

Karine Chenu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1087883/publications.pdf>

Version: 2024-02-01

66
papers

5,597
citations

136740

32
h-index

128067

60
g-index

71
all docs

71
docs citations

71
times ranked

5328
citing authors

#	ARTICLE	IF	CITATIONS
1	The Concepts of Seed Germination Rate and Germinability: A Re-Evaluation for Cool-Season Grasses. <i>Agronomy</i> , 2022, 12, 1291.	1.3	2
2	Unsupervised Plot-Scale LAI Phenotyping via UAV-Based Imaging, Modelling, and Machine Learning. <i>Plant Phenomics</i> , 2022, 2022, .	2.5	11
3	Fusion of Sentinel-2 and PlanetScope time-series data into daily 3Åm surface reflectance and wheat LAI monitoring. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 96, 102260.	1.4	44
4	Limiting transpiration rate in high evaporative demand conditions to improve Australian wheat productivity. <i>In Silico Plants</i> , 2021, 3, .	0.8	19
5	Barley. , 2021, , 164-195.		6
6	Improving productivity of Australian wheat by adapting sowing date and genotype phenology to future climate. <i>Climate Risk Management</i> , 2021, 32, 100300.	1.6	32
7	Using Crop Modelling to Improve Chickpea Adaptation in Variable Environments. , 2021, , 231-254.		1
8	Evolution and application of digital technologies to predict crop type and crop phenology in agriculture. <i>In Silico Plants</i> , 2021, 3, .	0.8	27
9	How does post-flowering heat impact grain growth and its determining processes in wheat?. <i>Journal of Experimental Botany</i> , 2021, 72, 6596-6610.	2.4	14
10	Genotype-specific P-spline response surfaces assist interpretation of regional wheat adaptation to climate change. <i>In Silico Plants</i> , 2021, 3, .	0.8	8
11	QTL identified for stay-green in a multi-reference nested association mapping population of wheat exhibit context dependent expression and parent-specific alleles. <i>Field Crops Research</i> , 2021, 270, 108181.	2.3	16
12	Increasing Heat Tolerance in Wheat to Counteract Recent and Projected Increases in Heat Stress. <i>Proceedings (mdpi)</i> , 2020, 36, .	0.2	4
13	Combining Trait Physiology, Crop Modelling and Molecular Genetics to Improve Wheat Adaptation to Terminal Water-Stress Targeting Stay-Green and Root Traits. <i>Proceedings (mdpi)</i> , 2020, 36, .	0.2	0
14	Heat shocks increasingly impede grain filling but have little effect on grain setting across the Australian wheatbelt. <i>Agricultural and Forest Meteorology</i> , 2020, 284, 107889.	1.9	40
15	Variation in Australian durum wheat germplasm for productivity traits under irrigated and rainfed conditions: genotype performance for agronomic traits and benchmarking. <i>Journal of Agricultural Science</i> , 2020, 158, 479-495.	0.6	4
16	Early vigour in wheat: Could it lead to more severe terminal drought stress under elevated atmospheric [CO ₂] and semi-árid conditions?. <i>Global Change Biology</i> , 2020, 26, 4079-4093.	4.2	13
17	Sentinel-2 and Planetscope Data Fusion into Daily 3 M Images for Leaf Area Index Monitoring. , 2020, , .		1
18	Sowing date detection at the field scale using CubeSats remote sensing. <i>Computers and Electronics in Agriculture</i> , 2019, 157, 568-580.	3.7	39

