

# Robert D Guy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3628055/publications.pdf>

Version: 2024-02-01

79  
papers

4,380  
citations

116194

36  
h-index

129628

63  
g-index

81  
all docs

81  
docs citations

81  
times ranked

4994  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genotypic variation in C and N isotope discrimination suggests local adaptation of heart-leaved willow. <i>Tree Physiology</i> , 2022, 42, 32-43.	1.4	10
2	Enlightening the Pathway of Phytoremediation: Ecophysiology and X-ray Fluorescence Visualization of Two Chilean Hardwoods Exposed to Excess Copper. <i>Toxics</i> , 2022, 10, 237.	1.6	2
3	Effects of Fruit Shading on Gene and Protein Expression During Starch and Oil Accumulation in Developing <i>Styrax tonkinensis</i> Kernels. <i>Frontiers in Plant Science</i> , 2022, 13, .	1.7	2
4	Growth response, uptake and mobilization of metals in native plant species on tailings at a Chilean copper mine. <i>International Journal of Phytoremediation</i> , 2021, 23, 539-547.	1.7	10
5	Proteomic analysis of metabolic mechanisms associated with fatty acid biosynthesis during <i>Styrax tonkinensis</i> kernel development. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 6053-6063.	1.7	5
6	Seasonal progression of photoprotection responses in different aged savin juniper plants under shade and sun. <i>Trees - Structure and Function</i> , 2021, 35, 1601-1612.	0.9	2
7	Leaf morphology, photosynthesis and pigments change with age and light regime in savin juniper. <i>Plant Biology</i> , 2021, 23, 1097-1108.	1.8	9
8	Emerging roles for carbonic anhydrase in mesophyll conductance and photosynthesis. <i>Plant Journal</i> , 2020, 101, 831-844.	2.8	65
9	Physiological Response of <i>Populus balsamifera</i> and <i>Salix eriocephala</i> to Salinity and Hydraulic Fracturing Wastewater: Potential for Phytoremediation Applications. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7641.	1.2	5
10	Isotopic composition and concentration of total nitrogen and nitrate in xylem sap under near steady-state hydroponics. <i>Plant, Cell and Environment</i> , 2020, 43, 2112-2123.	2.8	11
11	A comparative study of seed reserve accumulation in five <i>Styrax</i> species with potential for biofuel production. <i>Trees - Structure and Function</i> , 2020, 34, 891-902.	0.9	4
12	Transcriptome analysis of metabolic pathways associated with oil accumulation in developing seed kernels of <i>Styrax tonkinensis</i> , a woody biodiesel species. <i>BMC Plant Biology</i> , 2020, 20, 121.	1.6	21
13	Differences in growth and physiological and metabolic responses among Canadian native and hybrid willows ( <i>Salix</i> spp.) under salinity stress. <i>Tree Physiology</i> , 2020, 40, 652-666.	1.4	14
14	A role for <i>SPEECHLESS</i> in the integration of leaf stomatal patterning with the growth vs disease trade-off in poplar. <i>New Phytologist</i> , 2019, 223, 1888-1903.	3.5	25
15	Exogenous 24-Epibrassinolide Alleviates Effects of Salt Stress on Chloroplasts and Photosynthesis in <i>Robinia pseudoacacia</i> L. Seedlings. <i>Journal of Plant Growth Regulation</i> , 2019, 38, 669-682.	2.8	33
16	Concomitant effects of mercuric chloride on mesophyll conductance and carbonic anhydrase activity in <i>Populus trichocarpa</i> Torr. & Gray. <i>Trees - Structure and Function</i> , 2018, 32, 301-309.	0.9	12
17	Phosphorus storage and resorption in riparian tree species: Environmental applications of poplar and willow. <i>Environmental and Experimental Botany</i> , 2018, 149, 1-8.	2.0	20
18	Hybrid vigour " poplars play it cool. <i>Tree Physiology</i> , 2018, 38, 785-788.	1.4	20

