

H-P Piepho

List of Publications by Year in descending order

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474
papers

18,070
citations

17776

65
h-index

33145

104
g-index

495
all docs

495
docs citations

495
times ranked

15888
citing authors

#	ARTICLE	IF	CITATIONS
1	BLUP for phenotypic selection in plant breeding and variety testing. <i>Euphytica</i> , 2008, 161, 209-228.	0.6	569
2	Computing Heritability and Selection Response From Unbalanced Plant Breeding Trials. <i>Genetics</i> , 2007, 177, 1881-1888.	1.2	483
3	Statistical Analysis of Yield Trials by AMMI and GGE: Further Considerations. <i>Crop Science</i> , 2008, 48, 866-889.	0.8	347
4	An Algorithm for a Letter-Based Representation of All-Pairwise Comparisons. <i>Journal of Computational and Graphical Statistics</i> , 2004, 13, 456-466.	0.9	313
5	The Area Under the Disease Progress Stairs: Calculation, Advantage, and Application. <i>Phytopathology</i> , 2012, 102, 381-389.	1.1	288
6	A Hitchhiker's Guide to Mixed Models for Randomized Experiments. <i>Journal of Agronomy and Crop Science</i> , 2003, 189, 310-322.	1.7	282
7	Comparison of Mixed-Model Approaches for Association Mapping. <i>Genetics</i> , 2008, 178, 1745-1754.	1.2	273
8	Genomic selection using regularized linear regression models: ridge regression, lasso, elastic net and their extensions. <i>BMC Proceedings</i> , 2012, 6, S10.	1.8	245
9	Extreme Wildlife Declines and Concurrent Increase in Livestock Numbers in Kenya: What Are the Causes?. <i>PLoS ONE</i> , 2016, 11, e0163249.	1.1	239
10	Ridge Regression and Extensions for Genomewide Selection in Maize. <i>Crop Science</i> , 2009, 49, 1165-1176.	0.8	234
11	What's normal anyway? Residual plots are more telling than significance tests when checking ANOVA assumptions. <i>Journal of Agronomy and Crop Science</i> , 2018, 204, 86-98.	1.7	227
12	Methods for Comparing the Yield Stability of Cropping Systems. <i>Journal of Agronomy and Crop Science</i> , 1998, 180, 193-213.	1.7	221
13	Continuing wildlife population declines and range contraction in the Mara region of Kenya during 1977-2009. <i>Journal of Zoology</i> , 2011, 285, 99-109.	0.8	191
14	Comparison of Weighting in Two-Stage Analysis of Plant Breeding Trials. <i>Crop Science</i> , 2009, 49, 1977-1988.	0.8	183
15	Analyzing Genotype-Environment Data by Mixed Models with Multiplicative Terms. <i>Biometrics</i> , 1997, 53, 761.	0.8	170
16	A comparison of random forests, boosting and support vector machines for genomic selection. <i>BMC Proceedings</i> , 2011, 5, S11.	1.8	169
17	A Mixed Modelling Approach for Randomized Experiments with Repeated Measures. <i>Journal of Agronomy and Crop Science</i> , 2004, 190, 230-247.	1.7	154
18	Empirical best linear unbiased prediction in cultivar trials using factor-analytic variance-covariance structures. <i>Theoretical and Applied Genetics</i> , 1998, 97, 195-201.	1.8	152