#	ARTICLE	IF	CITATIONS
19	Risk assessment of frost damage to sugar beet simulated under cold and semi-arid environments. <i>International Journal of Biometeorology</i> , 2019, 63, 511-521.	1.3	19
20	Combining Crop Growth Modeling and Statistical Genetic Modeling to Evaluate Phenotyping Strategies. <i>Frontiers in Plant Science</i> , 2019, 10, 1491.	1.7	65
21	From QTLs to Adaptation Landscapes: Using Genotype-To-Phenotype Models to Characterize GÅ—E Over Time. <i>Frontiers in Plant Science</i> , 2019, 10, 1540.	1.7	33
22	Integrating Crop Modelling, Physiology, Genetics and Breeding to Aid Crop Improvement for Changing Environments in the Australian Wheatbelt. <i>Proceedings (mdpi)</i> , 2019, 36, 4.	0.2	0
23	Recent Trends in Drought, Heat and Frost-Induced Yield Losses Across the Australian Wheatbelt. <i>Proceedings (mdpi)</i> , 2019, 36, .	0.2	6
24	Integrating modelling and phenotyping approaches to identify and screen complex traits: transpiration efficiency in cereals. <i>Journal of Experimental Botany</i> , 2018, 69, 3181-3194.	2.4	76
25	Direct and Indirect Costs of Frost in the Australian Wheatbelt. <i>Ecological Economics</i> , 2018, 150, 122-136.	2.9	13
26	VERNALIZATION1 Modulates Root System Architecture in Wheat and Barley. <i>Molecular Plant</i> , 2018, 11, 226-229.	3.9	118
27	QTL for stay-green traits in wheat in well-watered and water-limited environments. <i>Field Crops Research</i> , 2018, 217, 32-44.	2.3	60
28	The Value of Tactical Adaptation to El NiÃ±oâ€™Southern Oscillation for East Australian Wheat. <i>Climate</i> , 2018, 6, 77.	1.2	21
29	A low-cost method to rapidly and accurately screen for transpiration efficiency in wheat. <i>Plant Methods</i> , 2018, 14, 77.	1.9	28
30	Selection in Early Generations to Shift Allele Frequency for Seminal Root Angle in Wheat. <i>Plant Genome</i> , 2018, 11, 170071.	1.6	23
31	Characterisation of chickpea cropping systems in Australia for major abiotic production constraints. <i>Field Crops Research</i> , 2017, 204, 120-134.	2.3	26
32	Contribution of Crop Models to Adaptation in Wheat. <i>Trends in Plant Science</i> , 2017, 22, 472-490.	4.3	201
33	Nitrogen nutrition index predicted by a crop model improves the genomic prediction of grain number for a bread wheat core collection. <i>Field Crops Research</i> , 2017, 214, 331-340.	2.3	34
34	Economic assessment of wheat breeding options for potential improved levels of post head-emergence frost tolerance. <i>Field Crops Research</i> , 2017, 213, 75-88.	2.3	11
35	Projected impact of future climate on water-stress patterns across the Australian wheatbelt. <i>Journal of Experimental Botany</i> , 2017, 68, 5907-5921.	2.4	49
36	Velocity of temperature and flowering time in wheat â€™ assisting breeders to keep pace with climate change. <i>Global Change Biology</i> , 2016, 22, 921-933.	4.2	53

