

Carl J Douglas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1699615/publications.pdf>

Version: 2024-02-01

92
papers

9,435
citations

30070

54
h-index

42399

92
g-index

94
all docs

94
docs citations

94
times ranked

9728
citing authors

#	ARTICLE	IF	CITATIONS
1	Scale and direction of adaptive introgression between black cottonwood (<i>Populus trichocarpa</i>) and European larch (<i>Larix laricina</i>). <i>Evolution</i> , 2018, 72, 1074-1084.	3.9	25
2	Overexpression of AtGOLS3 and CsRFS in poplar enhances ROS tolerance and represses defense response to leaf rust disease. <i>Tree Physiology</i> , 2018, 38, 457-470.	3.1	23
3	Introgression from <i>Populus balsamifera</i> underlies adaptively significant variation and range boundaries in <i>Populus trichocarpa</i> . <i>New Phytologist</i> , 2018, 217, 416-427.	7.3	36
4	Populus as a Model Tree. <i>Plant Genetics and Genomics: Crops and Models</i> , 2017, , 61-84.	0.3	5
5	Sexual epigenetics: gender-specific methylation of a gene in the sex determining region of <i>Populus balsamifera</i> . <i>Scientific Reports</i> , 2017, 7, 45388.	3.3	59
6	Sexual homomorphism in dioecious trees: extensive tests fail to detect sexual dimorphism in <i>Populus</i> . <i>Scientific Reports</i> , 2017, 7, 1831.	3.3	54
7	Role of Glycosyltransferases in Pollen Wall Primexine Formation and Exine Patterning. <i>Plant Physiology</i> , 2017, 173, 167-182.	4.8	44
8	Functional network analysis of genes differentially expressed during xylogenesis in woody <i>Arabidopsis</i> plants. <i>Plant Journal</i> , 2016, 86, 376-390.	5.7	27
9	Genomic and functional approaches reveal a case of adaptive introgression from <i>Populus balsamifera</i> (balsam poplar) in <i>Populus trichocarpa</i> (black cottonwood). <i>Molecular Ecology</i> , 2016, 25, 2427-2442.	3.9	85
10	Gene Expression Patterns of Wood Decay Fungi <i>Postia placenta</i> and <i>Phanerochaete chrysosporium</i> Are Influenced by Wood Substrate Composition during Degradation. <i>Applied and Environmental Microbiology</i> , 2016, 82, 4387-4400.	3.1	35
11	Spatially and temporally restricted expression of PtrMYB021 regulates secondary cell wall formation in <i>Arabidopsis</i> . <i>Journal of Plant Biology</i> , 2016, 59, 16-23.	2.1	9
12	Genetic differentiation of the regional <i>Plutella xylostella</i> populations across the Taiwan Strait based on identification of microsatellite markers. <i>Ecology and Evolution</i> , 2015, 5, 5880-5891.	1.9	3
13	Evolutionary Quantitative Genomics of <i>Populus trichocarpa</i> . <i>PLoS ONE</i> , 2015, 10, e0142864.	2.5	31
14	Comparative interrogation of the developing xylem transcriptomes of two wood-forming species: <i>Populus trichocarpa</i> and <i>Eucalyptus grandis</i> . <i>New Phytologist</i> , 2015, 206, 1391-1405.	7.3	47
15	A role for OVATE FAMILY PROTEIN1 (OFP1) and OFP4 in a BLH6-KNAT7 multi-protein complex regulating secondary cell wall formation in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2015, 10, e1033126.	2.4	50
16	High-resolution genetic mapping of allelic variants associated with cell wall chemistry in <i>Populus</i> . <i>BMC Genomics</i> , 2015, 16, 24.	2.8	106
17	Comparative analysis of plant carbohydrate active enzymes and their role in xylogenesis. <i>BMC Genomics</i> , 2015, 16, 402.	2.8	23
18	BEL1-LIKE HOMEODOMAIN6 and KNOTTED ARABIDOPSIS THALIANA7 Interact and Regulate Secondary Cell Wall Formation via Repression of <i>REVOLUTA</i> . <i>Plant Cell</i> , 2015, 26, 4843-4861.	6.6	124