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19	A Quick Method for Computing Approximate Thresholds for Quantitative Trait Loci Detection. <i>Genetics</i> , 2001, 157, 425-432.	1.2	150
20	A stage-wise approach for the analysis of multi-environment trials. <i>Biometrical Journal</i> , 2012, 54, 844-860.	0.6	145
21	Variation explained in mixed-model association mapping. <i>Heredity</i> , 2010, 105, 333-340.	1.2	133
22	Breeding progress, environmental variation and correlation of winter wheat yield and quality traits in German official variety trials and on-farm during 1983–2014. <i>Theoretical and Applied Genetics</i> , 2017, 130, 223-245.	1.8	133
23	Yield stability of hybrids versus lines in wheat, barley, and triticale. <i>Theoretical and Applied Genetics</i> , 2014, 127, 309-316.	1.8	130
24	Dynamics of Mara–Serengeti ungulates in relation to land use changes. <i>Journal of Zoology</i> , 2009, 278, 1-14.	0.8	129
25	The Role of Epistasis in the Manifestation of Heterosis: A Systems-Oriented Approach. <i>Genetics</i> , 2007, 177, 1815-1825.	1.2	125
26	Best Linear Unbiased Prediction (BLUP) for regional yield trials: a comparison to additive main effects and multiplicative interaction (AMMI) analysis. <i>Theoretical and Applied Genetics</i> , 1994, 89, 647-654.	1.8	119
27	Current statistical issues in <i>Weed Research</i> . <i>Weed Research</i> , 2010, 50, 5-24.	0.8	118
28	Stability Analysis Using the SAS System. <i>Agronomy Journal</i> , 1999, 91, 154-160.	0.9	116
29	Rainfall influences on ungulate population abundance in the Mara–Serengeti ecosystem. <i>Journal of Animal Ecology</i> , 2008, 77, 814-829.	1.3	115
30	Assessing the importance of genotype–environment interaction for root traits in rice using a mapping population II: conventional QTL analysis. <i>Theoretical and Applied Genetics</i> , 2006, 113, 953-964.	1.8	113
31	Comparison of Maize (<i>Zea mays</i> L.) F1-Hybrid and Parental Inbred Line Primary Root Transcriptomes Suggests Organ-Specific Patterns of Nonadditive Gene Expression and Conserved Expression Trends. <i>Genetics</i> , 2008, 179, 1275-1283.	1.2	111
32	Genetic and non-genetic long-term trends of 12 different crops in German official variety performance trials and on-farm yield trends. <i>Theoretical and Applied Genetics</i> , 2014, 127, 2599-2617.	1.8	111
33	Augmented p-rep designs. <i>Biometrical Journal</i> , 2011, 53, 19-27.	0.6	109
34	Efficient phosphorus application strategies for increased crop production in sub-Saharan West Africa. <i>Field Crops Research</i> , 2001, 72, 1-15.	2.3	104
35	Manifestation of heterosis during early maize (<i>Zea mays</i> L.) root development. <i>Theoretical and Applied Genetics</i> , 2006, 112, 421-429.	1.8	104
36	Effects of soybean variety and Bradyrhizobium strains on yield, protein content and biological nitrogen fixation under cool growing conditions in Germany. <i>European Journal of Agronomy</i> , 2016, 72, 38-46.	1.9	104

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37	Enviromics in breeding: applications and perspectives on envirotypic-assisted selection. Theoretical and Applied Genetics, 2021, 134, 95-112.	1.8	103
38	Effect of supplementation of xylanase and phospholipase to a wheat-based diet for weanling pigs on nutrient digestibility and concentrations of microbial metabolites in ileal digesta and feces1. Journal of Animal Science, 2004, 82, 2647-2656.	0.2	102
39	Analysis of Unbalanced Data by Mixed Linear Models Using the mixed Procedure of the SAS System. Journal of Agronomy and Crop Science, 2005, 191, 47-54.	1.7	97
40	Comparative expression profiling in meristems of inbred-hybrid triplets of maize based on morphological investigations of heterosis for plant height. Plant Molecular Biology, 2006, 63, 21-34.	2.0	97
41	Association mapping reveals gene action and interactions in the determination of flowering time in barley. Theoretical and Applied Genetics, 2009, 118, 259-273.	1.8	96
42	Genetic Basis of Heterosis for Growth-Related Traits in Arabidopsis Investigated by Testcross Progenies of Near-Isogenic Lines Reveals a Significant Role of Epistasis. Genetics, 2007, 177, 1827-1837.	1.2	95
43	Heritability in Plant Breeding on a Genotype-Difference Basis. Genetics, 2019, 212, 991-1008.	1.2	94
44	Data Transformation in Statistical Analysis of Field Trials with Changing Treatment Variance. Agronomy Journal, 2009, 101, 865-869.	0.9	93
45	Drought yield index to select high yielding rice lines under different drought stress severities. Rice, 2012, 5, 31.	1.7	92
46	A Mixed-Model Approach to Mapping Quantitative Trait Loci in Barley on the Basis of Multiple Environment Data. Genetics, 2000, 156, 2043-2050.	1.2	91
47	Genome-based prediction of maize hybrid performance across genetic groups, testers, locations, and years. Theoretical and Applied Genetics, 2014, 127, 1375-1386.	1.8	90
48	El Niño Southern Oscillation, rainfall, temperature and Normalized Difference Vegetation Index fluctuations in the Mara Serengeti ecosystem. African Journal of Ecology, 2008, 46, 132-143.	0.4	88
49	Simultaneous improvement of grain yield and protein content in durum wheat by different phenotypic indices and genomic selection. Theoretical and Applied Genetics, 2018, 131, 1315-1329.	1.8	87
50	Influence of coastal vegetation on the 2004 tsunami wave impact in west Aceh. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18612-18617.	3.3	86
51	Selection in Cultivar Trials Is It Ignorable?. Crop Science, 2006, 46, 192-201.	0.8	85
52	Model training across multiple breeding cycles significantly improves genomic prediction accuracy in rye (Secale cereale L.). Theoretical and Applied Genetics, 2016, 129, 2043-2053.	1.8	84
53	Best Linear Unbiased Prediction of Cultivar Effects for Subdivided Target Regions. Crop Science, 2005, 45, 1151-1159.	0.8	81
54	Statistical Models and Methods for Network Meta-Analysis. Phytopathology, 2016, 106, 792-806.	1.1	81

