

Felix B Fritschi

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

2,897
citations

236925

25
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206112

48
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84
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84
docs citations

84
times ranked

2884
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Warming, Climate Change, and Environmental Pollution: Recipe for a Multifactorial Stress Combination Disaster. <i>Trends in Plant Science</i> , 2021, 26, 588-599.	8.8	437
2	Meta-analysis of drought and heat stress combination impact on crop yield and yield components. <i>Physiologia Plantarum</i> , 2021, 171, 66-76.	5.2	188
3	Jasmonic Acid Is Required for Plant Acclimation to a Combination of High Light and Heat Stress. <i>Plant Physiology</i> , 2019, 181, 1668-1682.	4.8	174
4	The impact of multifactorial stress combination on plant growth and survival. <i>New Phytologist</i> , 2021, 230, 1034-1048.	7.3	149
5	Genomic mechanisms of climate adaptation in polyploid bioenergy switchgrass. <i>Nature</i> , 2021, 590, 438-444.	27.8	144
6	Signal transduction networks during stress combination. <i>Journal of Experimental Botany</i> , 2020, 71, 1734-1741.	4.8	111
7	Vinobot and Vinocular: Two Robotic Platforms for High-Throughput Field Phenotyping. <i>Sensors</i> , 2017, 17, 214.	3.8	103
8	Genome-wide association study (GWAS) of carbon isotope ratio ($\delta^{13}C$) in diverse soybean [<i>Glycine max</i> (L.) Merr.] genotypes. <i>Theoretical and Applied Genetics</i> , 2015, 128, 73-91.	3.6	89
9	QTL \times environment interactions underlie adaptive divergence in switchgrass across a large latitudinal gradient. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12933-12941.	7.1	75
10	RhizoVision Crown: An Integrated Hardware and Software Platform for Root Crown Phenotyping. <i>Plant Phenomics</i> , 2020, 2020, 3074916.	5.9	74
11	Genome-Wide Association Mapping of Carbon Isotope and Oxygen Isotope Ratios in Diverse Soybean Genotypes. <i>Crop Science</i> , 2017, 57, 3085-3100.	1.8	63
12	Soybean Maturity Group Choices for Early and Late Plantings in the Midsouth. <i>Agronomy Journal</i> , 2014, 106, 1893-1901.	1.8	59
13	Expression of Root-Related Transcription Factors Associated with Flooding Tolerance of Soybean (<i>Glycine max</i>). <i>International Journal of Molecular Sciences</i> , 2014, 15, 17622-17643.	4.1	55
14	Temporal dynamics of post-silking nitrogen fluxes and their effects on grain yield in maize under low to high nitrogen inputs. <i>Field Crops Research</i> , 2017, 204, 249-259.	5.1	55
15	The impact of water deficit and heat stress combination on the molecular response, physiology, and seed production of soybean. <i>Physiologia Plantarum</i> , 2021, 172, 41-52.	5.2	52
16	The impact of stress combination on reproductive processes in crops. <i>Plant Science</i> , 2021, 311, 111007.	3.6	51
17	Post-silking carbon partitioning under nitrogen deficiency revealed sink limitation of grain yield in maize. <i>Journal of Experimental Botany</i> , 2018, 69, 1707-1719.	4.8	48
18	Genome-wide association mapping of soybean chlorophyll traits based on canopy spectral reflectance and leaf extracts. <i>BMC Plant Biology</i> , 2016, 16, 174.	3.6	40

