Harry X Wu

List of Publications by Year
in descending order

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74 papers	2,002 citations	257450 24 h-index	302126 39 g-index
82 all docs	82 docs citations	82 times ranked	1312 citing authors

#	Article	IF	Citations
1	The Chinese pine genome and methylome unveil key features of conifer evolution. Cell, 2022, 185, 204-217.e14.	28.9	151
2	Accuracy of genomic selection for growth and wood quality traits in two control-pollinated progeny trials using exome capture as the genotyping platform in Norway spruce. BMC Genomics, 2018, 19, 946.	2.8	75
3	Inheritance of density, microfibril angle, and modulus of elasticity in juvenile wood ofPinus radiataat two locations in Australia. Canadian Journal of Forest Research, 2007, 37, 2164-2174.	1.7	72
4	Developing breeding objectives for radiata pine structural wood production. I. Bioeconomic model and economic weights. Canadian Journal of Forest Research, 2006, 36, 2920-2931.	1.7	65
5	Estimation of number and size of QTL effects in forest tree traits. Tree Genetics and Genomes, 2016, 12, 1.	1.6	65
6	Inheritance of growth and solid wood quality traits in a large Norway spruce population tested at two locations in southern Sweden. Tree Genetics and Genomes, 2014, 10, 1291-1303.	1.6	63
7	Estimating solid wood properties using Pilodyn and acoustic velocity on standing trees of Norway spruce. Annals of Forest Science, 2015, 72, 499-508.	2.0	63
8	Prediction of wood stiffness, strength, and shrinkage in juvenile wood of radiata pine. Wood Science and Technology, 2009, 43, 237-257.	3.2	62
9	Genomic relationships reveal significant dominance effects for growth in hybrid Eucalyptus. Plant Science, 2018, 267, 84-93.	3.6	60
10	Achievements in forest tree improvement in Australia and New Zealand 8. Successful introduction and breeding of radiata pine in Australia. Australian Forestry, 2007, 70, 215-225.	0.9	57
11	Efficiency of early selection for rotation-aged growth and wood density traits in Pinus radiata. Canadian Journal of Forest Research, 2005, 35, 2019-2029.	1.7	55
12	Efficiency of early selection for rotation-aged wood quality traits in radiata pine. Annals of Forest Science, 2007, 64, 1-9.	2.0	55
13	High negative genetic correlations between growth traits and wood properties suggest incorporating multiple traits selection including economic weights for the future Scots pine breeding programs. Annals of Forest Science, 2014, 71, 463-472.	2.0	51
14	Genomeâ€wide association study identified novel candidate loci affecting wood formation in Norway spruce. Plant Journal, 2019, 100, 83-100.	5.7	49
15	Comparisons of genetic parameters and clonal value predictions from clonal trials and seedling base population trials of radiata pine. Tree Genetics and Genomes, 2009, 5, 269-278.	1.6	46
16	Genetic control of the time of transition from juvenile to mature wood inPinus radiataD. Don. Annals of Forest Science, 2006, 63, 871-878.	2.0	45
17	Benefits and risks of using clones in forestry â€“ a review. Scandinavian Journal of Forest Research, 2019, 34, 352-359.	1.4	45
18	Non-destructive wood density assessment of Scots pine (Pinus sylvestris L.) using Resistograph and Pilodyn. PLoS ONE, 2018, 13, e0204518.	2.5	40

