

# David Jordan

## List of Publications by Year in descending order

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121  
papers

7,263  
citations

50244

46  
h-index

69214

77  
g-index

128  
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128  
docs citations

128  
times ranked

6034  
citing authors

#	ARTICLE	IF	CITATIONS
1	Whole-genome sequencing reveals untapped genetic potential in Africa's indigenous cereal crop sorghum. <i>Nature Communications</i> , 2013, 4, 2320.	5.8	405
2	Sorghum stay-green QTL individually reduce post-flowering drought-induced leaf senescence. <i>Journal of Experimental Botany</i> , 2006, 58, 327-338.	2.4	286
3	Drought adaptation of stay-green sorghum is associated with canopy development, leaf anatomy, root growth, and water uptake. <i>Journal of Experimental Botany</i> , 2014, 65, 6251-6263.	2.4	264
4	QTL for nodal root angle in sorghum ( <i>Sorghum bicolor</i> L. Moench) co-locate with QTL for traits associated with drought adaptation. <i>Theoretical and Applied Genetics</i> , 2012, 124, 97-109.	1.8	226
5	A consensus genetic map of sorghum that integrates multiple component maps and high-throughput Diversity Array Technology (DArT) markers. <i>BMC Plant Biology</i> , 2009, 9, 13.	1.6	172
6	Exploring and Exploiting Pan-genomics for Crop Improvement. <i>Molecular Plant</i> , 2019, 12, 156-169.	3.9	172
7	Identification of genomic regions associated with stay green in sorghum by testing RILs in multiple environments. <i>Theoretical and Applied Genetics</i> , 2000, 100, 1225-1232.	1.8	166
8	Stay-green alleles individually enhance grain yield in sorghum under drought by modifying canopy development and water uptake patterns. <i>New Phytologist</i> , 2014, 203, 817-830.	3.5	163
9	QTL for root angle and number in a population developed from bread wheats ( <i>Triticum aestivum</i> ) with contrasting adaptation to water-limited environments. <i>Theoretical and Applied Genetics</i> , 2013, 126, 1563-1574.	1.8	160
10	Crop design for specific adaptation in variable dryland production environments. <i>Crop and Pasture Science</i> , 2014, 65, 614.	0.7	152
11	Morphological and architectural development of root systems in sorghum and maize. <i>Plant and Soil</i> , 2010, 333, 287-299.	1.8	148
12	The Relationship Between the Stay-green Trait and Grain Yield in Elite Sorghum Hybrids Grown in a Range of Environments. <i>Crop Science</i> , 2012, 52, 1153-1161.	0.8	148
13	Identification of QTL for sugar-related traits in a sweet-grain sorghum ( <i>Sorghum bicolor</i> L. Moench) recombinant inbred population. <i>Molecular Breeding</i> , 2008, 22, 367-384.	1.0	138
14	DArT markers: diversity analyses and mapping in <i>Sorghum bicolor</i> . <i>BMC Genomics</i> , 2008, 9, 26.	1.2	131
15	Integrating sorghum whole genome sequence information with a compendium of sorghum QTL studies reveals uneven distribution of QTL and of gene-rich regions with significant implications for crop improvement. <i>Theoretical and Applied Genetics</i> , 2011, 123, 169-191.	1.8	131
16	Multi-Spectral Imaging from an Unmanned Aerial Vehicle Enables the Assessment of Seasonal Leaf Area Dynamics of Sorghum Breeding Lines. <i>Frontiers in Plant Science</i> , 2017, 8, 1532.	1.7	129
17	Estimation of plant height using a high throughput phenotyping platform based on unmanned aerial vehicle and self-calibration: Example for sorghum breeding. <i>European Journal of Agronomy</i> , 2018, 95, 24-32.	1.9	122
18	VERNALIZATION1 Modulates Root System Architecture in Wheat and Barley. <i>Molecular Plant</i> , 2018, 11, 226-229.	3.9	118