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55	Comparing the performance of cereal varieties in organic and non-organic cropping systems in different European countries. <i>Euphytica</i> , 2008, 163, 417-433.	0.6	80
56	Nonsyntenic Genes Drive Highly Dynamic Complementation of Gene Expression in Maize Hybrids. <i>Plant Cell</i> , 2014, 26, 3939-3948.	3.1	80
57	Outlier detection methods for generalized lattices: a case study on the transition from ANOVA to REML. <i>Theoretical and Applied Genetics</i> , 2016, 129, 787-804.	1.8	80
58	Heterosis in early seed development: a comparative study of F1 embryo and endosperm tissues 6 days after fertilization. <i>Theoretical and Applied Genetics</i> , 2010, 120, 389-400.	1.8	78
59	Extensive tissue-specific transcriptomic plasticity in maize primary roots upon water deficit. <i>Journal of Experimental Botany</i> , 2016, 67, 1095-1107.	2.4	78
60	A coefficient of determination (R^2) for generalized linear mixed models. <i>Biometrical Journal</i> , 2019, 61, 860-872.	0.6	77
61	Molecular marker-based prediction of hybrid performance in maize using unbalanced data from multiple experiments with factorial crosses. <i>Theoretical and Applied Genetics</i> , 2009, 118, 741-751.	1.8	76
62	Development of Heterotic Groups in Triticale. <i>Crop Science</i> , 2010, 50, 584-590.	0.8	76
63	Corn hybrids display lower metabolite variability and complex metabolite inheritance patterns. <i>Plant Journal</i> , 2011, 68, 326-336.	2.8	75
64	Robustness of statistical tests for multiplicative terms in the additive main effects and multiplicative interaction model for cultivar trials. <i>Theoretical and Applied Genetics</i> , 1995, 90, 438-443.	1.8	74
65	One Step at a Time: Stage-Wise Analysis of a Series of Experiments. <i>Agronomy Journal</i> , 2017, 109, 845-857.	0.9	71
66	Breeding progress, variation, and correlation of grain and quality traits in winter rye hybrid and population varieties and national on-farm progress in Germany over 26 years. <i>Theoretical and Applied Genetics</i> , 2017, 130, 981-998.	1.8	71
67	Prediction of hybrid performance in maize using molecular markers and joint analyses of hybrids and parental inbreds. <i>Theoretical and Applied Genetics</i> , 2010, 120, 451-461.	1.8	70
68	Influence of land-use intensity on the spatial distribution of N-cycling microorganisms in grassland soils. <i>FEMS Microbiology Ecology</i> , 2011, 77, 95-106.	1.3	70
69	Agronomic improvements can make future cereal systems in South Asia far more productive and result in a lower environmental footprint. <i>Global Change Biology</i> , 2016, 22, 1054-1074.	4.2	70
70	Marker Pair Selection for Mapping Quantitative Trait Loci. <i>Genetics</i> , 2001, 157, 433-444.	1.2	70
71	Transcriptomic complexity in young maize primary roots in response to low water potentials. <i>BMC Genomics</i> , 2014, 15, 741.	1.2	69
72	Genomic Selection using Multiple Populations. <i>Crop Science</i> , 2012, 52, 2453-2461.	0.8	68