#	ARTICLE	IF	CITATIONS
19	The biosynthesis, composition and assembly of the outer pollen wall: A tough case to crack. <i>Phytochemistry</i> , 2015, 113, 170-182.	2.9	194
20	ABCG26-Mediated Polyketide Trafficking and Hydroxycinnamoyl Spermidines Contribute to Pollen Wall Exine Formation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 4483-4498.	6.6	84
21	LANDSCAPE GENOMICS OF <i>POPULUS TRICHOCARPA</i> : THE ROLE OF HYBRIDIZATION, LIMITED GENE FLOW, AND NATURAL SELECTION IN SHAPING PATTERNS OF POPULATION STRUCTURE. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 3260-3280.	2.3	88
22	New views of tapetum ultrastructure and pollen exine development in <i>Arabidopsis thaliana</i> . <i>Annals of Botany</i> , 2014, 114, 1189-1201.	2.9	117
23	Whole plastome sequencing reveals deep plastid divergence and cytonuclear discordance between closely related balsam poplars, <i>Populus balsamifera</i> and <i>Populus trichocarpa</i> (<i>Salicaceae</i>). <i>New Phytologist</i> , 2014, 204, 693-703.	7.3	105
24	Extensive Functional Pleiotropy of REVOLUTA Substantiated through Forward Genetics. <i>Plant Physiology</i> , 2014, 164, 548-554.	4.8	17
25	Geographical and environmental gradients shape phenotypic trait variation and genetic structure in <i>Populus trichocarpa</i> . <i>New Phytologist</i> , 2014, 201, 1263-1276.	7.3	185
26	<i>Arabidopsis</i> VASCULAR-RELATED UNKNOWN PROTEIN1 Regulates Xylem Development and Growth by a Conserved Mechanism That Modulates Hormone Signaling. <i>Plant Physiology</i> , 2014, 164, 1991-2010.	4.8	5
27	Manipulating lignin deposition. <i>Canadian Journal of Plant Science</i> , 2014, 94, 1043-1049.	0.9	2
28	Genome-wide association implicates numerous genes underlying ecological trait variation in natural populations of <i>Populus trichocarpa</i> . <i>New Phytologist</i> , 2014, 203, 535-553.	7.3	171
29	Isolation, identification and cyfluthrin-degrading potential of a novel <i>Lysinibacillus sphaericus</i> strain, FLQ-11-1. <i>Research in Microbiology</i> , 2014, 165, 110-118.	2.1	37
30	Regulation of secondary cell wall biosynthesis by poplar R2R3 MYB transcription factor PtrMYB152 in <i>Arabidopsis</i> . <i>Scientific Reports</i> , 2014, 4, 5054.	3.3	106
31	Gene expression patterns underlying changes in xylem structure and function in response to increased nitrogen availability in hybrid poplar. <i>Plant, Cell and Environment</i> , 2013, 36, 186-199.	5.7	98
32	Genome-wide association mapping for wood characteristics in <i>Populus</i> identifies an array of candidate single nucleotide polymorphisms. <i>New Phytologist</i> , 2013, 200, 710-726.	7.3	158
33	The interacting MYB75 and KNAT7 transcription factors modulate secondary cell wall deposition both in stems and seed coat in <i>Arabidopsis</i> . <i>Planta</i> , 2013, 237, 1199-1211.	3.2	78
34	R2R3 MYB transcription factor PtrMYB192 regulates flowering time in <i>Arabidopsis</i> by activating FLOWERING LOCUS C. <i>Journal of Plant Biology</i> , 2013, 56, 243-250.	2.1	27
35	Sporopollenin monomer biosynthesis in <i>Arabidopsis</i> . <i>Journal of Plant Biology</i> , 2013, 56, 1-6.	2.1	36
36	A heterozygous moth genome provides insights into herbivory and detoxification. <i>Nature Genetics</i> , 2013, 45, 220-225.	21.4	472