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19	Genome-Wide Association Study of Ureide Concentration in Diverse Maturity Group IV Soybean [<i>Glycine max</i> (L.) Merr.] Accessions. <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 2391-2403.	1.8	38
20	Differential regulation of flower transpiration during abiotic stress in annual plants. <i>New Phytologist</i> , 2022, 235, 611-629.	7.3	38
21	Diurnal dynamics of maize leaf photosynthesis and carbohydrate concentrations in response to differential N availability. <i>Environmental and Experimental Botany</i> , 2014, 99, 18-27.	4.2	36
22	Yield Response to Planting Date Among Soybean Maturity Groups for Irrigated Production in the US Midsouth. <i>Crop Science</i> , 2016, 56, 747-759.	1.8	35
23	Reproductive success of soybean (<i>Glycine max</i> L. Merrill) cultivars and exotic lines under high daytime temperature. <i>Plant, Cell and Environment</i> , 2019, 42, 321-336.	5.7	33
24	Isolation and identification of an allelopathic phenylethylamine in rice. <i>Phytochemistry</i> , 2014, 108, 109-121.	2.9	31
25	Genome-Wide Association Analysis of Diverse Soybean Genotypes Reveals Novel Markers for Nitrogen Traits. <i>Plant Genome</i> , 2015, 8, eplantgenome2014.11.0086.	2.8	31
26	Overcoming small minirhizotron datasets using transfer learning. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105466.	7.7	30
27	Rotation and tillage affect soybean grain composition, yield, and nutrient removal. <i>Field Crops Research</i> , 2014, 164, 12-21.	5.1	27
28	LabelStoma: A tool for stomata detection based on the YOLO algorithm. <i>Computers and Electronics in Agriculture</i> , 2020, 178, 105751.	7.7	27
29	A multiple ion-uptake phenotyping platform reveals shared mechanisms affecting nutrient uptake by roots. <i>Plant Physiology</i> , 2021, 185, 781-795.	4.8	27
30	Quantification of leaf pigments in soybean (<i>Glycine max</i> (L.) Merr.) based on wavelet decomposition of hyperspectral features. <i>Field Crops Research</i> , 2013, 149, 20-32.	5.1	26
31	Sweet sorghum ethanol yield component response to nitrogen fertilization. <i>Industrial Crops and Products</i> , 2016, 84, 43-49.	5.2	25
32	Fate of Nitrogen-15 Applied to Irrigated Acala and Pima Cotton. <i>Agronomy Journal</i> , 2004, 96, 646-655.	1.8	24
33	Maize, sweet sorghum, and high biomass sorghum ethanol yield comparison on marginal soils in Midwest USA. <i>Biomass and Bioenergy</i> , 2017, 107, 164-171.	5.7	24
34	Evaluation of Sweet Sorghum Bagasse as an Alternative Livestock Feed. <i>Crop Science</i> , 2013, 53, 1784-1790.	1.8	23
35	Assessment of growth, leaf N concentration and chlorophyll content of sweet sorghum using canopy reflectance. <i>Field Crops Research</i> , 2017, 209, 47-57.	5.1	23
36	Identification of Genomic Loci Associated with the Photochemical Reflectance Index by Genome-Wide Association Study in Soybean. <i>Plant Genome</i> , 2016, 9, plantgenome2015.08.0072.	2.8	22

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37	Carbohydrate Dynamics in Maize Leaves and Developing Ears in Response to Nitrogen Application. <i>Agronomy</i> , 2018, 8, 302.	3.0	21
38	Effects of elevated [CO ₂] on photosynthesis and seed yield parameters in two soybean genotypes with contrasting water use efficiency. <i>Environmental and Experimental Botany</i> , 2020, 178, 104154.	4.2	21
39	Association Mapping of Total Carotenoids in Diverse Soybean Genotypes Based on Leaf Extracts and High-Throughput Canopy Spectral Reflectance Measurements. <i>PLoS ONE</i> , 2015, 10, e0137213.	2.5	20
40	Nitrogen Use Efficiency and Yield Response of High Biomass Sorghum in the Lower Midwest. <i>Agronomy Journal</i> , 2017, 109, 115-121.	1.8	20
41	Apoplastic infusion of sucrose into stem internodes during female flowering does not increase grain yield in maize plants grown under nitrogen-limiting conditions. <i>Physiologia Plantarum</i> , 2013, 148, 470-480.	5.2	19
42	Identification of genomic loci associated with 21chlorophyll fluorescence phenotypes by genome-wide association analysis in soybean. <i>BMC Plant Biology</i> , 2018, 18, 312.	3.6	19
43	Geographic variation in the genetic basis of resistance to leaf rust between locally adapted ecotypes of the biofuel crop switchgrass (<i>Panicum virgatum</i>). <i>New Phytologist</i> , 2020, 227, 1696-1708.	7.3	19
44	Identification of Novel Genomic Loci Associated with Soybean Shoot Tissue Macro and Micronutrient Concentrations. <i>Plant Genome</i> , 2018, 11, 170066.	2.8	17
45	Carbon Isotope Ratio Fractionation among Plant Tissues of Soybean. <i>The Plant Phenome Journal</i> , 2018, 1, 1-6.	2.0	16
46	Root identification in minirhizotron imagery with multiple instance learning. <i>Machine Vision and Applications</i> , 2020, 31, 1.	2.7	16
47	Pre- and Post-silking Carbohydrate Concentrations in Maize Ear-leaves and Developing Ears in Response to Nitrogen Availability. <i>Crop Science</i> , 2016, 56, 3218-3227.	1.8	15
48	Influence of Midsummer Planting Dates on Ethanol Production Potential of Sweet Sorghum. <i>Agronomy Journal</i> , 2013, 105, 1761-1768.	1.8	13
49	Long term tillage treatment effects on corn grain nutrient composition and yield. <i>Field Crops Research</i> , 2016, 191, 33-40.	5.1	13
50	Genome-Wide Association Mapping of Dark Green Color Index using a Diverse Panel of Soybean Accessions. <i>Scientific Reports</i> , 2020, 10, 5166.	3.3	13
51	Influence of artificially restricted rooting depth on soybean yield and seed quality. <i>Agricultural Water Management</i> , 2012, 105, 38-47.	5.6	12
52	Using Carbon Isotope Discrimination to Assess Genotypic Differences in Drought Resistance of Parental Lines of Common Bean. <i>Crop Science</i> , 2019, 59, 2153-2166.	1.8	12
53	The genetic basis of the root economics spectrum in a perennial grass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	11
54	Influence of late planting on light interception, radiation use efficiency and biomass production of four sweet sorghum cultivars. <i>Industrial Crops and Products</i> , 2015, 76, 62-68.	5.2	10