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19	The Sorghum QTL Atlas: a powerful tool for trait dissection, comparative genomics and crop improvement. <i>Theoretical and Applied Genetics</i> , 2019, 132, 751-766.	1.8	114
20	A Weakly Supervised Deep Learning Framework for Sorghum Head Detection and Counting. <i>Plant Phenomics</i> , 2019, 2019, 1525874.	2.5	114
21	Prediction of hybrid performance in grain sorghum using RFLP markers. <i>Theoretical and Applied Genetics</i> , 2003, 106, 559-567.	1.8	109
22	Location of major effect genes in sorghum ( <i>Sorghum bicolor</i> (L.) Moench). <i>Theoretical and Applied Genetics</i> , 2010, 121, 1339-1356.	1.8	109
23	Exploring and Exploiting Genetic Variation from Unadapted Sorghum Germplasm in a Breeding Program. <i>Crop Science</i> , 2011, 51, 1444-1457.	0.8	96
24	Extensive variation within the pan-genome of cultivated and wild sorghum. <i>Nature Plants</i> , 2021, 7, 766-773.	4.7	94
25	Modelling spatial trends in sorghum breeding field trials using a two-dimensional P-spline mixed model. <i>Theoretical and Applied Genetics</i> , 2017, 130, 1375-1392.	1.8	92
26	The Effect of Tropical Sorghum Conversion and Inbred Development on Genome Diversity as Revealed by High-Resolution Genotyping. <i>Crop Science</i> , 2008, 48, S-12.	0.8	90
27	A domestication history of dynamic adaptation and genomic deterioration in Sorghum. <i>Nature Plants</i> , 2019, 5, 369-379.	4.7	84
28	An assessment of the genetic relationship between sweet and grain sorghums, within <i>Sorghum bicolor</i> ssp. <i>bicolor</i> (L.) Moench, using AFLP markers. <i>Euphytica</i> , 2007, 157, 161-176.	0.6	83
29	Sorghum genotypes differ in high temperature responses for seed set. <i>Field Crops Research</i> , 2015, 171, 32-40.	2.3	83
30	Molecular mapping and candidate gene identification of the Rf2 gene for pollen fertility restoration in sorghum [ <i>Sorghum bicolor</i> (L.) Moench]. <i>Theoretical and Applied Genetics</i> , 2010, 120, 1279-1287.	1.8	80
31	Designing crops for adaptation to the drought and high-temperature risks anticipated in future climates. <i>Crop Science</i> , 2020, 60, 605-621.	0.8	80
32	Recent emergence of the wheat Lr34 multi-pathogen resistance: insights from haplotype analysis in wheat, rice, sorghum and <i>Aegilops tauschii</i> . <i>Theoretical and Applied Genetics</i> , 2013, 126, 663-672.	1.8	79
33	Supermodels: sorghum and maize provide mutual insight into the genetics of flowering time. <i>Theoretical and Applied Genetics</i> , 2013, 126, 1377-1395.	1.8	77
34	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
35	Aerial Imagery Analysis – Quantifying Appearance and Number of Sorghum Heads for Applications in Breeding and Agronomy. <i>Frontiers in Plant Science</i> , 2018, 9, 1544.	1.7	74
36	Genetic Variability and Control of Nodal Root Angle in Sorghum. <i>Crop Science</i> , 2011, 51, 2011-2020.	0.8	73

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37	Large-scale GWAS in sorghum reveals common genetic control of grain size among cereals. <i>Plant Biotechnology Journal</i> , 2020, 18, 1093-1105.	4.1	72
38	Characterization of Linkage Disequilibrium and Population Structure in a Mungbean Diversity Panel. <i>Frontiers in Plant Science</i> , 2017, 8, 2102.	1.7	71
39	Identifications of two different mechanisms for sorghum midge resistance through QTL mapping. <i>Theoretical and Applied Genetics</i> , 2003, 107, 116-122.	1.8	67
40	Resistance gene analogues in sugarcane and sorghum and their association with quantitative trait loci for rust resistance. <i>Genome</i> , 2005, 48, 391-400.	0.9	66
41	Pre-anthesis ovary development determines genotypic differences in potential kernel weight in sorghum. <i>Journal of Experimental Botany</i> , 2009, 60, 1399-1408.	2.4	65
42	Genetic control of nodal root angle in sorghum and its implications on water extraction. <i>European Journal of Agronomy</i> , 2012, 42, 3-10.	1.9	64
43	Whole-Genome Analysis of Candidate genes Associated with Seed Size and Weight in Sorghum bicolor Reveals Signatures of Artificial Selection and Insights into Parallel Domestication in Cereal Crops. <i>Frontiers in Plant Science</i> , 2017, 8, 1237.	1.7	59
44	Mapping and characterization of Rf 5 : a new gene conditioning pollen fertility restoration in A1 and A2 cytoplasm in sorghum ( <i>Sorghum bicolor</i> (L.) Moench). <i>Theoretical and Applied Genetics</i> , 2011, 123, 383-396.	1.8	56
45	Development of a phenotyping platform for high throughput screening of nodal root angle in sorghum. <i>Plant Methods</i> , 2017, 13, 56.	1.9	56
46	Genetic variability in high temperature effects on seed-set in sorghum. <i>Functional Plant Biology</i> , 2013, 40, 439.	1.1	54
47	A physiological framework to explain genetic and environmental regulation of tillering in sorghum. <i>New Phytologist</i> , 2014, 203, 155-167.	3.5	53
48	The plasticity of NBS resistance genes in sorghum is driven by multiple evolutionary processes. <i>BMC Plant Biology</i> , 2014, 14, 253.	1.6	49
49	Genomic Prediction of Grain Yield and Drought-Adaptation Capacity in Sorghum Is Enhanced by Multi-Trait Analysis. <i>Frontiers in Plant Science</i> , 2019, 10, 997.	1.7	48
50	QTL analysis of ergot resistance in sorghum. <i>Theoretical and Applied Genetics</i> , 2008, 117, 369-382.	1.8	46
51	Molecular characterization of the waxy locus in sorghum. <i>Genome</i> , 2008, 51, 524-533.	0.9	46
52	SorGSD: a sorghum genome SNP database. <i>Biotechnology for Biofuels</i> , 2016, 9, 6.	6.2	44
53	Title is missing!. <i>Euphytica</i> , 1998, 102, 1-7.	0.6	43
54	QTL analysis in multiple sorghum populations facilitates the dissection of the genetic and physiological control of tillering. <i>Theoretical and Applied Genetics</i> , 2014, 127, 2253-2266.	1.8	43

