

Joost van Heerwaarden

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,095
citations

331259

21
h-index

276539

41
g-index

42
all docs

42
docs citations

42
times ranked

4995
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative population genomics of maize domestication and improvement. <i>Nature Genetics</i> , 2012, 44, 808-811.	9.4	816
2	Genetic signals of origin, spread, and introgression in a large sample of maize landraces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1088-1092.	3.3	357
3	Patterns of Population Structure and Environmental Associations to Aridity Across the Range of Loblolly Pine (<i>Pinus taeda</i> L., Pinaceae). <i>Genetics</i> , 2010, 185, 969-982.	1.2	332
4	Historical genomics of North American maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12420-12425.	3.3	151
5	Genetic architecture of plant stress resistance: multi-trait genome-wide association mapping. <i>New Phytologist</i> , 2017, 213, 1346-1362.	3.5	144
6	Unique haplotypes of co-segregating major histocompatibility class II A and class II B alleles in Atlantic salmon (<i>Salmo salar</i>) give rise to diverse class II genotypes. <i>Immunogenetics</i> , 2002, 54, 320-331.	1.2	124
7	Understanding variability in soybean yield and response to P-fertilizer and rhizobium inoculants on farmers' fields in northern Nigeria. <i>Field Crops Research</i> , 2016, 186, 133-145.	2.3	119
8	Maize crop nutrient input requirements for food security in sub-Saharan Africa. <i>Global Food Security</i> , 2019, 23, 9-21.	4.0	115
9	Transgenes in Mexican maize: molecular evidence and methodological considerations for GMO detection in landrace populations. <i>Molecular Ecology</i> , 2009, 18, 750-761.	2.0	113
10	Determination of genetic structure of germplasm collections: are traditional hierarchical clustering methods appropriate for molecular marker data?. <i>Theoretical and Applied Genetics</i> , 2011, 123, 195-205.	1.8	103
11	Performance of genomic prediction within and across generations in maritime pine. <i>BMC Genomics</i> , 2016, 17, 604.	1.2	82
12	Additive yield response of chickpea (<i>Cicer arietinum</i> L.) to rhizobium inoculation and phosphorus fertilizer across smallholder farms in Ethiopia. <i>Agriculture, Ecosystems and Environment</i> , 2018, 261, 144-152.	2.5	60
13	Estimating maize genetic erosion in modernized smallholder agriculture. <i>Theoretical and Applied Genetics</i> , 2009, 119, 875-888.	1.8	48
14	Genetic diversity in a crop metapopulation. <i>Heredity</i> , 2010, 104, 28-39.	1.2	42
15	Genome-wide distribution of genetic diversity and linkage disequilibrium in a mass-selected population of maritime pine. <i>BMC Genomics</i> , 2014, 15, 171.	1.2	41
16	Soyabean response to rhizobium inoculation across sub-Saharan Africa: Patterns of variation and the role of promiscuity. <i>Agriculture, Ecosystems and Environment</i> , 2018, 261, 211-218.	2.5	38
17	Fine scale genetic structure in the wild ancestor of maize (<i>Zea mays</i> ssp. <i>parviglumis</i>). <i>Molecular Ecology</i> , 2010, 19, 1162-1173.	2.0	37
18	Linkage and Association Mapping for Two Major Traits Used in the Maritime Pine Breeding Program: Height Growth and Stem Straightness. <i>PLoS ONE</i> , 2016, 11, e0165323.	1.1	36

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19	Development of a <i>Nasonia vitripennis</i> outbred laboratory population for genetic analysis. <i>Molecular Ecology Resources</i> , 2014, 14, 578-587.	2.2	33
20	Genetic Interaction Studies Reveal Superior Performance of <i>Rhizobium tropici</i> CIAT899 on a Range of Diverse East African Common Bean (<i>Phaseolus vulgaris</i> L.) Genotypes. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	29
21	Major histocompatibility genes in the Lake Tana African large barb species flock: evidence for complete partitioning of class II B, but not class I, genes among different species. <i>Immunogenetics</i> , 2005, 56, 894-908.	1.2	28
22	Natural variation in life history strategy of <i>Arabidopsis thaliana</i> determines stress responses to drought and insects of different feeding guilds. <i>Molecular Ecology</i> , 2017, 26, 2959-2977.	2.0	23
23	Statistical Techniques for Defining Reference Sets of Accessions and Microsatellite Markers. <i>Crop Science</i> , 2011, 51, 2401-2411.	0.8	22
24	Improving Hierarchical Clustering of Genotypic Data via Principal Component Analysis. <i>Crop Science</i> , 2013, 53, 1546-1554.	0.8	22
25	Water and radiation use efficiencies explain the effect of potassium on the productivity of cassava. <i>European Journal of Agronomy</i> , 2017, 83, 28-39.	1.9	22
26	New Genes in Traditional Seed Systems: Diffusion, Detectability and Persistence of Transgenes in a Maize Metapopulation. <i>PLoS ONE</i> , 2012, 7, e46123.	1.1	20
27	Maximizing genetic differentiation in core collections by PCA-based clustering of molecular marker data. <i>Theoretical and Applied Genetics</i> , 2013, 126, 763-772.	1.8	20
28	Conservation agriculture with trees amplifies negative effects of reduced tillage on maize performance in East Africa. <i>Field Crops Research</i> , 2018, 221, 238-244.	2.3	18
29	Whole-Genome Hitchhiking on an Organelle Mutation. <i>Current Biology</i> , 2016, 26, 1306-1311.	1.8	17
30	Resolution of the Mexican transgene detection controversy: error sources and scientific practice in commercial and ecological contexts. <i>Molecular Ecology</i> , 2009, 18, 4145-4150.	2.0	14
31	Using household survey data to identify large-scale food security patterns across Uganda. <i>PLoS ONE</i> , 2018, 13, e0208714.	1.1	12
32	DO OPEN-POLLINATED MAIZE VARIETIES PERFORM BETTER THAN HYBRIDS IN AGROFORESTRY SYSTEMS?. <i>Experimental Agriculture</i> , 2019, 55, 649-661.	0.4	9
33	Symbiotic interactions between chickpea (<i>Cicer arietinum</i> L.) genotypes and <i>Mesorhizobium</i> strains. <i>Symbiosis</i> , 2020, 82, 235-248.	1.2	9
34	Phylogeographic distribution of rhizobia nodulating common bean (<i>Phaseolus vulgaris</i> L.) in Ethiopia. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	1.3	8
35	Genome-Wide Association Analysis of Adaptation Using Environmentally Predicted Traits. <i>PLoS Genetics</i> , 2015, 11, e1005594.	1.5	7
36	Phylogeography and Symbiotic Effectiveness of Rhizobia Nodulating Chickpea (<i>Cicer arietinum</i> L.) in Ethiopia. <i>Microbial Ecology</i> , 2021, 81, 703-716.	1.4	6

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37	Quantifying the prevalence of (non)-response to fertilizers in sub-Saharan Africa using on-farm trial data. <i>Nutrient Cycling in Agroecosystems</i> , 2021, 121, 257-269.	1.1	6
38	Tracing legume seed diffusion beyond demonstration trials: An exploration of sharing mechanisms. <i>Outlook on Agriculture</i> , 2020, 49, 29-38.	1.8	5
39	Nutrient Deficiencies Are Key Constraints to Grain Legume Productivity on “Non-responsive” Soils in Sub-Saharan Africa. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	4
40	Appropriate homoplasmy metrics in linked SSRs to predict an underestimation of demographic expansion times. <i>BMC Evolutionary Biology</i> , 2017, 17, 213.	3.2	1