

Chris J Brien

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

1,934
citations

257429

24
h-index

276858

41
g-index

82
all docs

82
docs citations

82
times ranked

2359
citing authors

#	ARTICLE	IF	CITATIONS
1	Salinity tolerance loci revealed in rice using high-throughput non-invasive phenotyping. <i>Nature Communications</i> , 2016, 7, 13342.	12.8	218
2	Integrating Image-Based Phenomics and Association Analysis to Dissect the Genetic Architecture of Temporal Salinity Responses in Rice. <i>Plant Physiology</i> , 2015, 168, 1476-1489.	4.8	146
3	Three-dimensional analysis of active cervical motion: the effect of age and gender. <i>Clinical Biomechanics</i> , 1996, 11, 201-206.	1.2	118
4	Exploring genetic variation for salinity tolerance in chickpea using image-based phenotyping. <i>Scientific Reports</i> , 2017, 7, 1300.	3.3	94
5	Differential expression of microRNAs and potential targets under drought stress in barley. <i>Plant, Cell and Environment</i> , 2017, 40, 11-24.	5.7	73
6	Genome-wide association of barley plant growth under drought stress using a nested association mapping population. <i>BMC Plant Biology</i> , 2019, 19, 134.	3.6	73
7	A QTL on the short arm of wheat (<i>Triticum aestivum</i> L.) chromosome 3B affects the stability of grain weight in plants exposed to a brief heat shock early in grain filling. <i>BMC Plant Biology</i> , 2016, 16, 100.	3.6	62
8	Drought-inducible expression of Hv-miR827 enhances drought tolerance in transgenic barley. <i>Functional and Integrative Genomics</i> , 2017, 17, 279-292.	3.5	62
9	Mapping of novel salt tolerance QTL in an Excalibur—Kukri doubled haploid wheat population. <i>Theoretical and Applied Genetics</i> , 2018, 131, 2179-2196.	3.6	60
10	Accounting for variation in designing greenhouse experiments with special reference to greenhouses containing plants on conveyor systems. <i>Plant Methods</i> , 2013, 9, 5.	4.3	58
11	The Development of Hyperspectral Distribution Maps to Predict the Content and Distribution of Nitrogen and Water in Wheat (<i>Triticum aestivum</i>). <i>Frontiers in Plant Science</i> , 2019, 10, 1380.	3.6	56
12	Multiple randomizations. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2006, 68, 571-609.	2.2	46
13	A Comprehensive Image-based Phenomic Analysis Reveals the Complex Genetic Architecture of Shoot Growth Dynamics in Rice (<i>Oryza sativa</i>). <i>Plant Genome</i> , 2017, 10, plantgenome2016.07.0064.	2.8	45
14	Examining the dimensions of a lifestyle tourism destination. <i>International Journal of Culture, Tourism and Hospitality Research</i> , 2008, 2, 44-66.	2.9	42
15	Salinity tolerance in Australian wild <i>Oryza</i> species varies widely and matches that observed in <i>O. sativa</i> . <i>Rice</i> , 2018, 11, 66.	4.0	36
16	Analysis of Judge Performance in Wine-Quality Evaluations. <i>Journal of Food Science</i> , 1987, 52, 1273-1279.	3.1	34
17	Formulating mixed models for experiments, including longitudinal experiments. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2009, 14, 253-280.	1.4	34
18	Biosynthesis of Abscisic Acid under Osmotic Stress: Studies Based on a Dual Labelling Technique. <i>Physiologia Plantarum</i> , 1975, 33, 166-170.	5.2	33