#	ARTICLE	IF	CITATIONS
19	Ecological genomics of variation in bud break phenology and mechanisms of response to climate warming in <i>Populus trichocarpa</i> . <i>New Phytologist</i> , 2018, 220, 300-316.	3.5	40
20	Sexual homomorphism in dioecious trees: extensive tests fail to detect sexual dimorphism in <i>Populus</i> . <i>Scientific Reports</i> , 2017, 7, 1831.	1.6	54
21	Blue light differentially represses mesophyll conductance in high vs low latitude genotypes of <i>Populus trichocarpa</i> Torr. & Gray. <i>Journal of Plant Physiology</i> , 2017, 213, 122-128.	1.6	14
22	Substantial role for carbonic anhydrase in latitudinal variation in mesophyll conductance of <i>Populus trichocarpa</i> Torr. & Gray. <i>Plant, Cell and Environment</i> , 2017, 40, 138-149.	2.8	52
23	Variation in fluxes estimated from nitrogen isotope discrimination corresponds with independent measures of nitrogen flux in <i>Populus balsamifera</i> L.. <i>Plant, Cell and Environment</i> , 2016, 39, 310-319.	2.8	15
24	Impacts of bud set and lammis phenology on root:shoot biomass partitioning and carbon gain physiology in poplar. <i>Trees - Structure and Function</i> , 2016, 30, 2131-2141.	0.9	5
25	Genotypic variation in nitrogen isotope discrimination in <i>Populus balsamifera</i> L. clones grown with either nitrate or ammonium. <i>Journal of Plant Physiology</i> , 2016, 201, 54-61.	1.6	7
26	Leaf mass per area predicts palisade structural properties linked to mesophyll conductance in balsam poplar ( <i>Populus balsamifera</i> L.). <i>Botany</i> , 2016, 94, 225-239.	0.5	39
27	Recent Y chromosome divergence despite ancient origin of dioecy in poplars ( <i>Populus</i> ). <i>Molecular Ecology</i> , 2015, 24, 3243-3256.	2.0	121
28	Evolutionary Quantitative Genomics of <i>Populus trichocarpa</i> . <i>PLoS ONE</i> , 2015, 10, e0142864.	1.1	31
29	Comparative physiology of allopatric <i>Populus</i> species: geographic clines in photosynthesis, height growth, and carbon isotope discrimination in common gardens. <i>Frontiers in Plant Science</i> , 2015, 6, 528.	1.7	31
30	Interspecific variation in leaf-root differences in $\delta^{15}N$ among three tree species grown with either nitrate or ammonium. <i>Trees - Structure and Function</i> , 2015, 29, 1069-1078.	0.9	25
31	Investigating the drought-stress response of hybrid poplar genotypes by metabolite profiling. <i>Tree Physiology</i> , 2014, 34, 1203-1219.	1.4	84
32	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.	1.1	88
33	Comparative resource-use efficiencies and growth of <i>Populus trichocarpa</i> and <i>Populus balsamifera</i> under glasshouse conditions. <i>Botany</i> , 2014, 92, 443-451.	0.5	10
34	Association genetics, geography and ecophysiology link stomatal patterning in <i>Populus trichocarpa</i> with carbon gain and disease resistance trade-offs. <i>Molecular Ecology</i> , 2014, 23, 5771-5790.	2.0	103
35	The early bud gets to warm. <i>New Phytologist</i> , 2014, 202, 7-9.	3.5	16
36	Extensive Functional Pleiotropy of REVOLUTA Substantiated through Forward Genetics. <i>Plant Physiology</i> , 2014, 164, 548-554.	2.3	17