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73	Energy crop production in double-cropping systems: Results from an experiment at seven sites. <i>European Journal of Agronomy</i> , 2013, 51, 120-129.	1.9	68
74	Comparative changes in density and demography of large herbivores in the Masai Mara Reserve and its surrounding human-dominated pastoral ranches in Kenya. <i>Biodiversity and Conservation</i> , 2012, 21, 1509-1530.	1.2	67
75	Dissecting genetic and non-genetic sources of long-term yield trend in German official variety trials. <i>Theoretical and Applied Genetics</i> , 2014, 127, 1009-1018.	1.8	67
76	Analysis of a Triple Testcross Design With Recombinant Inbred Lines Reveals a Significant Role of Epistasis in Heterosis for Biomass-Related Traits in <i>Arabidopsis</i> . <i>Genetics</i> , 2007, 175, 2009-2017.	1.2	65
77	A High-Resolution Tissue-Specific Proteome and Phosphoproteome Atlas of Maize Primary Roots Reveals Functional Gradients along the Root Axes. <i>Plant Physiology</i> , 2015, 168, 233-246.	2.3	64
78	Rainfall trends and variation in the Maasai Mara ecosystem and their implications for animal population and biodiversity dynamics. <i>PLoS ONE</i> , 2018, 13, e0202814.	1.1	61
79	Efficiency of strip- and line-transect surveys of African savanna mammals. <i>Journal of Zoology</i> , 2006, 269, 060303002124001-???	0.8	59
80	A tutorial on the statistical analysis of factorial experiments with qualitative and quantitative treatment factor levels. <i>Journal of Agronomy and Crop Science</i> , 2018, 204, 429-455.	1.7	59
81	Modelling expectation and variance for genotype by environment data. <i>Heredity</i> , 1997, 79, 162-171.	1.2	58
82	The Use of Two-Way Linear Mixed Models in Multitreatment Meta-Analysis. <i>Biometrics</i> , 2012, 68, 1269-1277.	0.8	58
83	Modeling Effective Dosages in Hormetic Dose-Response Studies. <i>PLoS ONE</i> , 2012, 7, e33432.	1.1	58
84	Multi-trait association mapping in sugar beet (<i>Beta vulgaris</i> L.). <i>Theoretical and Applied Genetics</i> , 2008, 117, 947-954.	1.8	57
85	Analysis of nonadditive protein accumulation in young primary roots of a maize (<i>Zea mays</i> L.) inbred line BTx623. <i>Theoretical and Applied Genetics</i> , 2010, 120, 3882-3894.	1.3	57
86	Mineral NPK and manure fertilisation affecting the yield stability of winter wheat: Results from a long-term field experiment. <i>European Journal of Agronomy</i> , 2019, 102, 14-22.	1.9	57
87	Specification of Cortical Parenchyma and Stele of Maize Primary Roots by Asymmetric Levels of Auxin, Cytokinin, and Cytokinin-Regulated Proteins. <i>Plant Physiology</i> , 2009, 152, 4-18.	2.3	56
88	Estimating Broad-Sense Heritability with Unbalanced Data from Agricultural Cultivar Trials. <i>Crop Science</i> , 2019, 59, 525-536.	0.8	56
89	Heterosis for Biomass-Related Traits in <i>Arabidopsis</i> Investigated by Quantitative Trait Loci Analysis of the Triple Testcross Design With Recombinant Inbred Lines. <i>Genetics</i> , 2007, 177, 1839-1850.	1.2	55
90	Meta-Analysis of the Relative Efficiency of Methionine-Hydroxy-Analogue-Free-Acid Compared with dl-Methionine in Broilers Using Nonlinear Mixed Models. <i>Poultry Science</i> , 2008, 87, 2023-2031.	1.5	55