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55	Construction of a genetic map in a sorghum recombinant inbred line using probes from different sources and its comparison with other sorghum maps. <i>Australian Journal of Agricultural Research</i> , 1998, 49, 729.	1.5	43
56	Allelic variation at a single gene increases food value in a drought-tolerant staple cereal. <i>Nature Communications</i> , 2013, 4, 1483.	5.8	41
57	Fine mapping of qCW1, a major QTL for grain weight in sorghum. <i>Theoretical and Applied Genetics</i> , 2015, 128, 1813-1825.	1.8	40
58	Identification of genomic regions for rust resistance in sorghum. <i>Euphytica</i> , 1998, 103, 287-292.	0.6	39
59	Allelic variation of the $\hat{I}^2$ -, $\hat{I}^3$ - and $\hat{I}^1$ -kafirin genes in diverse Sorghum genotypes. <i>Theoretical and Applied Genetics</i> , 2010, 121, 1227-1237.	1.8	39
60	Whole Genome Sequencing Reveals Potential New Targets for Improving Nitrogen Uptake and Utilization in Sorghum bicolor. <i>Frontiers in Plant Science</i> , 2016, 7, 1544.	1.7	39
61	Decrease in sorghum grain yield due to the dw3 dwarfing gene is caused by reduction in shoot biomass. <i>Field Crops Research</i> , 2011, 124, 231-239.	2.3	38
62	Domestication and the storage starch biosynthesis pathway: signatures of selection from a whole sorghum genome sequencing strategy. <i>Plant Biotechnology Journal</i> , 2016, 14, 2240-2253.	4.1	38
63	Yield trends under varying environmental conditions for sorghum and wheat across Australia. <i>Agricultural and Forest Meteorology</i> , 2016, 228-229, 276-285.	1.9	38
64	Molecular Breeding for Complex Adaptive Traits: How Integrating Crop Ecophysiology and Modelling Can Enhance Efficiency. , 2016, , 147-162.		38
65	Markers associated with stalk number and suckering in sugarcane colocate with tillering and rhizomatousness QTLs in sorghum. <i>Genome</i> , 2004, 47, 988-993.	0.9	37
66	Association mapping of resistance to Puccinia hordei in Australian barley breeding germplasm. <i>Theoretical and Applied Genetics</i> , 2014, 127, 1199-1212.	1.8	37
67	Suppression of populations of Australian sheep blowfly, <i>Lucilia cuprina</i> (Wiedemann) (Diptera): Tj ETQq1 1 0.784314 rgBT /Ov	1.1	33
68	Development of Genomic Prediction in Sorghum. <i>Crop Science</i> , 2018, 58, 690-700.	0.8	31
69	Combining pedigree and genomic information to improve prediction quality: an example in sorghum. <i>Theoretical and Applied Genetics</i> , 2019, 132, 2055-2067.	1.8	30
70	Sorghum dwarfing genes can affect radiation capture and radiation use efficiency. <i>Field Crops Research</i> , 2013, 149, 283-290.	2.3	28
71	Heterosis in locally adapted sorghum genotypes and potential of hybrids for increased productivity in contrasting environments in Ethiopia. <i>Crop Journal</i> , 2016, 4, 479-489.	2.3	26
72	Novel Grain Weight Loci Revealed in a Cross between Cultivated and Wild Sorghum. <i>Plant Genome</i> , 2018, 11, 170089.	1.6	26

