone biosynthesis in the mountain pine beetle, <i>Dendroctonus ponderosae</i> , and the role of isoprenyl diphosphate synthases. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18838-18843.	7.1	40
27	Disentangling Detoxification: Gene Expression Analysis of Feeding Mountain Pine Beetle Illuminates Molecular-Level Host Chemical Defense Detoxification Mechanisms. PLoS ONE, 2013, 8, e77777.	2.5	57
28	Biosynthesis of Sandalwood Oil: Santalum album CYP76F Cytochromes P450 Produce Santalols and Bergamotol. PLoS ONE, 2013, 8, e75053.	2.5	117
29	Transcriptome and full-length cDNA resources for the mountain pine beetle, Dendroctonus ponderosae Hopkins, a major insect pest of pine forests. Insect Biochemistry and Molecular Biology, 2012, 42, 525-536.	2.7	93
30	Global and comparative proteomic profiling of overwintering and developing mountain pine beetle, Dendroctonus ponderosae (Coleoptera: Curculionidae), larvae. Insect Biochemistry and Molecular Biology, 2012, 42, 890-901.	2.7	61
31	The Primary Diterpene Synthase Products of Picea abies Levopimaradiene/Abietadiene Synthase (PaLAS) Are Epimers of a Thermally Unstable Diterpenol. Journal of Biological Chemistry, 2011, 286, 21145-21153.	3.4	52
32	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 December 2010â€“31 January 2011. Molecular Ecology Resources, 2011, 11, 586-589.	4.8	38
33	An integrated genomic, proteomic and biochemical analysis of (+)â€3â€carene biosynthesis in Sitka spruce (<i>Picea sitchensis</i>) genotypes that are resistant or susceptible to white pine weevil. Plant Journal, 2011, 65, 936-948.	5.7	116
34	Transcriptome mining, functional characterization, and phylogeny of a large terpene synthase gene family in spruce (Piceaspp.). BMC Plant Biology, 2011, 11, 43.	3.6	120
35	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. BMC Proceedings, 2011, 5, .	1.6	1
36	Targeted Isolation Sequence Assembly and Characterization of White Spruce. , 2011, , 5-20.		0

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37	Functional genomics of mountain pine beetle (Dendroctonus ponderosae) midguts and fat bodies. BMC Genomics, 2010, 11, 215.	2.8	63
38	Gene discovery for the bark beetle-vectored fungal tree pathogen Grosmannia clavigera. BMC Genomics, 2010, 11, 536.	2.8	25
39	Immunofluorescence localization of levopimaradiene/abietadiene synthase in methyl jasmonate treated stems of Sitka spruce (Picea sitchensis) shows activation of diterpenoid biosynthesis in cortical and developing traumatic resin ducts. Phytochemistry, 2010, 71, 1695-1699.	2.9	21
40	Identification and Functional Characterization of Monofunctional<i>ent</i>-Copalyl Diphosphate and<i>ent</i>-Kaurene Synthases in White Spruce Reveal Different Patterns for Diterpene Synthase Evolution for Primary and Secondary Metabolism in Gymnosperms. Plant Physiology, 2010, 152, 1197-1208.	4.8	99
41	Targeted isolation, sequence assembly and characterization of two white spruce (Picea glauca) BAC clones for terpenoid synthase and cytochrome P450 genes involved in conifer defence reveal insights into a conifer genome. BMC Plant Biology, 2009, 9, 106.	3.6	55
42	Terpenoid biomaterials. Plant Journal, 2008, 54, 656-669.	5.7	423
43	Isolation, endocrine regulation and transcript distribution of a putative primary JH-responsive gene from the pine engraver, Ips pini (Coleoptera: Scolytidae). Insect Biochemistry and Molecular Biology, 2008, 38, 256-267.	2.7	4
44	Isolation of cDNAs and functional characterisation of two multi-product terpene synthase enzymes from sandalwood, Santalum album L.. Archives of Biochemistry and Biophysics, 2008, 477, 121-130.	3.0	72
