

# Claude Welcker

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

1,746  
citations

430843

18  
h-index

552766

26  
g-index

36  
all docs

36  
docs citations

36  
times ranked

2416  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-throughput phenotyping reveals differential transpiration behaviour within the banana wild relatives highlighting diversity in drought tolerance. <i>Plant, Cell and Environment</i> , 2022, 45, 1647-1663.	5.7	10
2	Physiological and genetic control of transpiration efficiency in African rice, <i>Oryza glaberrima</i> Steud. <i>Journal of Experimental Botany</i> , 2022, 73, 5279-5293.	4.8	12
3	Physiological adaptive traits are a potential allele reservoir for maize genetic progress under challenging conditions. <i>Nature Communications</i> , 2022, 13, .	12.8	19
4	Filling the gaps in gene banks: Collecting, characterizing, and phenotyping wild banana relatives of Papua New Guinea. <i>Crop Science</i> , 2021, 61, 137-149.	1.8	19
5	A systems genetics approach reveals environment-dependent associations between SNPs, protein coexpression, and drought-related traits in maize. <i>Genome Research</i> , 2020, 30, 1593-1604.	5.5	10
6	Maize adaptation across temperate climates was obtained via expression of two florigen genes. <i>PLoS Genetics</i> , 2020, 16, e1008882.	3.5	23
7	Simulating the effect of flowering time on maize individual leaf area in contrasting environmental scenarios. <i>Journal of Experimental Botany</i> , 2020, 71, 5577-5588.	4.8	6
8	Maize adaptation across temperate climates was obtained via expression of two florigen genes. , 2020, 16, e1008882.		0
9	Maize adaptation across temperate climates was obtained via expression of two florigen genes. , 2020, 16, e1008882.		0
10	Maize adaptation across temperate climates was obtained via expression of two florigen genes. , 2020, 16, e1008882.		0
11	Maize adaptation across temperate climates was obtained via expression of two florigen genes. , 2020, 16, e1008882.		0
12	What is cost-efficient phenotyping? Optimizing costs for different scenarios. <i>Plant Science</i> , 2019, 282, 14-22.	3.6	103
13	To clean or not to clean phenotypic datasets for outlier plants in genetic analyses?. <i>Journal of Experimental Botany</i> , 2019, 70, 3693-3698.	4.8	7
14	Genotyping-by-sequencing and SNP-arrays are complementary for detecting quantitative trait loci by tagging different haplotypes in association studies. <i>BMC Plant Biology</i> , 2019, 19, 318.	3.6	45
15	Genomic prediction of maize yield across European environmental conditions. <i>Nature Genetics</i> , 2019, 51, 952-956.	21.4	157
16	Changes in the vertical distribution of leaf area enhanced light interception efficiency in maize over generations of selection. <i>Plant, Cell and Environment</i> , 2019, 42, 2105-2119.	5.7	56
17	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
18	Phenomics allows identification of genomic regions affecting maize stomatal conductance with conditional effects of water deficit and evaporative demand. <i>Plant, Cell and Environment</i> , 2018, 41, 314-326.	5.7	77

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19	Maize yields over Europe may increase in spite of climate change, with an appropriate use of the genetic variability of flowering time. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10642-10647.	7.1	94
20	A robot-assisted imaging pipeline for tracking the growths of maize ear and silks in a high-throughput phenotyping platform. <i>Plant Methods</i> , 2017, 13, 96.	4.3	74
21	High-throughput estimation of incident light, light interception and radiation-use efficiency of thousands of plants in a phenotyping platform. <i>New Phytologist</i> , 2016, 212, 269-281.	7.3	182
22	Genome-wide analysis of yield in Europe: allelic effects as functions of drought and heat scenarios. <i>Plant Physiology</i> , 2016, 172, pp.00621.2016.	4.8	140
23	The growth of vegetative and reproductive structures (leaves and silks) respond similarly to hydraulic cues in maize. <i>New Phytologist</i> , 2016, 212, 377-388.	7.3	56
24	Identification of adaptation traits to drought in collections of maize landraces from southern Europe and temperate regions. <i>Euphytica</i> , 2016, 209, 565-584.	1.2	19
25	Genetic and Physiological Controls of Growth under Water Deficit. <i>Plant Physiology</i> , 2014, 164, 1628-1635.	4.8	141
26	A Common Genetic Determinism for Sensitivities to Soil Water Deficit and Evaporative Demand: Meta-Analysis of Quantitative Trait Loci and Introgression Lines of Maize. <i>Plant Physiology</i> , 2011, 157, 718-729.	4.8	71
27	Modelling the effects of genes and QTLs on the plant sensitivity to environmental conditions. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2009, 153, S220.	1.8	0
28	Simulating the Yield Impacts of Organ-Level Quantitative Trait Loci Associated With Drought Response in Maize: A "Gene-to-Phenotype" Modeling Approach. <i>Genetics</i> , 2009, 183, 1507-1523.	2.9	210
29	Leaf growth rate per unit thermal time follows QTL-dependent daily patterns in hundreds of maize lines under naturally fluctuating conditions. <i>Plant, Cell and Environment</i> , 2007, 30, 135-146.	5.7	138
30	Aluminium-induced callose formation in root apices: inheritance and selection trait for adaptation of tropical maize to acid soils. <i>Field Crops Research</i> , 2005, 93, 252-263.	5.1	44