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19	ToF-SIMS as a New Method to Determine the Contact Angle of Mineral Surfaces. <i>Langmuir</i> , 2010, 26, 8122-8130.	3.5	33
20	Developing resilient green roofs in a dry climate. <i>Science of the Total Environment</i> , 2014, 490, 579-589.	8.0	31
21	Analysis of Variance Tables Based on Experimental Structure. <i>Biometrics</i> , 1983, 39, 53.	1.4	30
22	Growth curve registration for evaluating salinity tolerance in barley. <i>Plant Methods</i> , 2017, 13, 18.	4.3	29
23	Resource allocation to growth or luxury consumption drives mycorrhizal responses. <i>Ecology Letters</i> , 2019, 22, 1757-1766.	6.4	29
24	Variation in shoot tolerance mechanisms not related to ion toxicity in barley. <i>Functional Plant Biology</i> , 2017, 44, 1194.	2.1	28
25	Multiphase Experiments with at Least One Later Laboratory Phase. I. Orthogonal Designs. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2011, 16, 422-450.	1.4	27
26	An analysis of correlation matrices: Equal correlations. <i>Biometrika</i> , 1984, 71, 545-554.	2.4	25
27	Dissecting new genetic components of salinity tolerance in two-row spring barley at the vegetative and reproductive stages. <i>PLoS ONE</i> , 2020, 15, e0236037.	2.5	25
28	Identification of salt tolerance QTL in a wheat RIL mapping population using destructive and non-destructive phenotyping. <i>Functional Plant Biology</i> , 2021, 48, 131.	2.1	22
29	High-throughput 3D modelling to dissect the genetic control of leaf elongation in barley (<i>Hordeum vulgare</i>). <i>Plant Journal</i> , 2019, 98, 555-570.	5.7	20
30	Novel Salinity Tolerance Loci in Chickpea Identified in Glasshouse and Field Environments. <i>Frontiers in Plant Science</i> , 2021, 12, 667910.	3.6	20
31	Smoothing and extraction of traits in the growth analysis of noninvasive phenotypic data. <i>Plant Methods</i> , 2020, 16, 36.	4.3	19
32	A single nucleotide substitution in <i>TaHKT1</i> ; <i>5â€</i> controls shoot Na ⁺ accumulation in bread wheat. <i>Plant, Cell and Environment</i> , 2020, 43, 2158-2171.	5.7	18
33	Effect of Rice GDP-L-Galactose Phosphorylase Constitutive Overexpression on Ascorbate Concentration, Stress Tolerance, and Iron Bioavailability in Rice. <i>Frontiers in Plant Science</i> , 2020, 11, 595439.	3.6	18
34	Evaluating implicit judgments from image search clickthrough data. <i>Journal of the Association for Information Science and Technology</i> , 2012, 63, 2451-2462.	2.6	15
35	Genetic architecture of apple fruit quality traits following storage and implications for genetic improvement. <i>Tree Genetics and Genomes</i> , 2016, 12, 1.	1.6	15
36	The response of the grape cultivar Crouchen (Australian syn. Clare Riesling) to various trellis and pruning treatments. <i>Australian Journal of Agricultural Research</i> , 1976, 27, 845.	1.5	14

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37	Variable water cycles have a greater impact on wheat growth and soil nitrogen response than constant watering. <i>Plant Science</i> , 2020, 290, 110146.	3.6	13
38	Decomposition tables for experiments I. A chain of randomizations. <i>Annals of Statistics</i> , 2009, 37, .	2.6	12
39	An investigation of tree growth in permeable paving. <i>Urban Forestry and Urban Greening</i> , 2019, 43, 126374.	5.3	12
40	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.	3.3	12
41	Experimental power considerationsâ€”Justifying replication for animal care and use committees. <i>Poultry Science</i> , 2013, 92, 2490-2497.	3.4	11
42	Heat susceptibility of grain filling in wheat (<i>Triticum aestivum</i> L.) linked with rapid chlorophyll loss during a 3-day heat treatment. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	2.1	11
43	The wheat <i>Seven in absentia</i> gene is associated with increases in biomass and yield in hot climates. <i>Journal of Experimental Botany</i> , 2021, 72, 3774-3791.	4.8	11
44	Randomization-based models for multitiered experiments: I. A chain of randomizations. <i>Annals of Statistics</i> , 2016, 44, .	2.6	10
45	Understanding the Interactions between Biomass, Grain Production and Grain Protein Content in High and Low Protein Wheat Genotypes under Controlled Environments. <i>Agronomy</i> , 2019, 9, 706.	3.0	10
46	Tiers, Structure Formulae and the Analysis of Complicated Experiments. <i>Journal of the Royal Statistical Society: Series D (the Statistician)</i> , 1999, 48, 41-52.	0.2	9
47	Validity study of a novel test protocol for the identification of submaximal muscular effort. <i>Isokinetics and Exercise Science</i> , 1996, 6, 139-144.	0.4	8
48	A Statistically Rigorous Approach to Experimental Design of Vertical Living Walls for Green Buildings. <i>Urban Science</i> , 2019, 3, 71.	2.3	8
49	High-throughput phenotyping reveals growth of <i>Medicago truncatula</i> is positively affected by arbuscular mycorrhizal fungi even at high soil phosphorus availability. <i>Plants People Planet</i> , 2020, 3, 600.	3.3	8
50	High-throughput, image-based phenotyping reveals nutrient-dependent growth facilitation in a grass-legume mixture. <i>PLoS ONE</i> , 2020, 15, e0239673.	2.5	8
51	Decomposition tables for experiments. II. Twoâ€”one randomizations. <i>Annals of Statistics</i> , 2010, 38, .	2.6	7
52	A field and laboratory investigation of kerb side inlet pits using four media types. <i>Journal of Environmental Management</i> , 2019, 247, 281-290.	7.8	7
53	Identifying the genetic control of salinity tolerance in the bread wheat landrace Mocho de Espiga Branca. <i>Functional Plant Biology</i> , 2021, 48, 1148-1160.	2.1	7
54	Effects of 1-methylcyclopropene on firmness and flesh browning in Pink Lady TM apples. <i>Journal of Horticultural Science and Biotechnology</i> , 2008, 83, 165-170.	1.9	6