45	Functional plasticity of paralogous diterpene synthases involved in conifer defense. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1085-1090.	7.1	178
46	Microarray expression profiling and functional characterization of AtTPS genes: Duplicated Arabidopsis thaliana sesquiterpene synthase genes At4g13280 and At4g13300 encode root-specific and wound-inducible (Z)-Î^3-bisabolene synthases. Archives of Biochemistry and Biophysics, 2006, 448, 104-116.	3.0	60
47	Genes, enzymes and chemicals of terpenoid diversity in the constitutive and induced defence of conifers against insects and pathogens*. New Phytologist, 2006, 170, 657-675.	7.3	593
48	Isolation, endocrine regulation and mRNA distribution of the 3-hydroxy-3-methylglutaryl coenzyme A synthase (HMG-S) gene from the pine engraver, Ips pini (Coleoptera: Scolytidae). Insect Molecular Biology, 2006, 15, 187-195.	2.0	22
49	Effects of juvenile hormone on gene expression in the pheromone-producing midgut of the pine engraver beetle, Ips pini. Insect Molecular Biology, 2006, 15, 207-216.	2.0	55
50	Antennally mediated negative feedback regulation of pheromone production in the pine engraver beetle, Ips pini. Die Naturwissenschaften, 2006, 94, 61-64.	1.6	8
51	Diterpene resin acids in conifers. Phytochemistry, 2006, 67, 2415-2423.	2.9	284
52	Some Insights into the Remarkable Metabolism of the Bark Beetle Midgut. Recent Advances in Phytochemistry, 2005, , 57-78.	0.5	7
53	A scientific note on the aliphatic esters in queen honey bees. Apidologie, 2005, 36, 559-560.	2.0	7
54	Coordinated gene expression for pheromone biosynthesis in the pine engraver beetle, Ips pini (Coleoptera: Scolytidae). Die Naturwissenschaften, 2004, 91, 324-8.	1.6	67

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55	Hymenopteran Semiochemicals. Topics in Current Chemistry, 2004, 239, 133-177.	4.0	57
56	The effect of queen pheromones on worker honey bee ovary development. Die Naturwissenschaften, 2003, 90, 477-480.	1.6	288
57	Comparison of gene representation in midguts from two phytophagous insects, Bombyx mori and Ips pini, using expressed sequence tags. Gene, 2003, 316, 127-136.	2.2	46
58	New components of the honey bee (Apis mellifera L.) queen retinue pheromone. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4486-4491.	7.1	179
59	Mandibular gland component analysis in the head extracts of Apis cerana and Apis nigrocincta. Apidologie, 2001, 32, 243-252.	2.0	27
60	Queen and pheromonal factors influencing comb construction by simulated honey bee (Apis mellifera) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.2	25
61	Changes in the intramolecular stable carbon isotope ratios with age of the European cave bear (Ursus) Tj ETQq1 1 0.784314 rgBT /Overl	2.0	15
62	Preparative chiral liquid chromatography for enantiomeric separation of pheromones. Journal of Chemical Ecology, 2001, 27, 487-497.	1.8	6
63	Title is missing!. Journal of Chemical Ecology, 2000, 26, 667-677.	1.8	15
64	Quantitative analysis of the mandibular gland components of the dwarf honey bee (Apis florea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	2.0	11
65	LINEATIN ENANTIOMER PREFERENCE, FLIGHT PERIODS, AND EFFECT OF PHEROMONE CONCENTRATION AND TRAP LENGTH ON THREE SYMPATRIC SPECIES OF <i>TRYPODENDRON</i> (COLEOPTERA: SCOLYTIDAE). Canadian Entomologist, 2000, 132, 877-887.	0.8	5
66	STABLE CARBON ISOTOPE MEASUREMENTS OF THE CARBOXYL CARBONS IN BONE COLLAGEN. Archaeometry, 1999, 41, 151-164.	1.3	9