Brian P Dilkes

List of Publications by Year
in descending order

72 papers	4,906 citations	109321 35 h-index	102487 66 g-index
90 all docs	90 docs citations	90 times ranked	5535 citing authors

#	ARTICLE	IF	CITATIONS
1	Maize Plants Chimeric for an Autoactive Resistance Gene Display a Cell-Autonomous Hypersensitive Response but Nonâ€“Cell Autonomous Defense Signaling. Molecular Plant-Microbe Interactions, 2021, 34, 606-616.	2.6	2
2	Metabolic source isotopic pair labeling and genome-wide association are complementary tools for the identification of metaboliteâ€“gene associations in plants. Plant Cell, 2021, 33, 492-510.	6.6	12
3	Bracing for sustainable agriculture: the development and function of brace roots in members of Poaceae. Current Opinion in Plant Biology, 2021, 59, 101985.	7.1	16
4	<i>slim shady</i> is a novel allele of <i>PHYTOCHROME B</i> present in the Tâ€DNA line SALK_015201. Plant Direct, 2021, 5, e00326.	1.9	6
5	Mutation of the nuclear pore complex component, <i>aladin1</i>, disrupts asymmetric cell division in <i>Zea mays</i> (maize). G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	8
6	The Effectiveness of Physical and Chemical Defense Responses of Wild Emmer Wheat Against Aphids Depends on Leaf Position and Genotype. Frontiers in Plant Science, 2021, 12, 667820.	3.6	16
7	Identification of the Tyrosine- and Phenylalanine-Derived Soluble Metabolomes of Sorghum. Frontiers in Plant Science, 2021, 12, 714164.	3.6	14
8	Interaction Between Induced and Natural Variation at <i>oil yellow1</i> Delays Reproductive Maturity in Maize. G3: Genes, Genomes, Genetics, 2020, 10, 797-810.	1.8	3
9	Variation in Maize Chlorophyll Biosynthesis Alters Plant Architecture. Plant Physiology, 2020, 184, 300-315.	4.8	6
10	Maize brace roots provide stalk anchorage. Plant Direct, 2020, 4, e00284.	1.9	25
11	Current status of the multinational Arabidopsis community. Plant Direct, 2020, 4, e00248.	1.9	13
12	Endosidin20 Targets the Cellulose Synthase Catalytic Domain to Inhibit Cellulose Biosynthesis. Plant Cell, 2020, 32, 2141-2157.	6.6	25
13	Multivariate analysis reveals environmental and genetic determinants of element covariation in the maize grain ionome. Plant Direct, 2019, 3, e00139.	1.9	10
14	A<i>Very Oil Yellow1</i>Modifier of the<i>Oil Yellow1-N1989</i>Allele Uncovers a Cryptic Phenotypic Impact of<i>Cis</i>-regulatory Variation in Maize. G3: Genes, Genomes, Genetics, 2019, 9, 375-390.	1.8	9
15	Dark period transcriptomic and metabolic profiling of two diverse <i>Eutrema salsugineum</i> accessions. Plant Direct, 2018, 2, e00032.	1.9	4
16	Brassinosteroids Modulate Meristem Fate and Differentiation of Unique Inflorescence Morphology in <i>Setaria viridis</i>. Plant Cell, 2018, 30, 48-66.	6.6	47
17	Whole-Genome Sequence Accuracy Is Improved by Replication in a Population of Mutagenized Sorghum. G3: Genes, Genomes, Genetics, 2018, 8, 1079-1094.	1.8	33
18	New Alleles of <i>FAD3A</i> Lower the Linolenic Acid Content of Soybean Seeds. Crop Science, 2018, 58, 713-718.	1.8	18