#	ARTICLE	IF	CITATIONS
37	Geographical and environmental gradients shape phenotypic trait variation and genetic structure in <i>Populus trichocarpa</i> . <i>New Phytologist</i> , 2014, 201, 1263-1276.	3.5	185
38	Nitrogen isotope discrimination as an integrated measure of nitrogen fluxes, assimilation and allocation in plants. <i>Physiologia Plantarum</i> , 2014, 151, 293-304.	2.6	60
39	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.	3.5	171
40	Timing of photoperiodic competency causes phenological mismatch in balsam poplar ( <i>Populus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td	2.8	68
41	Quantifying remobilization of pre-existing nitrogen from cuttings to new growth of woody plants using <sup>15</sup> N at natural abundance. <i>Plant Methods</i> , 2013, 9, 27.	1.9	14
42	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.	3.5	158
43	A 34K SNP genotyping array for <i>Populus trichocarpa</i> : Design, application to the study of natural populations and transferability to other <i>Populus</i> species. <i>Molecular Ecology Resources</i> , 2013, 13, 306-323.	2.2	92
44	The adaptive potential of <i>Populus balsamifera</i> L. to phenology requirements in a warmer global climate. <i>Molecular Ecology</i> , 2013, 22, 1214-1230.	2.0	91
45	Seasonality and phenology alter functional leaf traits. <i>Oecologia</i> , 2013, 172, 653-665.	0.9	67
46	Whole-plant and organ-level nitrogen isotope discrimination indicates modification of partitioning of assimilation, fluxes and allocation of nitrogen in knockout lines of <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , 2013, 149, 249-259.	2.6	25
47	Association Analysis Identifies <i>Melampsora</i> -columbiana Poplar Leaf Rust Resistance SNPs. <i>PLoS ONE</i> , 2013, 8, e78423.	1.1	31
48	Comparative Nucleotide Diversity Across North American and European <i>Populus</i> Species. <i>Journal of Molecular Evolution</i> , 2012, 74, 257-272.	0.8	25
49	Climate-driven local adaptation of ecophysiology and phenology in balsam poplar, <i>Populus balsamifera</i> L. (Salicaceae). <i>American Journal of Botany</i> , 2011, 98, 99-108.	0.8	103
50	Carbon isotope discrimination in western hemlock and its relationship to mineral nutrition and growth. <i>Tree Physiology</i> , 2010, 30, 728-740.	1.4	15
51	Simulating gross primary production across a chronosequence of coastal Douglas-fir forest stands with a production efficiency model. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 238-253.	1.9	14
52	Access to mycorrhizal networks and roots of trees: importance for seedling survival and resource transfer. <i>Ecology</i> , 2009, 90, 2808-2822.	1.5	124
53	Enhanced assimilation rate and water use efficiency with latitude through increased photosynthetic capacity and internal conductance in balsam poplar ( <i>Populus balsamifera</i> L.). <i>Plant, Cell and Environment</i> , 2009, 32, 1821-1832.	2.8	140
54	Geographic variation in ecophysiological traits of black cottonwood ( <i>Populus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (trichocarpa) Research in Canada.. <i>Canadian Journal of Botany</i> , 2007, 85, 1202-1213.	1.2	62