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91	The distribution of large herbivore hotspots in relation to environmental and anthropogenic correlates in the Mara region of Kenya. <i>Journal of Animal Ecology</i> , 2012, 81, 1268-1287.	1.3	55
92	Dynamics of ungulates in relation to climatic and land use changes in an insularized African savanna ecosystem. <i>Biodiversity and Conservation</i> , 2012, 21, 1033-1053.	1.2	55
93	Livestock Diversification: an Adaptive Strategy to Climate and Rangeland Ecosystem Changes in Southern Ethiopia. <i>Human Ecology</i> , 2014, 42, 509-520.	0.7	55
94	Factors controlling the variability of organic matter in the top- and subsoil of a sandy Dystric Cambisol under beech forest. <i>Geoderma</i> , 2018, 311, 37-44.	2.3	55
95	Nearest Neighbour Adjustment and Linear Variance Models in Plant Breeding Trials. <i>Biometrical Journal</i> , 2008, 50, 164-189.	0.6	53
96	Large herbivore responses to water and settlements in savannas. <i>Ecological Monographs</i> , 2010, 80, 241-266.	2.4	52
97	Comparisons of single-stage and two-stage approaches to genomic selection. <i>Theoretical and Applied Genetics</i> , 2013, 126, 69-82.	1.8	51
98	Genomic selection allowing for marker-by-environment interaction. <i>Plant Breeding</i> , 2013, 132, 532-538.	1.0	51
99	The importance of phenotypic data analysis for genomic prediction - a case study comparing different spatial models in rye. <i>BMC Genomics</i> , 2014, 15, 646.	1.2	51
100	A simulation study on tests of hypotheses and confidence intervals for fixed effects in mixed models for blocked experiments with missing data. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2005, 10, 374-389.	0.7	50
101	Validation of candidate genes putatively associated with resistance to SCMV and MDMV in maize (<i>Zea mays</i>) L. <i>Theoretical and Applied Genetics</i> , 2014, 126, 1078-1091.	1.6	50
102	Linear variance models for plant breeding trials. <i>Plant Breeding</i> , 2010, 129, 1-8.	1.0	50
103	Large herbivore responses to surface water and land use in an East African savanna: implications for conservation and human-wildlife conflicts. <i>Biodiversity and Conservation</i> , 2014, 23, 573-596.	1.2	50
104	Single-Parent Expression Is a General Mechanism Driving Extensive Complementation of Non-syntenic Genes in Maize Hybrids. <i>Current Biology</i> , 2018, 28, 431-437.e4.	1.8	50
105	Strategies to Subdivide a Target Population of Environments: Results from the CIMMYT-led Maize Hybrid Testing Programs in Africa. <i>Crop Science</i> , 2012, 52, 2143-2152.	0.8	49
106	Impacts of climate change and variability on cattle production in southern Ethiopia: Perceptions and empirical evidence. <i>Agricultural Systems</i> , 2014, 130, 23-34.	3.2	49
107	REML approach for adjusting the Fusarium head blight rating to a phenological date in inoculated selection experiments of wheat. <i>Theoretical and Applied Genetics</i> , 2008, 117, 65-73.	1.8	48
108	High-yielding, drought-tolerant, stable rice genotypes for the shallow rainfed lowland drought-prone ecosystem. <i>Field Crops Research</i> , 2012, 133, 37-47.	2.3	48

