

Chris-Carolin Schön

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

6,237
citations

71102

41
h-index

74163

75
g-index

100
all docs

100
docs citations

100
times ranked

5435
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution association mapping with libraries of immortalized lines from ancestral landraces. <i>Theoretical and Applied Genetics</i> , 2022, 135, 243-256.	3.6	5
2	Genetic diversity of European maize landraces: Dataset on the molecular and phenotypic variation of derived doubled-haploid populations. <i>Data in Brief</i> , 2022, 42, 108164.	1.0	4
3	Theoretical and experimental assessment of genome-based prediction in landraces of allogamous crops. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2121797119.	7.1	4
4	Natural alleles of the abscisic acid catabolism gene <i>ZmAbh4</i> modulate water use efficiency and carbon isotope discrimination in maize. <i>Plant Cell</i> , 2022, 34, 3860-3872.	6.6	5
5	Exploiting genetic diversity in two European maize landraces for improving <i>Gibberella</i> ear rot resistance using genomic tools. <i>Theoretical and Applied Genetics</i> , 2021, 134, 793-805.	3.6	18
6	The carbon isotopic signature of C4 crops and its applicability in breeding for climate resilience. <i>Theoretical and Applied Genetics</i> , 2021, 134, 1663-1675.	3.6	8
7	Joint analysis of days to flowering reveals independent temperate adaptations in maize. <i>Heredity</i> , 2021, 126, 929-941.	2.6	4
8	Accounting for epistasis improves genomic prediction of phenotypes with univariate and bivariate models across environments. <i>Theoretical and Applied Genetics</i> , 2021, 134, 2913-2930.	3.6	5
9	Calibration and validation of predicted genomic breeding values in an advanced cycle maize population. <i>Theoretical and Applied Genetics</i> , 2021, 134, 3069-3081.	3.6	12
10	Increasing calling accuracy, coverage, and read-depth in sequence data by the use of haplotype blocks. <i>PLoS Genetics</i> , 2021, 17, e1009944.	3.5	5
11	Improving Imputation Quality in BEAGLE for Crop and Livestock Data. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 177-188.	1.8	43
12	Inferring trait-specific similarity among individuals from molecular markers and phenotypes with Bayesian regression. <i>Theoretical Population Biology</i> , 2020, 132, 47-59.	1.1	9
13	Discovery of beneficial haplotypes for complex traits in maize landraces. <i>Nature Communications</i> , 2020, 11, 4954.	12.8	38
14	European maize genomes highlight intraspecies variation in repeat and gene content. <i>Nature Genetics</i> , 2020, 52, 950-957.	21.4	84
15	Transcriptomic diversity in seedling roots of European flint maize in response to cold. <i>BMC Genomics</i> , 2020, 21, 300.	2.8	14
16	European maize landraces made accessible for plant breeding and genome-based studies. <i>Theoretical and Applied Genetics</i> , 2019, 132, 3333-3345.	3.6	52
17	Testcross performance of doubled haploid lines from European flint maize landraces is promising for broadening the genetic base of elite germplasm. <i>Theoretical and Applied Genetics</i> , 2019, 132, 1897-1908.	3.6	28
18	Carbon isotope composition, water use efficiency, and drought sensitivity are controlled by a common genomic segment in maize. <i>Theoretical and Applied Genetics</i> , 2019, 132, 53-63.	3.6	26