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19	Integrating Coexpression Networks with GWAS to Prioritize Causal Genes in Maize. Plant Cell, 2018, 30, 2922-2942.	6.6	137
20	Adult plant resistance in maize to northern leaf spot is a feature of partial loss-of-function alleles of Hm1. PLoS Pathogens, 2018, 14, e1007356.	4.7	16
21	Propagation of cell death in dropdead1, a sorghum ortholog of the maize lls1 mutant. PLoS ONE, 2018, 13, e0201359.	2.5	7
22	Forward Genetics by Sequencing EMS Variation-Induced Inbred Lines. G3: Genes, Genomes, Genetics, 2017, 7, 413-425.	1.8	33
23	A pair of transposon-derived proteins function in a histone acetyltransferase complex for active DNA demethylation. Cell Research, 2017, 27, 226-240.	12.0	80
24	Phytohormone inhibitor treatments phenocopy brassinosteroidâ€“gibberellin dwarf mutant interactions in maize. Plant Direct, 2017, 1, .	1.9	15
25	Mediator Complex Subunits MED2, MED5, MED16, and MED23 Genetically Interact in the Regulation of Phenylpropanoid Biosynthesis. Plant Cell, 2017, 29, 3269-3285.	6.6	46
26	Mapping the Increased Protein Digestibility Trait in the Highâ€Lysine Sorghum Mutant P721Q. Crop Science, 2016, 56, 2647-2651.	1.8	9
27	Nuclear Localised MORE SULPHUR ACCUMULATION1 Epigenetically Regulates Sulphur Homeostasis in Arabidopsis thaliana. PLoS Genetics, 2016, 12, e1006298.	3.5	81
28	The Interaction of Genotype and Environment Determines Variation in the Maize Kernel Ionome. G3: Genes, Genomes, Genetics, 2016, 6, 4175-4183.	1.8	41
29	Cross-Talk Between Sporophyte and Gametophyte Generations Is Promoted by CHD3 Chromatin Remodelers in<i>Arabidopsis thaliana</i>. Genetics, 2016, 203, 817-829.	2.9	16
30	Maternal Gametophyte Effects on Seed Development in Maize. Genetics, 2016, 204, 233-248.	2.9	17
31	<i>nana plant2</i> Encodes a Maize Ortholog of the Arabidopsis Brassinosteroid Biosynthesis Gene <i>DWARF1</i>, Identifying Developmental Interactions between Brassinosteroids and Gibberellins. Plant Physiology, 2016, 171, 2633-2647.	4.8	83
32	Integration of Experiments across Diverse Environments Identifies the Genetic Determinants of Variation in <i>Sorghum bicolor</i> Seed Element Composition. Plant Physiology, 2016, 170, 1989-1998.	4.8	53
33	Re-Evaluation of Reportedly Metal Tolerant Arabidopsis thaliana Accessions. PLoS ONE, 2016, 11, e0130679.	2.5	7
34	Sunflower â€˜Sunspotâ€™ is Hyposensitive to GA3 and has a Missense Mutation in the DELLA Motif of HaDella1. Journal of the American Society for Horticultural Science, 2016, 141, 389-394.	1.0	5
35	Discovery of a novel amino acid racemase through exploration of natural variation in <i>Arabidopsis thaliana</i>. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11726-11731.	7.1	75
36	The <i>BOY NAMED SUE</i> Quantitative Trait Locus Confers Increased Meiotic Stability to an Adapted Natural Allopolyploid of <i>Arabidopsis</i>. Plant Cell, 2014, 26, 181-194.	6.6	81