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109	Network-meta analysis made easy: detection of inconsistency using factorial analysis-of-variance models. <i>BMC Medical Research Methodology</i> , 2014, 14, 61.	1.4	48
110	Long-Term Experiments with cropping systems: Case studies on data analysis. <i>European Journal of Agronomy</i> , 2016, 77, 223-235.	1.9	48
111	Population structure and phenotypic variation of a spring barley world collection set up for association studies. <i>Plant Breeding</i> , 2010, 129, 271-279.	1.0	47
112	REML-Based Diallel Analysis. <i>Crop Science</i> , 2011, 51, 470-478.	0.8	47
113	Chemical composition and standardised ileal digestibilities of crude protein and amino acids in grain legumes for growing pigs. <i>Livestock Science</i> , 2011, 138, 229-243.	0.6	47
114	Response of soil fertility indices to long-term application of biogas and raw slurry under organic farming. <i>Applied Soil Ecology</i> , 2015, 96, 99-107.	2.1	47
115	Codominant Analysis of Banding Data From a Dominant Marker System by Normal Mixtures. <i>Genetics</i> , 2000, 155, 1459-1468.	1.2	47
116	Statistical aspects of on-farm experimentation. <i>Crop and Pasture Science</i> , 2011, 62, 721.	0.7	46
117	Hippopotamus and livestock grazing: influences on riparian vegetation and facilitation of other herbivores in the Mara Region of Kenya. <i>Landscape and Ecological Engineering</i> , 2013, 9, 47-58.	0.7	46
118	Genetic parameters for feather pecking and aggressive behavior in a large F2-cross of laying hens using generalized linear mixed models. <i>Poultry Science</i> , 2014, 93, 810-817.	1.5	46
119	Higher grain yield and higher grain protein deviation underline the potential of hybrid wheat for a sustainable agriculture. <i>Plant Breeding</i> , 2018, 137, 326-337.	1.0	46
120	Digesta characteristics of dorsal, middle and ventral rumen of cows fed with different hay qualities and concentrate levels. <i>Archives of Animal Nutrition</i> , 2004, 58, 325-342.	0.9	45
121	Efficiency of augmented p-rep designs in multi-environmental trials. <i>Theoretical and Applied Genetics</i> , 2014, 127, 1049-1060.	1.8	45
122	Influence of elevated soil temperature and biochar application on organic matter associated with aggregate-size and density fractions in an arable soil. <i>Agriculture, Ecosystems and Environment</i> , 2017, 241, 79-87.	2.5	45
123	Letters in Mean Comparisons: What They Do and Don't Mean. <i>Agronomy Journal</i> , 2018, 110, 431-434.	0.9	45
124	Soil microbial community structure and function mainly respond to indirect effects in a multifactorial climate manipulation experiment. <i>Soil Biology and Biochemistry</i> , 2020, 142, 107704.	4.2	45
125	Trends in genetic variance components during 30 years of hybrid maize breeding at the University of Hohenheim. <i>Plant Breeding</i> , 2008, 127, 446-451.	1.0	44
126	Integrating a simple shading algorithm into CERES-wheat and CERES-maize with particular regard to a changing microclimate within a relay-intercropping system. <i>Field Crops Research</i> , 2011, 121, 274-285.	2.3	44