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55	Nitrogen Content and Use Efficiency of Sweet Sorghum Grown in the Lower Midwest. <i>Agronomy Journal</i> , 2019, 111, 2920-2928.	1.8	10
56	Identification and Confirmation of Loci Associated With Canopy Wilting in Soybean Using Genome-Wide Association Mapping. <i>Frontiers in Plant Science</i> , 2021, 12, 698116.	3.6	9
57	Identification of quantitative trait loci for carbon isotope ratio ($\delta^{13}C$) in a recombinant inbred population of soybean. <i>Theoretical and Applied Genetics</i> , 2020, 133, 2141-2155.	3.6	8
58	Coordinated Systemic Stomatal Responses in Soybean. <i>Plant Physiology</i> , 2020, 183, 1428-1431.	4.8	7
59	Genome-Wide Association Study of Topsoil Root System Architecture in Field-Grown Soybean [<i>Glycine max</i> (L.) Merr.]. <i>Frontiers in Plant Science</i> , 2020, 11, 590179.	3.6	7
60	Carbon accumulation in kernels of low-nitrogen maize is not limited by carbon availability but by an imbalance of carbon and nitrogen assimilates. <i>Journal of Plant Nutrition and Soil Science</i> , 2021, 184, 217-226.	1.9	7
61	Weakly Supervised Minirhizotron Image Segmentation with MIL-CAM. <i>Lecture Notes in Computer Science</i> , 2020, , 433-449.	1.3	7
62	Synthesis and plant growth inhibitory activity of <i>N-trans</i> -cinnamoyltyramine: its possible inhibition mechanisms and biosynthesis pathway. <i>Journal of Plant Interactions</i> , 2017, 12, 51-57.	2.1	6
63	Nitrogen fertilization of high biomass sorghum affects macro- and micronutrient accumulation and tissue concentrations. <i>Industrial Crops and Products</i> , 2020, 156, 112819.	5.2	6
64	QTL–environment interactions underlie ionome divergence in switchgrass. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	6
65	Distinct enhanced efficiency urea fertilizers differentially influence ammonia volatilization losses and maize yield. <i>Plant and Soil</i> , 2022, 475, 551-563.	3.7	6
66	Soil Carbon Changes Following Conversion to Annual Biofuel Feedstocks on Marginal Lands. <i>Agronomy Journal</i> , 2019, 111, 4-13.	1.8	5
67	A generalist–specialist trade-off between switchgrass cytotypes impacts climate adaptation and geographic range. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118879119.	7.1	5
68	Diversifying Soybean Production Risk Using Maturity Group and Planting Date Choices. <i>Agronomy Journal</i> , 2016, 108, 1917-1929.	1.8	4
69	Morphological Traits Underlying Differences in Early Vigor among Four Cotton Genotypes. <i>Crop Science</i> , 2019, 59, 1165-1181.	1.8	4
70	Mapping quantitative trait loci (QTL) for plant nitrogen isotope ratio ($\delta^{15}N$) in soybean. <i>Euphytica</i> , 2020, 216, 1.	1.2	4
71	Vinobot and vinoculer: from real to simulated platforms. , 2018, , .		3
72	Influence of manganese availability on switchgrass and pearl millet biomass production. <i>Crop Science</i> , 2021, 61, 643-656.	1.8	2

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73	The genetic basis for panicle trait variation in switchgrass (<i>Panicum virgatum</i>). <i>Theoretical and Applied Genetics</i> , 2022, 135, 2577-2592.	3.6	2
74	Modeling to Evaluate and Manage Water and Environmental Sustainability of Bioenergy Crops in the United States. <i>Advances in Agricultural Systems Modeling</i> , 2015, , 139-160.	0.3	1
75	Characterization of Seedling Traits Associated with Early Vigor in Diverse Cotton Genotypes. <i>Crop Science</i> , 2019, 59, 708-717.	1.8	1
76	Spatio-Temporal Reconstruction and Visualization of Plant Growth for Phenotyping. , 2021, , .		1