

# Heidi S Dungey

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

1,692  
citations

361045

20  
h-index

288905

40  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1877  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing very high resolution UAV imagery for monitoring forest health during a simulated disease outbreak. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 131, 1-14.	4.9	249
2	PLANT GENETICS AFFECTS ARTHROPOD COMMUNITY RICHNESS AND COMPOSITION: EVIDENCE FROM A SYNTHETIC EUCALYPT HYBRID POPULATION. Evolution; International Journal of Organic Evolution, 2000, 54, 1938-1946.	1.1	178
3	PLANT HYBRID ZONES AFFECT BIODIVERSITY: TOOLS FOR A GENETIC-BASED UNDERSTANDING OF COMMUNITY STRUCTURE. Ecology, 1999, 80, 416-428.	1.5	157
4	Interspecific hybridization of Eucalyptus: key issues for breeders and geneticists. New Forests, 2004, 27, 115-138.	0.7	151
5	Genotype by environment interactions in forest tree breeding: review of methodology and perspectives on research and application. Tree Genetics and Genomes, 2017, 13, 1.	0.6	132
6	Genetics of wood stiffness and its component traits in Pinus radiata. Canadian Journal of Forest Research, 2006, 36, 1165-1178.	0.8	65
7	Phenotyping Whole Forests Will Help to Track Genetic Performance. Trends in Plant Science, 2018, 23, 854-864.	4.3	50
8	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.	0.6	46
9	Pine hybrids "a review of their use performance and genetics. Forest Ecology and Management, 2001, 148, 243-258.	1.4	45
10	Efficiency of genomic prediction across two Eucalyptus nitens seed orchards with different selection histories. Heredity, 2019, 122, 370-379.	1.2	42
11	Ontogenetic variation in levels of gibberellin A1 in Pisum. Planta, 1992, 186, 166-71.	1.6	39
12	Quantification of realised genetic gain in radiata pine and its incorporation into growth and yield modelling systems. Canadian Journal of Forest Research, 2015, 45, 1676-1687.	0.8	36
13	Parentage Reconstruction in Eucalyptus nitens Using SNPs and Microsatellite Markers: A Comparative Analysis of Marker Data Power and Robustness. PLoS ONE, 2015, 10, e0130601.	1.1	36
14	Exploration of genetic architecture through sib-ship reconstruction in advanced breeding population of Eucalyptus nitens. PLoS ONE, 2017, 12, e0185137.	1.1	34
15	A high-density exome capture genotype-by-sequencing panel for forestry breeding in Pinus radiata. PLoS ONE, 2019, 14, e0222640.	1.1	30
16	Effect of Hidden Relatedness on Single-Step Genetic Evaluation in an Advanced Open-Pollinated Breeding Program. Journal of Heredity, 2018, 109, 802-810.	1.0	28
17	Expected benefit of genomic selection over forward selection in conifer breeding and deployment. PLoS ONE, 2018, 13, e0208232.	1.1	27
18	Genomic selection for non-key traits in radiata pine when the documented pedigree is corrected using DNA marker information. BMC Genomics, 2019, 20, 1026.	1.2	27

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19	Predicting the spatial distribution of <i>Cupressus lusitanica</i> productivity in New Zealand. <i>Forest Ecology and Management</i> , 2009, 258, 217-223.	1.4	23
20	Marker Selection in Multivariate Genomic Prediction Improves Accuracy of Low Heritability Traits. <i>Frontiers in Genetics</i> , 2020, 11, 499094.	1.1	23
21	Forest-Scale Phenotyping: Productivity Characterisation Through Machine Learning. <i>Frontiers in Plant Science</i> , 2020, 11, 99.	1.7	21
22	Genetic parameters and clone by environment interactions for growth and foliar nutrient concentrations in radiata pine on 14 widely diverse New Zealand sites. <i>Tree Genetics and Genomes</i> , 2015, 11, 1.	0.6	17
23	Genotype $\times$ site $\times$ silviculture interactions in radiata pine: knowledge, working hypotheses and pointers for research. <i>New Zealand Journal of Forestry Science</i> , 2017, 47, .	0.8	16
24	Determining the main and interactive effect of age and clone on wood density, microfibril angle, and modulus of elasticity for <i>Pinus radiata</i> . <i>Canadian Journal of Forest Research</i> , 2010, 40, 1550-1557.	0.8	15
25	Effect of trait's expression level on single-step genomic evaluation of resistance to <i>Dothistroma</i> needle blight. <i>BMC Plant Biology</i> , 2020, 20, 205.	1.6	14
26	Modelling the effects of genetic improvement on radiata pine wood density. <i>New Zealand Journal of Forestry Science</i> , 2016, 46, .	0.8	13
27	First evidence of genetic-based tolerance to red needle cast caused by <i>Phytophthora pluvialis</i> in radiata pine. <i>New Zealand Journal of Forestry Science</i> , 2014, 44, .	0.8	12
28	Quantifying the influence of seedlot and stand density on growth, wood properties and the economics of growing radiata pine. <i>Forestry</i> , 2018, 91, 327-340.	1.2	12
29	Nurse tissue for embryo rescue: testing new conifer somatic embryogenesis methods in a F1 hybrid pine. <i>Trees - Structure and Function</i> , 2017, 31, 273-283.	0.9	11
30	Quantitative Genetic Variation in Bark Stripping of <i>Pinus radiata</i> . <i>Forests</i> , 2020, 11, 1356.	0.9	11
31	Susceptibility of some <i>Eucalyptus</i> species and their hybrids to possum damage. <i>Australian Forestry</i> , 2002, 65, 23-30.	0.3	10
32	Stand density and genetic improvement have site-specific effects on the economic returns from <i>Pinus radiata</i> plantations. <i>Forest Ecology and Management</i> , 2019, 446, 80-92.	1.4	10
33	The effectiveness of cloning for the genetic improvement of Mexican white cypress <i>Cupressus lusitanica</i> (Mill.). <i>Tree Genetics and Genomes</i> , 2013, 9, 443-453.	0.6	9
34	Assessing the genetic variation of tolerance to red needle cast in a <i>Pinus radiata</i> breeding population. <i>Tree Genetics and Genomes</i> , 2018, 14, 1.	0.6	9
35	Evaluation of forest tree breeding strategies based on partial pedigree reconstruction through simulations: <i>Pinus pinaster</i> and <i>Eucalyptus nitens</i> as case studies. <i>Canadian Journal of Forest Research</i> , 2019, 49, 1504-1515.	0.8	9
36	Spatial Models With Inter-Tree Competition From Airborne Laser Scanning Improve Estimates of Genetic Variance. <i>Frontiers in Plant Science</i> , 2020, 11, 596315.	1.7	9