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55	Effects of various isoresistive training programmes on trunk muscle performance. <i>Clinical Biomechanics</i> , 1995, 10, 379-384.	1.2	5
56	Multiphase experiments in practice: A look back. <i>Australian and New Zealand Journal of Statistics</i> , 2017, 59, 327-352.	0.9	5
57	Evaluation of commercial composts and potting mixes and their ability to support arbuscular mycorrhizal fungi with maize (<i>Zea mays</i>) as host plant. <i>Waste Management</i> , 2021, 134, 187-196.	7.4	5
58	Using the randomisation in specifying the ANOVA model and table for properly and improperly replicated grazing trials. <i>Australian Journal of Experimental Agriculture</i> , 1998, 38, 325.	1.0	5
59	An analysis of correlation matrices: Variables cross-classified by two factors. <i>Biometrika</i> , 1988, 75, 469-476.	2.4	4
60	Performance of a kerb side inlet to irrigate street trees and to improve road runoff water quality: a comparison of four media types. <i>Environmental Science and Pollution Research</i> , 2019, 26, 33995-34007.	5.3	4
61	Transcripts of wheat at a target locus on chromosome 6B associated with increased yield, leaf mass and chlorophyll index under combined drought and heat stress. <i>PLoS ONE</i> , 2020, 15, e0241966.	2.5	4
62	Harvest pruning of young Sultana vines under various training systems. <i>Australian Journal of Experimental Agriculture</i> , 1978, 18, 847.	1.0	3
63	Quasi-Latin designs. <i>Electronic Journal of Statistics</i> , 2012, 6, .	0.7	3
64	Multiphase experiments with at least one later laboratory phase. II. Nonorthogonal designs. <i>Australian and New Zealand Journal of Statistics</i> , 2019, 61, 234-268.	0.9	3
65	Pruning Sultana vines by the arched cane system. <i>Australian Journal of Experimental Agriculture</i> , 1978, 18, 301.	1.0	2
66	Ground movement in a moderately expansive soil subject to rainfall infiltration through pervious paving. <i>Ecological Engineering</i> , 2020, 158, 106022.	3.6	2
67	Use of the starwheel sprayer for applying drying emulsion to sultana grapes to be dried on the trellis. <i>Australian Journal of Experimental Agriculture</i> , 1977, 17, 871.	1.0	2
68	Comments on "Therapist variation within randomized trials of psychotherapy: Implications for precision, internal and external validity". <i>Statistical Methods in Medical Research</i> , 2012, 21, 215-216.	1.5	1
69	Impact on genetic gain from using misspecified statistical models in generating <i>rep</i> designs for early generation plant breeding experiments. <i>Crop Science</i> , 2020, 60, 3083-3095.	1.8	1
70	Frequency Versus Quantity: Phenotypic Response of Two Wheat Varieties to Water and Nitrogen Variability. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 1631-1641.	3.4	1
71	Designing, understanding and modelling two-phase experiments with human subjects. <i>Statistical Methods in Medical Research</i> , 2022, 31, 626-645.	1.5	1
72	Title is missing!, 2020, 15, e0236037.		0

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73	Title is missing!. , 2020, 15, e0236037.		0
74	Title is missing!. , 2020, 15, e0236037.		0
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79	Title is missing!. , 2020, 15, e0239673.		0