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19	Genetic stability of wood density and diameter in Pinus radiata D. Don plantation estate across Australia. Tree Genetics and Genomes, 2010, 6, 113-125.	1.6	39
20	Patterns of additive genotype-by-environment interaction in tree height of Norway spruce in southern and central Sweden. Tree Genetics and Genomes, 2017, 13, 1.	1.6	39
21	Geographic pattern of local optimality in natural populations of lodgepole pine. Forest Ecology and Management, 2004, 194, 177-198.	3.2	38
22	MADS-box transcription factors MADS11 and DAL1 interact to mediate the vegetative-to-reproductive transition in pine. Plant Physiology, 2021, 187, 247-262.	4.8	35
23	Genetic correlations among juvenile wood quality and growth traits and implications for selection strategy in Pinus radiata D. Don. Annals of Forest Science, 2009, 66, 606-606.	2.0	34
24	Evaluation of the efficiency of genomic versus pedigree predictions for growth and wood quality traits in Scots pine. BMC Genomics, 2020, 21, 796.	2.8	33
25	Leveraging breeding programs and genomic data in Norway spruce (Picea abies L. Karst) for GWAS analysis. Genome Biology, 2021, 22, 179.	8.8	29
26	Genetic analysis of fiber dimensions and their correlation with stem diameter and solid-wood properties in Norway spruce. Tree Genetics and Genomes, 2016, 12, 1.	1.6	28
27	Development of a highly efficient 50K single nucleotide polymorphism genotyping array for the large and complex genome of Norway spruce (Picea abies L. Karst) by whole genome resequencing and its transferability to other spruce species. Molecular Ecology Resources, 2021, 21, 880-896.	4.8	26
28	Genetic parameters and genotypeâ€“environment interactions of Chinese fir (Cunninghamia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	1.7	25
29	Age trend of heritability, genetic correlation, and efficiency of early selection for wood quality traits in Scots pine. Canadian Journal of Forest Research, 2015, 45, 817-825.	1.7	25
30	Genetic analysis of lodgepole pine (Pinus contorta) solid-wood quality traits. Canadian Journal of Forest Research, 2017, 47, 1303-1313.	1.7	25
31	Performance of Seven Tree Breeding Strategies Under Conditions of Inbreeding Depression. G3: Genes, Genomes, Genetics, 2016, 6, 529-540.	1.8	24
32	General and specific combining ability from partial diallels of radiata pine: implications for utility of SCA in breeding and deployment populations. Theoretical and Applied Genetics, 2004, 108, 1503-1512.	3.6	23
33	Predicting the chemical composition of juvenile and mature woods in Scots pine (Pinus sylvestris L.) using FTIR spectroscopy. Wood Science and Technology, 2020, 54, 289-311.	3.2	22
34	Developing breeding objectives for radiata pine structural wood production. II. Sensitivity analyses. Canadian Journal of Forest Research, 2006, 36, 2932-2942.	1.7	21
35	Pattern of genotype by environment interaction for radiata pine in southern Australia. Annals of Forest Science, 2015, 72, 391-401.	2.0	20
36	Efficiency of using spatial analysis for Norway spruce progeny tests in Sweden. Annals of Forest Science, 2018, 75, 1.	2.0	20

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37	Association genetics identifies a specifically regulated Norway spruce laccase gene, <scp>PaLAC5</scp>, linked to Heterobasidion parviporum resistance. Plant, Cell and Environment, 2020, 43, 1779-1791.	5.7	19
38	Increased Prediction Ability in Norway Spruce Trials Using a Marker X Environment Interaction and Non-Additive Genomic Selection Model. Journal of Heredity, 2019, 110, 830-843.	2.4	18
39	Effect of selection method on genetic correlation and gain in a two-trait selection scheme. Australian Forestry, 2011, 74, 36-42.	0.9	17
40	Using Norway spruce clones in Swedish forestry: implications of clones for management. Scandinavian Journal of Forest Research, 2019, 34, 390-404.	1.4	17
41	Single versus subdivided population strategies in breeding against an adverse genetic correlation. Tree Genetics and Genomes, 2014, 10, 605-617.	1.6	16
42	Non-Destructive Assessment of Wood Stiffness in Scots Pine (Pinus sylvestris L.) and its Use in Forest Tree Improvement. Forests, 2019, 10, 491.	2.1	16
43	Estimation of genetic parameters, provenance performances, and genotype by environment interactions for growth and stiffness in lodgepole pine (Pinus contorta). Scandinavian Journal of Forest Research, 2019, 34, 1-11.	1.4	15
44	Advantage of clonal deployment in Norway spruce (Picea abies (L.) H. Karst). Annals of Forest Science, 2020, 77, 1.	2.0	15
45	Effect of number of annual rings and tree ages on genomic predictive ability for solid wood properties of Norway spruce. BMC Genomics, 2020, 21, 323.	2.8	14
46	A transcriptome-based association study of Âgrowth, wood quality, and oleoresin traits in a slash pine Âbreeding population. PLoS Genetics, 2022, 18, e1010017.	3.5	13
47	Genotype-by-environment interactions and the dynamic relationship between tree vitality and height in northern Pinus sylvestris. Tree Genetics and Genomes, 2019, 15, 1.	1.6	12
48	Genotypic variation in Norway spruce correlates to fungal communities in vegetative buds. Molecular Ecology, 2020, 29, 199-213.	3.9	12
49	Stem damage of lodgepole pine clonal cuttings in relation to wood and fiber traits, acoustic velocity, and spiral grain. Scandinavian Journal of Forest Research, 2014, 29, 764-776.	1.4	10
50	Early selection for resistance to Heterobasidion parviporum in Norway spruce is not likely to adversely affect growth and wood quality traits in late-age performance. European Journal of Forest Research, 2018, 137, 517-525.	2.5	10
51	Spatial and competition models increase the progeny testing efficiency of Japanese larch. Canadian Journal of Forest Research, 2020, 50, 1373-1382.	1.7	9
52	Genetic control of tracheid properties in Norway spruce wood. Scientific Reports, 2020, 10, 18089.	3.3	9
53	Genomic Predictions With Nonadditive Effects Improved Estimates of Additive Effects and Predictions of Total Genetic Values in Pinus sylvestris. Frontiers in Plant Science, 2021, 12, 666820.	3.6	9
54	Killing two enemies with one stone? Genomics of resistance to two sympatric pathogens in Norway spruce. Molecular Ecology, 2021, 30, 4433-4447.	3.9	9