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73	From bits to bites: Advancement of the Germinate platform to support prebreeding informatics for crop wild relatives. <i>Crop Science</i> , 2021, 61, 1538-1566.	0.8	26
74	Genetic Variation in Potential Kernel Size Affects Kernel Growth and Yield of Sorghum. <i>Crop Science</i> , 2010, 50, 685-695.	0.8	25
75	Spot form of net blotch resistance in barley is under complex genetic control. <i>Theoretical and Applied Genetics</i> , 2015, 128, 489-499.	1.8	24
76	Two distinct classes of QTL determine rust resistance in sorghum. <i>BMC Plant Biology</i> , 2014, 14, 366.	1.6	23
77	Genetic diversity of Ethiopian sorghum reveals signatures of climatic adaptation. <i>Theoretical and Applied Genetics</i> , 2021, 134, 731-742.	1.8	23
78	Genetic erosion and changes in distribution of sorghum ( <i>Sorghum bicolor</i> L. (Moench)) landraces in north-eastern Ethiopia. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2008, 6, 1-10.	0.4	22
79	Comparison of identity by descent and identity by state for detecting genetic regions under selection in a sorghum pedigree breeding program. <i>Molecular Breeding</i> , 2005, 14, 441-454.	1.0	21
80	Post-anthesis nitrate uptake is critical to yield and grain protein content in <i>Sorghum bicolor</i> . <i>Journal of Plant Physiology</i> , 2017, 216, 118-124.	1.6	20
81	High-Throughput Phenotyping of Dynamic Canopy Traits Associated with Stay-Green in Grain Sorghum. <i>Plant Phenomics</i> , 2020, 2020, 4635153.	2.5	19
82	Applications of pedigree-based genome mapping in wheat and barley breeding programs. <i>Euphytica</i> , 2007, 154, 307-316.	0.6	18
83	Characterisation of grain quality in diverse sorghum germplasm using a Rapid Visco-Analyzer and near infrared reflectance spectroscopy. <i>Journal of the Science of Food and Agriculture</i> , 2012, 92, 1402-1410.	1.7	16
84	How accurate are the marker orders in crop linkage maps generated from large marker datasets?. <i>Crop and Pasture Science</i> , 2009, 60, 362.	0.7	16
85	Genetic Components of Variance and the Role of Pollen Traits in Sorghum Ergot Resistance. <i>Crop Science</i> , 2006, 46, 2387-2395.	0.8	15
86	Coordination of stomata and vein patterns with leaf width underpins water-use efficiency in a C <sub>4</sub> crop. <i>Plant, Cell and Environment</i> , 2022, 45, 1612-1630.	2.8	15
87	Genetic differentiation analysis for the identification of complementary parental pools for sorghum hybrid breeding in Ethiopia. <i>Theoretical and Applied Genetics</i> , 2015, 128, 1765-1775.	1.8	14
88	Predicting Tillering of Diverse Sorghum Germplasm across Environments. <i>Crop Science</i> , 2017, 57, 78-87.	0.8	14
89	Large-scale genome-wide association study reveals that drought-induced lodging in grain sorghum is associated with plant height and traits linked to carbon remobilisation. <i>Theoretical and Applied Genetics</i> , 2020, 133, 3201-3215.	1.8	14
90	Multi-environment analysis of sorghum breeding trials using additive and dominance genomic relationships. <i>Theoretical and Applied Genetics</i> , 2020, 133, 1009-1018.	1.8	13