#	ARTICLE	IF	CITATIONS
37	<i>Populus trichocarpa</i> cell wall chemistry and ultrastructure trait variation, genetic control and genetic correlations. <i>New Phytologist</i> , 2013, 197, 777-790.	7.3	100
38	Syringyl-Rich Lignin Renders Poplars More Resistant to Degradation by Wood Decay Fungi. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2560-2571.	3.1	108
39	Network analysis reveals the relationship among wood properties, gene expression levels and genotypes of natural <i>Populus trichocarpa</i> accessions. <i>New Phytologist</i> , 2013, 200, 727-742.	7.3	37
40	Abaxial Greening Phenotype in Hybrid Aspen. <i>Plants</i> , 2013, 2, 279-301.	3.5	0
41	Association Analysis Identifies <i>Melampsora columbiana</i> Poplar Leaf Rust Resistance SNPs. <i>PLoS ONE</i> , 2013, 8, e78423.	2.5	31
42	Antagonistic Interaction of <i>BLADE-ON-PETIOLE1</i> and 2 with <i>BREVIPEDICELLUS</i> and <i>PENNYWISE</i> Regulates <i>Arabidopsis</i> Inflorescence Architecture. <i>Plant Physiology</i> , 2012, 158, 946-960.	4.8	65
43	Genome resequencing reveals multiscale geographic structure and extensive linkage disequilibrium in the forest tree <i>Populus trichocarpa</i> . <i>New Phytologist</i> , 2012, 196, 713-725.	7.3	173
44	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
45	<i>AtMYB61</i> , an R2R3-MYB transcription factor, functions as a pleiotropic regulator via a small gene network. <i>New Phytologist</i> , 2012, 195, 774-786.	7.3	132
46	The Class II <i>KNOX</i> gene <i>KNAT7</i> negatively regulates secondary wall formation in <i>Arabidopsis</i> and is functionally conserved in <i>Populus</i> . <i>New Phytologist</i> , 2012, 194, 102-115.	7.3	186
47	SNP discovery in black cottonwood (<i>Populus trichocarpa</i>) by population transcriptome resequencing. <i>Molecular Ecology Resources</i> , 2011, 11, 81-92.	4.8	104
48	<i>LAP6/POLYKETIDE SYNTHASE A</i> and <i>LAP5/POLYKETIDE SYNTHASE B</i> Encode Hydroxyalkyl β -Pyrone Synthases Required for Pollen Development and Sporopollenin Biosynthesis in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2011, 22, 4045-4066.	6.6	188
49	OVATE FAMILY PROTEIN4 (OFP4) interaction with <i>KNAT7</i> regulates secondary cell wall formation in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2011, 67, 328-341.	5.7	151
50	PpASCL, a moss ortholog of anther-specific chalcone synthase-like enzymes, is a hydroxyalkylpyrone synthase involved in an evolutionarily conserved sporopollenin biosynthesis pathway. <i>New Phytologist</i> , 2011, 192, 855-868.	7.3	48
51	Analysis of <i>TETRAKETIDE β-PYRONE REDUCTASE</i> Function in <i>Arabidopsis thaliana</i> Reveals a Previously Unknown, but Conserved, Biochemical Pathway in Sporopollenin Monomer Biosynthesis. <i>Plant Cell</i> , 2011, 22, 4067-4083.	6.6	181
52	ATP-Binding Cassette Transporter G26 Is Required for Male Fertility and Pollen Exine Formation in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2010, 154, 678-690.	4.8	161
53	Chromoplasts ultrastructure and estimated carotene content in root secondary phloem of different carrot varieties. <i>Planta</i> , 2010, 231, 549-558.	3.2	78
54	Over-expression of <i>Arabidopsis thaliana</i> carotenoid hydroxylases individually and in combination with a β -carotene ketolase provides insight into in vivo functions. <i>Phytochemistry</i> , 2010, 71, 168-178.	2.9	53

#	ARTICLE	IF	CITATIONS
55	MYB75 Functions in Regulation of Secondary Cell Wall Formation in the Arabidopsis Inflorescence Stem. <i>Plant Physiology</i> , 2010, 154, 1428-1438.	4.8	174
56	A Novel Fatty Acyl-CoA Synthetase Is Required for Pollen Development and Sporopollenin Biosynthesis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2009, 21, 507-525.	6.6	257
57	Genome-wide analysis of a land plant-specific acyl:coenzymeA synthetase (ACS) gene family in <i>Arabidopsis</i> , poplar, rice and <i>Physcomitrella</i> . <i>New Phytologist</i> , 2008, 179, 987-1003.	7.3	72
58	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
59	Genome structure and emerging evidence of an incipient sex chromosome in <i>Populus</i> . <i>Genome Research</i> , 2008, 18, 422-430.	5.5	177
60	Microarray gene expression profiling of developmental transitions in Sitka spruce (<i>Picea sitchensis</i>) apical shoots. <i>Journal of Experimental Botany</i> , 2007, 58, 593-614.	4.8	44
61	<i>Populus trichocarpa</i> MONOPTEROS/AUXIN RESPONSE FACTOR5 (ARF5) genes: comparative structure, sub-functionalization, and <i>Populus</i> vs <i>Arabidopsis</i> microsynteny This article 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, 1058-1070.	1.1	18
62	<i>Populus</i> : A Model System for Plant Biology. <i>Annual Review of Plant Biology</i> , 2007, 58, 435-458.	18.7	549
63	Genome-wide analyses of phenylpropanoid-related genes in <i>Populus trichocarpa</i> , <i>Arabidopsis thaliana</i> , and <i>Oryza sativa</i> : the <i>Populus</i> lignin toolbox and conservation and diversification of angiosperm gene families This article 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, 1182-1201.	1.1	132
64	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
65	Genomics of hybrid poplar (<i>Populus trichocarpa</i> × <i>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
66	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
67	Conifer defence against insects: microarray gene expression profiling of Sitka spruce (<i>Picea</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 transcriptome. <i>Plant, Cell and Environment</i> , 2006, 29, 1545-1570.	5.7	221
68	Editorial: Plant biotechnology: Thoughts on the current scene. <i>Biotechnology Journal</i> , 2006, 1, 1041-1042.	3.5	0
69	Multiple cis-regulatory elements regulate distinct and complex patterns of developmental and wound-induced expression of <i>Arabidopsis thaliana</i> 4CL gene family members. <i>Planta</i> , 2006, 224, 1226-1238.	3.2	79
70	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
71	<i>Arabidopsis thaliana</i> Full Genome Longmer Microarrays: A Powerful Gene Discovery Tool for Agriculture and Forestry. <i>Transgenic Research</i> , 2005, 14, 551-561.	2.4	19
72	Proteome analysis of early somatic embryogenesis in <i>Picea glauca</i> . <i>Proteomics</i> , 2005, 5, 461-473.	2.2	166