#	ARTICLE	IF	CITATIONS
55	Tree proximity, soil pathways and common mycorrhizal networks: their influence on the utilization of redistributed water by understory seedlings. <i>Oecologia</i> , 2007, 154, 455-466.	0.9	44
56	Partitioning of respiratory electrons in the dark in leaves of transgenic tobacco with modified levels of alternative oxidase. <i>Physiologia Plantarum</i> , 2005, 125, 171-180.	2.6	58
57	Nitrogen isotope discrimination in white spruce fed with low concentrations of ammonium and nitrate. <i>Trees - Structure and Function</i> , 2005, 19, 89-98.	0.9	53
58	Population differences in stable carbon isotope ratio of <i>Pinus contorta</i> Dougl. ex Loud.: relationship to environment, climate of origin, and growth potential. <i>Canadian Journal of Botany</i> , 2001, 79, 274-283.	1.2	25
59	Population differences in stable carbon isotope ratio of <i>Pinus contorta</i> Dougl. ex Loud.: relationship to environment, climate of origin, and growth potential. <i>Canadian Journal of Botany</i> , 2001, 79, 274-283.	1.2	49
60	Geographic pattern of genetic variation in photosynthetic capacity and growth in two hardwood species from British Columbia. <i>Oecologia</i> , 2000, 123, 168-174.	0.9	36
61	The effects of nitrogen stress on the stable carbon isotope composition, productivity and water use efficiency of white spruce ( <i>Picea glauca</i> (Moench) Voss) seedlings. <i>Plant, Cell and Environment</i> , 1999, 22, 281-289.	2.8	189
62	A comparative study of fluxes and compartmentation of nitrate and ammonium in early-successional tree species. <i>Plant, Cell and Environment</i> , 1999, 22, 821-830.	2.8	67
63	Induction of nitrate uptake and nitrate reductase activity in trembling aspen and lodgepole pine. <i>Plant, Cell and Environment</i> , 1998, 21, 1039-1046.	2.8	80
64	Influence of the carbon concentrating mechanism on carbon stable isotope discrimination by the marine diatom <i>Thalassiosira pseudonana</i> . <i>Canadian Journal of Botany</i> , 1998, 76, 1098-1103.	1.2	7
65	Whole-plant nitrogen- and water-relations traits, and their associated trade-offs, in adjacent muskeg and upland boreal spruce species. <i>Oecologia</i> , 1997, 110, 160-168.	0.9	109
66	Effects of N addition rates on the productivity of <i>Picea Sitchensis</i> , <i>Thuja plicata</i> , and <i>Tsuga heterophylla</i> seedlings. <i>Trees - Structure and Function</i> , 1996, 10, 198-205.	0.9	46
67	Stable carbon isotopes as indicators of increased water use efficiency and productivity in white spruce ( <i>Picea glauca</i> (Moench) Voss) seedlings. <i>Plant, Cell and Environment</i> , 1996, 19, 887-894.	2.8	126
68	Effects of N addition rates on the productivity of <i>Picea Sitchensis</i> , <i>Thuja plicata</i> , and <i>Tsuga heterophylla</i> seedlings. <i>Trees - Structure and Function</i> , 1996, 10, 198-205.	0.9	9
69	Photosynthetic Fractionation of the Stable Isotopes of Oxygen and Carbon. <i>Plant Physiology</i> , 1993, 101, 37-47.	2.3	401
70	Cytochrome and Alternative Pathway Respiration in Green Algae. <i>Plant Physiology</i> , 1990, 93, 356-360.	2.3	39
71	Cytochrome and Alternative Pathway Respiration during Transient Ammonium Assimilation by N-Limited <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 1990, 94, 1131-1136.	2.3	16
72	Significance of Phosphoenolpyruvate Carboxylase during Ammonium Assimilation. <i>Plant Physiology</i> , 1989, 89, 1150-1157.	2.3	74

#	ARTICLE	IF	CITATIONS
73	Differential fractionation of oxygen isotopes by cyanide-resistant and cyanide-sensitive respiration in plants. <i>Planta</i> , 1989, 177, 483-491.	1.6	198
74	Stable Carbon Isotope Ratio as an Index of Water-Use Efficiency in C3 Halophytes—Possible Relationship to Strategies for Osmotic Adjustment. <i>Ecological Studies</i> , 1989, , 55-75.	0.4	26
75	Photosynthesis and the influence of CO <sub>2</sub> -enrichment on delta <sup>13</sup> C values in a C3 halophyte.. <i>Plant, Cell and Environment</i> , 1986, 9, 65-72.	2.8	36
76	Factors affecting <sup>13</sup> C/ <sup>12</sup> C ratios of inland halophytes. I. Controlled studies on growth and isotopic composition of <i>Puccinellia nuttalliana</i> . <i>Canadian Journal of Botany</i> , 1986, 64, 2693-2699.	1.2	46
77	Glycinebetaine content of halophytes: Improved analysis by liquid chromatography and interpretations of results. <i>Physiologia Plantarum</i> , 1984, 61, 195-202.	2.6	27
78	Stable carbon isotope ratios of flooded and nonflooded sunflowers ( <i>Helianthus annuus</i> ). <i>Canadian Journal of Botany</i> , 1984, 62, 1770-1774.	1.2	25
79	Shifts in carbon isotope ratios of two C3 halophytes under natural and artificial conditions. <i>Oecologia</i> , 1980, 44, 241-247.	0.9	126