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91	Predicting Additive and Non-additive Genetic Effects from Trials Where Traits Are Affected by Interplot Competition. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2013, 18, 53-63.	0.7	12
92	Differences in temperature response of phenological development among diverse Ethiopian sorghum genotypes are linked to racial grouping and agroecological adaptation. <i>Crop Science</i> , 2020, 60, 977-990.	0.8	12
93	Enhancement of sorghum grain yield and nutrition: A role for arbuscular mycorrhizal fungi regardless of soil phosphorus availability. <i>Plants People Planet</i> , 2022, 4, 143-156.	1.6	12
94	A global resource for exploring and exploiting genetic variation in sorghum crop wild relatives. <i>Crop Science</i> , 2021, 61, 150-162.	0.8	11
95	Determining Crop Growth Dynamics in Sorghum Breeding Trials Through Remote and Proximal Sensing Technologies. , 2018, , .		10
96	A Graph-Based Pan-Genome Guides Biological Discovery. <i>Molecular Plant</i> , 2020, 13, 1247-1249.	3.9	10
97	The Impacts of Flowering Time and Tillering on Grain Yield of Sorghum Hybrids across Diverse Environments. <i>Agronomy</i> , 2020, 10, 135.	1.3	10
98	Status of Sorghum and Pearl Millet Diseases in Australia. , 0, , 441-448.		10
99	Detecting Sorghum Plant and Head Features from Multispectral UAV Imagery. <i>Plant Phenomics</i> , 2021, 2021, 9874650.	2.5	10
100	Genetic control of leaf angle in sorghum and its effect on light interception. <i>Journal of Experimental Botany</i> , 2022, 73, 801-816.	2.4	10
101	Crop Genomics Goes Beyond a Single Reference Genome. <i>Trends in Plant Science</i> , 2019, 24, 1072-1074.	4.3	9
102	Manipulating assimilate availability provides insight into the genes controlling grain size in sorghum. <i>Plant Journal</i> , 2021, 108, 231-243.	2.8	9
103	Quantitative Trait Loci of Plant Attributes Related to Sorghum Grain Number Determination. <i>Crop Science</i> , 2016, 56, 3046-3054.	0.8	7
104	Investigating successive Australian barley breeding populations for stable resistance to leaf rust. <i>Theoretical and Applied Genetics</i> , 2017, 130, 2463-2477.	1.8	7
105	Perspectives on Applications of Hierarchical Gene-To-Phenotype (G2P) Maps to Capture Non-stationary Effects of Alleles in Genomic Prediction. <i>Frontiers in Plant Science</i> , 2021, 12, 663565.	1.7	7
106	Estimating Photosynthetic Attributes from High-Throughput Canopy Hyperspectral Sensing in Sorghum. <i>Plant Phenomics</i> , 2022, 2022, 9768502.	2.5	7
107	Genetic Diversity of C4 Photosynthesis Pathway Genes in <i>Sorghum bicolor</i> (L.). <i>Genes</i> , 2020, 11, 806.	1.0	6
108	Non-cellulosic cell wall polysaccharides are subject to genotype×environment effects in sorghum ( <i>Sorghum bicolor</i> ) grain. <i>Journal of Cereal Science</i> , 2015, 63, 64-71.	1.8	5

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109	Fine Mapping of qDor7, a Major QTL Affecting Seed Dormancy in Sorghum ( <i>Sorghum bicolor</i> (L.) Tj ETQq1 1 0.784314 rgBT /Overloc	1.0	4
110	Evaluation of variation in Ethiopian sorghum injera quality with new imaging techniques. <i>Cereal Chemistry</i> , 2020, 97, 362-372.	1.1	4
111	Grain Sorghum. , 2009, , 183-197.		4
112	Genetic Manipulation of Root System Architecture to Improve Drought Adaptation in Sorghum. <i>Compendium of Plant Genomes</i> , 2016, , 207-226.	0.3	3
113	The vegetative nitrogen response of sorghum lines containing different alleles for nitrate reductase and glutamate synthase. <i>Molecular Breeding</i> , 2017, 37, 1.	1.0	3
114	Genomic prediction for broad and specific adaptation in sorghum accommodating differential variances of SNP effects. <i>Crop Science</i> , 2020, 60, 2328-2342.	0.8	3
115	Use of optical density as a measure of <i>Claviceps africana</i> conidial suspension concentration. <i>Australasian Plant Pathology</i> , 2006, 35, 77.	0.5	2
116	Spatial and temporal patterns of lodging in grain sorghum ( <i>Sorghum bicolor</i> ) in Australia. <i>Crop and Pasture Science</i> , 2020, 71, 379.	0.7	2
117	An integrated systems approach to crop improvement. , 2009, , 189-207.		2
118	Decoding the sorghum methylome: understanding epigenetic contributions to agronomic traits. <i>Biochemical Society Transactions</i> , 2022, 50, 583-596.	1.6	2
119	Modelling Heat and Drought Adaptation in Crops. <i>Proceedings (mdpi)</i> , 2019, 36, 190.	0.2	1
120	How Do Crops Balance Water Supply and Demand when Water Is Limiting?. <i>Proceedings (mdpi)</i> , 2020, 36, .	0.2	0
121	Tall 3-dwarfs: oxymoron or opportunity to increase grain yield in sorghum?. <i>Planta</i> , 2021, 253, 110.	1.6	0