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19	Genomic Prediction Within and Among Doubled-Haploid Libraries from Maize Landraces. <i>Genetics</i> , 2018, 210, 1185-1196.	2.9	18
20	Generating Plants with Improved Water Use Efficiency. <i>Agronomy</i> , 2018, 8, 194.	3.0	51
21	Assay for abscisic acid 8â€²-hydroxylase activity of cloned plant cytochrome P450 oxidases in <i>Saccharomyces cerevisiae</i> . <i>Analytical Biochemistry</i> , 2018, 553, 24-27.	2.4	6
22	Prediction of Complex Traits: Robust Alternatives to Best Linear Unbiased Prediction. <i>Frontiers in Genetics</i> , 2018, 9, 195.	2.3	29
23	Safeguarding Our Genetic Resources with Libraries of Doubled-Haploid Lines. <i>Genetics</i> , 2017, 206, 1611-1619.	2.9	24
24	Genetic Gain Increases by Applying the Usefulness Criterion with Improved Variance Prediction in Selection of Crosses. <i>Genetics</i> , 2017, 207, 1651-1661.	2.9	65
25	Exploring new alleles for frost tolerance in winter rye. <i>Theoretical and Applied Genetics</i> , 2017, 130, 2151-2164.	3.6	20
26	Is there an optimum level of diversity in utilization of genetic resources?. <i>Theoretical and Applied Genetics</i> , 2017, 130, 2283-2295.	3.6	25
27	Bayesian Networks Illustrate Genomic and Residual Trait Connections in Maize (<i>Zea mays</i> L.). <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 2779-2789.	1.8	16
28	Towards a wholeâ€šgenome sequence for rye (<i>Secale cereale</i> L.). <i>Plant Journal</i> , 2017, 89, 853-869.	5.7	238
29	Geography and end use drive the diversification of worldwide winter rye populations. <i>Molecular Ecology</i> , 2016, 25, 500-514.	3.9	17
30	A comprehensive study of the genomic differentiation between temperate Dent and Flint maize. <i>Genome Biology</i> , 2016, 17, 137.	8.8	51
31	Association mapping for cold tolerance in two large maize inbred panels. <i>BMC Plant Biology</i> , 2016, 16, 127.	3.6	73
32	Model training across multiple breeding cycles significantly improves genomic prediction accuracy in rye (<i>Secale cereale</i> L.). <i>Theoretical and Applied Genetics</i> , 2016, 129, 2043-2053.	3.6	84
33	Oligogenic control of resistance to soilâ€šborne viruses <i>SBCMV</i> and <i>WSSMV</i> in rye (<i>Secale cereale</i> L.). <i>Plant Breeding</i> , 2016, 135, 552-559.	1.9	6
34	Cross-Validation Without Doing Cross-Validation in Genome-Enabled Prediction. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 3107-3128.	1.8	50
35	Genome-Wide Association Studies with a Genomic Relationship Matrix: A Case Study with Wheat and <i>Arabidopsis</i> . <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 3241-3256.	1.8	32
36	The Genetic Basis of Haploid Induction in Maize Identified with a Novel Genome-Wide Association Method. <i>Genetics</i> , 2016, 202, 1267-1276.	2.9	61

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37	Choice of models for QTL mapping with multiple families and design of the training set for prediction of Fusarium resistance traits in maize. <i>Theoretical and Applied Genetics</i> , 2016, 129, 431-444.	3.6	30
38	Diversity analysis and genomic prediction of Sclerotinia resistance in sunflower using a new 25K SNP genotyping array. <i>Theoretical and Applied Genetics</i> , 2016, 129, 317-329.	3.6	22
39	DroughtDB: an expert-curated compilation of plant drought stress genes and their homologs in nine species. <i>Database: the Journal of Biological Databases and Curation</i> , 2015, 2015, bav046.	3.0	62
40	Prolonged expression of the BX1 signature enzyme is associated with a recombination hotspot in the benzoxazinoid gene cluster in <i>Zea mays</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 3917-3930.	4.8	53
41	Resemblance between two relatives – animal and plant breeding. <i>Journal of Animal Breeding and Genetics</i> , 2015, 132, 1-2.	2.0	9
42	Do Molecular Markers Inform About Pleiotropy?. <i>Genetics</i> , 2015, 201, 23-29.	2.9	53
43	Forecasting the accuracy of genomic prediction with different selection targets in the training and prediction set as well as truncation selection. <i>Theoretical and Applied Genetics</i> , 2015, 128, 2189-2201.	3.6	7
44	Improving resistance to the European corn borer: a comprehensive study in elite maize using QTL mapping and genome-wide prediction. <i>Theoretical and Applied Genetics</i> , 2015, 128, 875-891.	3.6	37
45	Assessment of Genetic Heterogeneity in Structured Plant Populations Using Multivariate Whole-Genome Regression Models. <i>Genetics</i> , 2015, 201, 323-337.	2.9	58
46	Enhancing Genome-Enabled Prediction by Bagging Genomic BLUP. <i>PLoS ONE</i> , 2014, 9, e91693.	2.5	41
47	Cold Tolerance in Two Large Maize Inbred Panels Adapted to European Climates. <i>Crop Science</i> , 2014, 54, 1981-1991.	1.8	30
48	Linkage Disequilibrium with Linkage Analysis of Multiline Crosses Reveals Different Multiallelic QTL for Hybrid Performance in the Flint and Dent Heterotic Groups of Maize. <i>Genetics</i> , 2014, 198, 1717-1734.	2.9	89
49	A powerful tool for genome analysis in maize: development and evaluation of the high density 600 k SNP genotyping array. <i>BMC Genomics</i> , 2014, 15, 823.	2.8	242
50	Stable Carbon Isotope Discrimination Is under Genetic Control in the C4 Species Maize with Several Genomic Regions Influencing Trait Expression. <i>Plant Physiology</i> , 2014, 164, 131-143.	4.8	34
51	Genome-based prediction of maize hybrid performance across genetic groups, testers, locations, and years. <i>Theoretical and Applied Genetics</i> , 2014, 127, 1375-1386.	3.6	90
52	Dent and Flint maize diversity panels reveal important genetic potential for increasing biomass production. <i>Theoretical and Applied Genetics</i> , 2014, 127, 2313-2331.	3.6	41
53	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.	2.8	51
54	Usefulness of Multiparental Populations of Maize (<i>Zea mays</i> L.) for Genome-Based Prediction. <i>Genetics</i> , 2014, 198, 3-16.	2.9	114