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55	The Transcriptional Landscape and Hub Genes Associated with Physiological Responses to Drought Stress in Pinus tabuliformis. International Journal of Molecular Sciences, 2021, 22, 9604.	4.1	9
56	Genome-wide TCP transcription factors analysis provides insight into their new functions in seasonal and diurnal growth rhythm in Pinus tabuliformis. BMC Plant Biology, 2022, 22, 167.	3.6	9
57	Inheritance of height growth and autumn cold hardiness based on two generations of full-sib and half-sib families ofPinus sylvestris. Scandinavian Journal of Forest Research, 2012, 27, 405-413.	1.4	8
58	Measuring stiffness using acoustic tool for Scots pine breeding selection. Scandinavian Journal of Forest Research, 0, , 1-10.	1.4	8
59	Genetic improvement for essential oil yield and quality in Melaleuca cajuputi. Industrial Crops and Products, 2019, 137, 681-686.	5.2	8
60	Genetic control of transition from juvenile to mature wood with respect to microfibril angle in Norway spruce (Picea abies) and lodgepole pine (Pinus contorta). Canadian Journal of Forest Research, 2018, 48, 1358-1365.	1.7	7
61	Genetic analysis of fiber-dimension traits and combined selection for simultaneous improvement of growth and stiffness in lodgepole pine (Pinus contorta). Canadian Journal of Forest Research, 2019, 49, 500-509.	1.7	7
62	Analysis of phenotypic- and Estimated Breeding Values (EBV) to dissect the genetic architecture of complex traits in a Scots pine three-generation pedigree design. Journal of Theoretical Biology, 2019, 462, 283-292.	1.7	7
63	Balancing Breeding for Growth and Fecundity in Radiata Pine (Pinus radiata D. Don) Breeding Programme. Evolutionary Applications, 2021, 14, 834-846.	3.1	7
64	Method for accurate fiber length determination from increment cores for large-scale population analyses in Norway spruce. Holzforschung, 2016, 70, 829-838.	1.9	6
65	Using Norway spruce clones in Swedish forestry: introduction. Scandinavian Journal of Forest Research, 2019, 34, 333-335.	1.4	6
66	Genetic analysis of wood quality traits in Norway spruce open-pollinated progenies and their parent plus trees at clonal archives and the evaluation of phenotypic selection of plus trees. Canadian Journal of Forest Research, 2019, 49, 810-818.	1.7	6
67	Effect of additive, dominant and epistatic variances on breeding and deployment strategy in Norway spruce. Forestry, 2022, 95, 416-427.	2.3	6
68	MicroRNA and cDNA-Microarray as Potential Targets against Abiotic Stress Response in Plants: Advances and Prospects. Agronomy, 2022, 12, 11.	3.0	6
69	Characterizing compression wood formed in radiata pine branches. IAWA Journal, 2014, 35, 385-394.	2.7	4
70	Genetic Improvement of Sawn-Board Stiffness and Strength in Scots Pine (Pinus sylvestris L.). Sensors, 2020, 20, 1129.	3.8	4
71	Genetic improvement of the chemical composition of Scots pine (Pinus sylvestris L.) juvenile wood for bioenergy production. GCB Bioenergy, 2020, 12, 848-863.	5.6	3
72	Determination of conifer age biomarker DAL1 interactome using Y2H-seq. Forestry Research, 2021, 1, 1-12.	1.1	3

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73	Inheritance of growth and survival in two 9-year-old, open-pollinated progenies of an advanced breeding population of Chinese firs in southeastern China. Journal of Forestry Research, 2016, 27, 1067-1075.	3.6	2
74	Genetic improvement of sawn-board shape stability in Scots pine (Pinus sylvestris L.). Industrial Crops and Products, 2020, 157, 112939.	5.2	2