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127	Herbivore Dynamics and Range Contraction in Kajiado County Kenya: Climate and Land Use Changes, Population Pressures, Governance, Policy and Human-wildlife Conflicts. <i>Open Ecology Journal</i> , 2014, 7, 9-31.	2.0	44
128	The Effect of Feather Eating on Feed Passage in Laying Hens. <i>Poultry Science</i> , 2006, 85, 21-25.	1.5	43
129	Power to Detect Higher-Order Epistatic Interactions in a Metabolic Pathway Using a New Mapping Strategy. <i>Genetics</i> , 2007, 176, 563-570.	1.2	43
130	Analysing disease incidence data from designed experiments by generalized linear mixed models. <i>Plant Pathology</i> , 1999, 48, 668-674.	1.2	42
131	Optimal marker density for interval mapping in a backcross population. <i>Heredity</i> , 2000, 84, 437-440.	1.2	42
132	Testcross performance of rye introgression lines developed by marker-assisted backcrossing using an Iranian accession as donor. <i>Theoretical and Applied Genetics</i> , 2009, 118, 1225-1238.	1.8	42
133	Nonadditive Protein Accumulation Patterns in Maize (<i>Zea mays</i> L.) Hybrids during Embryo Development. <i>Journal of Proteome Research</i> , 2010, 9, 6511-6522.	1.8	42
134	Efficient Computation of Ridgeâ€Regression Best Linear Unbiased Prediction in Genomic Selection in Plant Breeding. <i>Crop Science</i> , 2012, 52, 1093-1104.	0.8	42
135	Crop yield evaluation under controlled drainage in Ohio, United States. <i>Journal of Soils and Water Conservation</i> , 2012, 67, 465-473.	0.8	42
136	Transcriptomic reprogramming of barley seminal roots by combined water deficit and salt stress. <i>BMC Genomics</i> , 2019, 20, 325.	1.2	42
137	Wildlife Population Dynamics in Human-Dominated Landscapes under Community-Based Conservation: The Example of Nakuru Wildlife Conservancy, Kenya. <i>PLoS ONE</i> , 2017, 12, e0169730.	1.1	42
138	Selection Strategy for Sorghum Targeting Phosphorusâ€Limited Environments in West Africa: Analysis of Multiâ€Environment Experiments. <i>Crop Science</i> , 2012, 52, 2517-2527.	0.8	41
139	Similar spatial patterns of soil quality indicators in three poplar-based silvo-arable alley cropping systems in Germany. <i>Biology and Fertility of Soils</i> , 2019, 55, 1-14.	2.3	41
140	Statistical tests for QTL and QTL-by-environment effects in segregating populations derived from line crosses. <i>Theoretical and Applied Genetics</i> , 2005, 110, 561-566.	1.8	39
141	Molecular marker assisted broadening of the Central European heterotic groups in rye with Eastern European germplasm. <i>Theoretical and Applied Genetics</i> , 2010, 120, 291-299.	1.8	39
142	MULTI-SITE TIME-TREND ANALYSIS OF SOIL FERTILITY MANAGEMENT EFFECTS ON CROP PRODUCTION IN SUB-SAHARAN WEST AFRICA. <i>Experimental Agriculture</i> , 2002, 38, 163-183.	0.4	38
143	Occurrence and Distribution of 13 Trichothecene Toxins in Naturally Contaminated Maize Plants in Germany. <i>Toxins</i> , 2012, 4, 778-787.	1.5	38
144	Evaluation of approaches for estimating the accuracy of genomic prediction in plant breeding. <i>BMC Genomics</i> , 2013, 14, 860.	1.2	38

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145	Assessing the importance of genotype x environment interaction for root traits in rice using a mapping population. I: a soil-filled box screen. <i>Theoretical and Applied Genetics</i> , 2006, 113, 977-986.	1.8	37
146	Regularized group regression methods for genomic prediction: Bridge, MCP, SCAD, group bridge, group lasso, sparse group lasso, group MCP and group SCAD. <i>BMC Proceedings</i> , 2014, 8, S7.	1.8	37
147	A turbidity-based method to continuously monitor sediment, carbon and nitrogen flows in mountainous watersheds. <i>Journal of Hydrology</i> , 2014, 513, 45-57.	2.3	37
148	Genetic gain for rice yield in rainfed environments in India. <i>Field Crops Research</i> , 2021, 260, 107977.	2.3	37
149	Stability of Single-Parent Gene Expression Complementation in Maize Hybrids upon Water Deficit Stress. <i>Plant Physiology</i> , 2017, 173, 1247-1257.	2.3	36
150	Analysis of series of variety trials with perennial crops. <i>Grass and Forage Science</i> , 2014, 69, 431-440.	1.2	35
151	Breeding progress, genotypic and environmental variation and correlation of quality traits in malting barley in German official variety trials between 1983 and 2015. <i>Theoretical and Applied Genetics</i> , 2017, 130, 2411-2429.	1.8	35
152	Decoupling of impact factors reveals the response of German winter wheat yields to climatic changes. <i>Global Change Biology</i> , 2020, 26, 3601-3626.	4.2	35
153	A comparison of experimental designs for selection in breeding trials with nested treatment structure. <i>Theoretical and Applied Genetics</i> , 2006, 113, 1505-1513.	1.8	34
154	DNA polymorphisms and haplotype patterns of transcription factors involved in barley endosperm development are associated with key agronomic traits. <i>BMC Plant Biology</i> , 2010, 10, 5.	1.6	34
155	Stability analysis of farmer participatory trials for conservation agriculture using mixed models. <i>Field Crops Research</i> , 2011, 121, 450-459.	2.3	34
156	Integration of genotypic, hyperspectral, and phenotypic data to improve biomass yield prediction in hybrid rye. <i>Theoretical and Applied Genetics</i> , 2020, 133, 3001-3015.	1.8	34
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