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55	Statistical Models for the Prediction of Genetic Values. , 2014, , 183-205.		0
56	Genome-Wide Prediction of Traits with Different Genetic Architecture Through Efficient Variable Selection. <i>Genetics</i> , 2013, 195, 573-587.	2.9	129
57	Intraspecific variation of recombination rate in maize. <i>Genome Biology</i> , 2013, 14, R103.	9.6	176
58	BSTA: a targeted approach combines bulked segregant analysis with next-generation sequencing and de novo transcriptome assembly for SNP discovery in sunflower. <i>BMC Genomics</i> , 2013, 14, 628.	2.8	43
59	Reticulate Evolution of the Rye Genome. <i>Plant Cell</i> , 2013, 25, 3685-3698.	6.6	194
60	Sensitivity to prior specification in Bayesian genome-based prediction models. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2013, 12, 375-91.	0.6	27
61	synbreed: a framework for the analysis of genomic prediction data using R. <i>Bioinformatics</i> , 2012, 28, 2086-2087.	4.1	296
62	The genetics of environmental variation of dry matter grain yield in maize. <i>Genetical Research</i> , 2012, 94, 113-119.	0.9	4
63	Maximizing the Reliability of Genomic Selection by Optimizing the Calibration Set of Reference Individuals: Comparison of Methods in Two Diverse Groups of Maize Inbreds (<i>Zea mays</i> L.). <i>Genetics</i> , 2012, 192, 715-728.	2.9	258
64	QTL mapping under truncation selection in homozygous lines derived from biparental crosses. <i>Theoretical and Applied Genetics</i> , 2012, 124, 543-553.	3.6	5
65	Genome-based prediction of testcross values in maize. <i>Theoretical and Applied Genetics</i> , 2011, 123, 339-350.	3.6	268
66	From RNA-seq to large-scale genotyping - genomics resources for rye (<i>Secale cereale</i> L.). <i>BMC Plant Biology</i> , 2011, 11, 131.	3.6	109
67	Association analysis of frost tolerance in rye using candidate genes and phenotypic data from controlled, semi-controlled, and field phenotyping platforms. <i>BMC Plant Biology</i> , 2011, 11, 146.	3.6	47
68	High levels of nucleotide diversity and fast decline of linkage disequilibrium in rye (<i>Secale cereale</i> L.) genes involved in frost response. <i>BMC Plant Biology</i> , 2011, 11, 6.	3.6	55
69	A Large Maize (<i>Zea mays</i> L.) SNP Genotyping Array: Development and Germplasm Genotyping, and Genetic Mapping to Compare with the B73 Reference Genome. <i>PLoS ONE</i> , 2011, 6, e28334.	2.5	523
70	High congruency of QTL positions for heterosis of grain yield in three crosses of maize. <i>Theoretical and Applied Genetics</i> , 2010, 120, 321-332.	3.6	75
71	Fine mapping of the sunflower resistance locus PI ARG introduced from the wild species <i>Helianthus argophyllus</i> . <i>Theoretical and Applied Genetics</i> , 2010, 121, 1633-1644.	3.6	41
72	Development of Heterotic Groups in Triticale. <i>Crop Science</i> , 2010, 50, 584-590.	1.8	76