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37	Development and Validation of a 36K SNP Array for Radiata Pine ( <i>Pinus radiata</i> D.Don). <i>Forests</i> , 2022, 13, 176.	0.9	8
38	Genotype-by-environment interaction in coast redwood outside natural distribution - search for environmental cues. <i>BMC Genetics</i> , 2020, 21, 15.	2.7	7
39	Heartwood of <i>Cupressus lusitanica</i> , <i>C. macrocarpa</i> , Leyland and Ovens cypress and prediction of its durability using near-infrared spectroscopy. <i>European Journal of Wood and Wood Products</i> , 2013, 71, 183-192.	1.3	6
40	Genetic improvement of resistance to <i>Cyclaneusma</i> needle cast in <i>Pinus radiata</i> . <i>Canadian Journal of Forest Research</i> , 2019, 49, 128-133.	0.8	6
41	Improvement of non-key traits in radiata pine breeding programme when long-term economic importance is uncertain. <i>PLoS ONE</i> , 2017, 12, e0177806.	1.1	6
42	Intraspecific hybridization in <i>Pinus caribaea</i> var. <i>hondurensis</i> II. Genetic parameters. <i>Euphytica</i> , 2003, 129, 159-168.	0.6	4
43	Growth and productivity of New Zealand kauri ( <i>Agathis australis</i> (D.Don) Lindl.) in planted forests. <i>New Zealand Journal of Forestry Science</i> , 2014, 44, .	0.8	4
44	Genotype by environment interaction for growth and <i>Dothistroma</i> resistance and clonal connectivity between environments in radiata pine in New Zealand and Australia. <i>PLoS ONE</i> , 2018, 13, e0205402.	1.1	4
45	Modelling of population structure through contemporary groups in genetic evaluation. <i>BMC Genetics</i> , 2019, 20, 81.	2.7	4
46	Genetic Variation for Economically Important Traits in <i>Cupressus lusitanica</i> in New Zealand. <i>Frontiers in Plant Science</i> , 2021, 12, 651729.	1.7	4
47	The Use of "Genotyping-by-Sequencing" to Recover Shared Genealogy in Genetically Diverse <i>Eucalyptus</i> Populations. <i>Forests</i> , 2021, 12, 904.	0.9	4
48	Genetic Variation in Drought-Tolerance Traits and Their Relationships to Growth in <i>Pinus radiata</i> D. Don Under Water Stress. <i>Frontiers in Plant Science</i> , 2021, 12, 766803.	1.7	4
49	Genomics-Enabled Management of Genetic Resources in Radiata Pine. <i>Forests</i> , 2022, 13, 282.	0.9	4
50	Indication of Quantitative Multiple Disease Resistance to Foliar Pathogens in <i>Pinus radiata</i> D.Don in New Zealand. <i>Frontiers in Plant Science</i> , 2020, 11, 1044.	1.7	3
51	Title is missing!. <i>Euphytica</i> , 2003, 129, 147-157.	0.6	2
52	Forest Genetics for Productivity " the next generation. <i>New Zealand Journal of Forestry Science</i> , 2016, 46, .	0.8	2
53	A "Reality Check"™ in the Management of Tree Breeding Programmes. <i>Forestry Sciences</i> , 2014, , 461-479.	0.4	2
54	Comparative performance of <i>Eucalyptus bicostata</i> , <i>E. globulus</i> , <i>E. maidenii</i> and <i>E. pseudoglobulus</i> on three northern New Zealand sites. <i>New Zealand Journal of Forestry Science</i> , 2013, 43, 6.	0.8	1

#	ARTICLE	IF	CITATIONS
55	Chasing genetic correlation breakers to stimulate population resilience to climate change. Scientific Reports, 2022, 12, 8238.	1.6	1