#	ARTICLE	IF	CITATIONS
73	Isolation of high-quality RNA from gymnosperm and angiosperm trees. <i>BioTechniques</i> , 2004, 36, 821-824.	1.8	148
74	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
75	Reconstitution of the Entry Point of Plant Phenylpropanoid Metabolism in Yeast (<i>Saccharomyces</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 112	3.4	112
76	Cloning, Functional Expression, and Subcellular Localization of Multiple NADPH-Cytochrome P450 Reductases from Hybrid Poplar. <i>Plant Physiology</i> , 2002, 130, 1837-1851.	4.8	102
77	Identification of 4-coumarate:coenzyme A ligase (4CL) substrate recognition domains. <i>Plant Journal</i> , 2001, 27, 455-465.	5.7	61
78	Functional Characterization and Subcellular Localization of Poplar (<i>Populus trichocarpa</i> Å— <i>Populus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.8	123
79	A novel parsley 4CL1 cis-element is required for developmentally regulated expression and protein-DNA complex formation. <i>Plant Journal</i> , 1999, 18, 77-88.	5.7	21
80	Three 4-coumarate:coenzyme A ligases in <i>Arabidopsis thaliana</i> represent two evolutionarily divergent classes in angiosperms. <i>Plant Journal</i> , 1999, 19, 9-20.	5.7	402
81	Developmentally regulated patterns of expression directed by poplar PAL promoters in transgenic tobacco and poplar. <i>Plant Molecular Biology</i> , 1999, 39, 657-669.	3.9	51
82	4-Coumarate:Coenzyme A Ligase in Hybrid Poplar1. <i>Plant Physiology</i> , 1998, 116, 743-754.	4.8	116
83	Phenylpropanoid metabolism and lignin biosynthesis: from weeds to trees. <i>Trends in Plant Science</i> , 1996, 1, 171-178.	8.8	299
84	The <i>Arabidopsis thaliana</i> 4-coumarate:CoA ligase (4CL) gene: stress and developmentally regulated expression and nucleotide sequence of its cDNA. <i>Plant Molecular Biology</i> , 1995, 28, 871-884.	3.9	135
85	Combinatorial interactions between positive and negative cis-acting elements control spatial patterns of 4CL-1 expression in transgenic tobacco. <i>Plant Journal</i> , 1993, 4, 235-253.	5.7	91
86	Rapid Activation of Phenylpropanoid Metabolism in Elicitor-Treated Hybrid Poplar (<i>Populus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22 Physiology, 1992, 98, 728-737.	4.8	39
87	Molecular signals in the interactions between plants and microbes. <i>Cell</i> , 1992, 71, 191-199.	28.9	54
88	A Parsley 4CL-1 Promoter Fragment Specifies Complex Expression Patterns in Transgenic Tobacco. <i>Plant Cell</i> , 1991, 3, 435.	6.6	15
89	Primary structures and catalytic properties of isoenzymes encoded by the two 4-coumarate: CoA ligase genes in parsley. <i>FEBS Journal</i> , 1988, 176, 661-667.	0.2	155
90	Flagella-specific bacteriophages of <i>Agrobacterium tumefaciens</i> : demonstration of virulence of nonmotile mutants. <i>Canadian Journal of Microbiology</i> , 1984, 30, 676-681.	1.7	31

#	ARTICLE	IF	CITATIONS
91	Factors Affecting Crown Gall Tumorigenesis in Tuber Slices of Jerusalem Artichoke (Helianthus) Tj ETQq1 1 0.784314.rgBT /Oyerlock 10 4.8 ⁸ 17		
92	Early detection of octopine in crown-gall tumors of Jerusalem artichoke. Plant Science Letters, 1979, 15, 89-99.	1.8	4