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73	Impact of Genetic Divergence on the Ratio of Variance Due to Specific vs. General Combining Ability in Winter Triticale. <i>Crop Science</i> , 2009, 49, 2119-2122.	1.8	14
74	Unraveling Epistasis With Triple Testcross Progenies of Near-Isogenic Lines. <i>Genetics</i> , 2009, 181, 247-257.	2.9	28
75	Revealing the genetic architecture of FHB resistance in hexaploid wheat (<i>Triticum aestivum</i> L.) by QTL meta-analysis. <i>Molecular Breeding</i> , 2009, 23, 473-488.	2.1	203
76	Marker selection for Fusarium head blight resistance based on quantitative trait loci (QTL) from two European sources compared to phenotypic selection in winter wheat. <i>Euphytica</i> , 2009, 166, 219-227.	1.2	41
77	Marker-based introduction of three quantitative-trait loci conferring resistance to Fusarium head blight into an independent elite winter wheat breeding population. <i>Theoretical and Applied Genetics</i> , 2008, 117, 29-35.	3.6	41
78	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.	1.9	44
79	Genetic Expectations of Quantitative Trait Loci Main and Interaction Effects Obtained With the Triple Testcross Design and Their Relevance for the Analysis of Heterosis. <i>Genetics</i> , 2008, 178, 2265-2274.	2.9	30
80	The Role of Epistasis in the Manifestation of Heterosis: A Systems-Oriented Approach. <i>Genetics</i> , 2007, 177, 1815-1825.	2.9	125
81	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.	2.9	55
82	Prospects for hybrid breeding in winter triticale: II. Relationship between parental genetic distance and specific combining ability. <i>Plant Breeding</i> , 2006, 125, 331-336.	1.9	24
83	Effect of population size on the estimation of QTL: a test using resistance to barley stripe rust. <i>Theoretical and Applied Genetics</i> , 2005, 111, 1260-1270.	3.6	185
84	QTL mapping of resistance to <i>Sclerotinia</i> midstalk rot in RIL of sunflower population NDBLOSSelAA-ÄCM625. <i>Theoretical and Applied Genetics</i> , 2005, 110, 1490-1498.	3.6	39
85	Identification and validation of QTL for <i>Sclerotinia</i> midstalk rot resistance in sunflower by selective genotyping. <i>Theoretical and Applied Genetics</i> , 2005, 111, 233-242.	3.6	36
86	Quantitative Trait Locus Mapping Based on Resampling in a Vast Maize Testcross Experiment and Its Relevance to Quantitative Genetics for Complex Traits. <i>Genetics</i> , 2004, 167, 485-498.	2.9	231
87	QTL analyses of complex traits with cross validation, bootstrapping and other biometric methods. <i>Euphytica</i> , 2004, 137, 1-11.	1.2	48
88	Hybrid performance and AFLP- based genetic similarity in faba bean. <i>Euphytica</i> , 2004, 139, 207-216.	1.2	14
89	QTL mapping of <i>Sclerotinia</i> midstalk-rot resistance in sunflower. <i>Theoretical and Applied Genetics</i> , 2004, 109, 1474-1484.	3.6	44
90	Genetic diversity in recent elite faba bean lines using AFLP markers. <i>Theoretical and Applied Genetics</i> , 2003, 107, 1304-1314.	3.6	78

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91	RFLP Mapping in Maize: Quantitative Trait Loci Affecting Testcross Performance of Elite European Flint Lines. <i>Crop Science</i> , 1994, 34, 378-389.	1.8	147
92	Influence of barley variety mixtures on severity of scald and net blotch and on yield *. <i>Plant Pathology</i> , 1994, 43, 356-361.	2.4	34
93	Mapping and characterization of quantitative trait loci affecting resistance against second-generation European corn borer in maize with the aid of RFLPs. <i>Heredity</i> , 1993, 70, 648-659.	2.6	135