#	ARTICLE	IF	CITATIONS
37	Patterns of water stress and temperature for Australian chickpea production. <i>Crop and Pasture Science</i> , 2016, 67, 204.	0.7	33
38	Stay-green traits to improve wheat adaptation in well-watered and water-limited environments. <i>Journal of Experimental Botany</i> , 2016, 67, 5159-5172.	2.4	170
39	Assessment of the Potential Impacts of Wheat Plant Traits across Environments by Combining Crop Modeling and Global Sensitivity Analysis. <i>PLoS ONE</i> , 2016, 11, e0146385.	1.1	86
40	Projected Impact of Future Climate on Drought Patterns in Complex Rainfed Environments. <i>Procedia Environmental Sciences</i> , 2015, 29, 190-191.	1.3	2
41	The shifting influence of drought and heat stress for crops in northeast Australia. <i>Global Change Biology</i> , 2015, 21, 4115-4127.	4.2	230
42	High-throughput Phenotyping of Wheat Seminal Root Traits in a Breeding Context. <i>Procedia Environmental Sciences</i> , 2015, 29, 102-103.	1.3	7
43	High-throughput phenotyping of seminal root traits in wheat. <i>Plant Methods</i> , 2015, 11, 13.	1.9	150
44	Frost trends and their estimated impact on yield in the Australian wheatbelt. <i>Journal of Experimental Botany</i> , 2015, 66, 3611-3623.	2.4	131
45	Model-assisted phenotyping and ideotype design. , 2015, , 349-373.		54
46	Characterizing the crop environment " nature, significance and applications. , 2015, , 321-348.		49
47	APSIM " Evolution towards a new generation of agricultural systems simulation. <i>Environmental Modelling and Software</i> , 2014, 62, 327-350.	1.9	1,173
48	Plot size matters: interference from intergenotypic competition in plant phenotyping studies. <i>Functional Plant Biology</i> , 2014, 41, 107.	1.1	86
49	Phenotyping novel stay-green traits to capture genetic variation in senescence dynamics. <i>Functional Plant Biology</i> , 2014, 41, 1035.	1.1	89
50	A multisite managed environment facility for targeted trait and germplasm phenotyping. <i>Functional Plant Biology</i> , 2013, 40, 1.	1.1	109
51	Large-scale characterization of drought pattern: a continent-wide modelling approach applied to the Australian wheatbelt " spatial and temporal trends. <i>New Phytologist</i> , 2013, 198, 801-820.	3.5	244
52	Water and thermal regimes for field pea in Australia and their implications for breeding. <i>Crop and Pasture Science</i> , 2012, 63, 33.	0.7	54
53	Breeding for the future: what are the potential impacts of future frost and heat events on sowing and flowering time requirements for Australian bread wheat (<i>Triticum</i>)	1.0	140
54	Environment characterization as an aid to wheat improvement: interpreting genotype-environment interactions by modelling water-deficit patterns in North-Eastern Australia. <i>Journal of Experimental Botany</i> , 2011, 62, 1743-1755.	2.4	256

#	ARTICLE	IF	CITATIONS
55	Detection and use of QTL for complex traits in multiple environments. <i>Current Opinion in Plant Biology</i> , 2010, 13, 193-205.	3.5	146
56	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.	1.2	210
57	Short-term responses of leaf growth rate to water deficit scale up to whole plant and crop levels: an integrated modelling approach in maize. <i>Plant, Cell and Environment</i> , 2008, 31, 378-391.	2.8	122
58	Estimation of light interception in research environments: a joint approach using directional light sensors and 3D virtual plants applied to sunflower (<i>Helianthus annuus</i>) and <i>Arabidopsis thaliana</i> in natural and artificial conditions. <i>Functional Plant Biology</i> , 2008, 35, 850.	1.1	19
59	Relative contributions of light interception and radiation use efficiency to the reduction of maize productivity under cold temperatures. <i>Functional Plant Biology</i> , 2008, 35, 885.	1.1	28
60	Using a 3-D Virtual Sunflower to Simulate Light Capture at Organ, Plant and Plot Levels: Contribution of Organ Interception, Impact of Heliotropism and Analysis of Genotypic Differences. <i>Annals of Botany</i> , 2007, 101, 1139-1151.	1.4	38
61	Day Length Affects the Dynamics of Leaf Expansion and Cellular Development in <i>Arabidopsis thaliana</i> Partially through Floral Transition Timing. <i>Annals of Botany</i> , 2007, 99, 703-711.	1.4	60
62	Simulations of virtual plants reveal a role for SERRATE in the response of leaf development to light in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2007, 175, 472-481.	3.5	17
63	PHENOPSIS, an automated platform for reproducible phenotyping of plant responses to soil water deficit in <i>Arabidopsis thaliana</i> permitted the identification of an accession with low sensitivity to soil water deficit. <i>New Phytologist</i> , 2006, 169, 623-635.	3.5	512
64	Integrated responses of rosette organogenesis, morphogenesis and architecture to reduced incident light in <i>Arabidopsis thaliana</i> results in higher efficiency of light interception. <i>Functional Plant Biology</i> , 2005, 32, 1123.	1.1	48
65	Individual Leaf Development in <i>Arabidopsis thaliana</i> : a Stable Thermal-time-based Programme. <i>Annals of Botany</i> , 2002, 89, 595-604.	1.4	106
66	Editorial: Enviromics in Plant Breeding. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	5