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37	Variation in Sulfur and Selenium Accumulation Is Controlled by Naturally Occurring Isoforms of the Key Sulfur Assimilation Enzyme ADENOSINE 5â€²-PHOSPHOSULFATE REDUCTASE2 across the Arabidopsis Species Range Â Â. Plant Physiology, 2014, 166, 1593-1608.	4.8	64
38	Exploiting Natural Variation of Secondary Metabolism Identifies a Gene Controlling the Glycosylation Diversity of Dihydroxybenzoic Acids in <i>Arabidopsis thaliana</i>. Genetics, 2014, 198, 1267-1276.	2.9	36
39	Natural Variation at<i>sympathy for the ligule</i>Controls Penetrance of the Semidominant<i>Liguleless narrow-R</i>Mutation in<i>Zea mays</i>. G3: Genes, Genomes, Genetics, 2014, 4, 2297-2306.	1.8	16
40	Arabidopsis <i>gulliver1/superroot2â€7</i> identifies a metabolic basis for auxin and brassinosteroid synergy. Plant Journal, 2014, 80, 797-808.	5.7	35
41	Polyploids Exhibit Higher Potassium Uptake and Salinity Tolerance in <i>Arabidopsis</i>. Science, 2013, 341, 658-659.	12.6	298
42	Early Disruption of Maternalâ€"Zygotic Interaction and Activation of Defense-Like Responses in<i>Arabidopsis</i>Interspecific Crosses Â Â. Plant Cell, 2013, 25, 2037-2055.	6.6	41
43	Forward Genetics by Genome Sequencing Reveals That Rapid Cyanide Release Deters Insect Herbivory of <i>Sorghum bicolor</i>. Genetics, 2013, 195, 309-318.	2.9	45
44	Brassinosteroids Regulate Plant Growth through Distinct Signaling Pathways in Selaginella and Arabidopsis. PLoS ONE, 2013, 8, e81938.	2.5	36
45	Genetic Adaptation Associated with Genome-Doubling in Autotetraploid Arabidopsis arenosa. PLoS Genetics, 2012, 8, e1003093.	3.5	152
46	Cephalopod genomics: A plan of strategies and organization. Standards in Genomic Sciences, 2012, 7, 175-188.	1.5	53
47	Hybrid Incompatibility in Arabidopsis Is Determined by a Multiple-Locus Genetic Network Â Â. Plant Physiology, 2012, 158, 801-812.	4.8	42
48	Elemental Profiles Reflect Plant Adaptations to the Environment. Science, 2012, 336, 1661-1663.	12.6	118
49	An assessment of transgenomics as a tool for identifying genes involved in the evolutionary differentiation of closely related plant species. New Phytologist, 2012, 193, 494-503.	7.3	7
50	Differential sensitivity of the <i>Arabidopsis thaliana</i> transcriptome and enhancers to the effects of genome doubling. New Phytologist, 2010, 186, 194-206.	7.3	39
51	Homoeolog-specific retention and use in allotetraploid Arabidopsis suecica depends on parent of origin and network partners. Genome Biology, 2010, 11, R125.	9.6	83
52	Phenotypic Consequences of Aneuploidy in<i>Arabidopsis thaliana</i>. Genetics, 2010, 186, 1231-1245.	2.9	103
53	Dosage-Dependent Deregulation of an AGAMOUS-LIKE Gene Cluster Contributes to Interspecific Incompatibility. Current Biology, 2009, 19, 1128-1132.	3.9	123
54	Dosage and parent-of-origin effects shaping aneuploid swarms in A. thaliana. Heredity, 2009, 103, 458-468.	2.6	36

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55	The Maternally Expressed WRKY Transcription Factor TTG2 Controls Lethality in Interploidy Crosses of Arabidopsis. PLoS Biology, 2008, 6, e308.	5.6	115
56	Transgene-Induced Gene Silencing Is Not Affected by a Change in Ploidy Level. PLoS ONE, 2008, 3, e3061.	2.5	4
57	Genetic Basis for Dosage Sensitivity in Arabidopsis thaliana. PLoS Genetics, 2007, 3, e70.	3.5	41
58	Parent-Dependent Loss of Gene Silencing during Interspecies Hybridization. Current Biology, 2006, 16, 1322-1328.	3.9	276
59	Molecular karyotyping and aneuploidy detection inArabidopsis thalianausing quantitative fluorescent polymerase chain reaction. Plant Journal, 2006, 48, 307-319.	5.7	41
60	Aneuploidy and Genetic Variation in the Arabidopsis thaliana Triploid Response. Genetics, 2005, 170, 1979-1988.	2.9	142
61	Cyclin-Dependent Kinase Inhibitors in Maize Endosperm and Their Potential Role in Endoreduplication. Plant Physiology, 2005, 138, 2323-2336.	4.8	102
62	Genetic Basis for Dosage Sensitivity in A. thaliana. PLoS Genetics, 2005, preprint, e70.	3.5	0
63	A Differential Dosage Hypothesis for Parental Effects in Seed Development. Plant Cell, 2004, 16, 3174-3180.	6.6	128
64	Maize Opaque Endosperm Mutations Create Extensive Changes in Patterns of Gene Expression[W]. Plant Cell, 2002, 14, 2591-2612.	6.6	159
65	Stimulation of the cell cycle and maize transformation by disruption of the plant retinoblastoma pathway. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11975-11980.	7.1	87
66	Genetic Analyses of Endoreduplication in <i>Zea mays</i> Endosperm: Evidence of Sporophytic and Zygotic Maternal Control. Genetics, 2002, 160, 1163-1177.	2.9	48
67	Investigating the hows and whys of DNA endoreduplication. Journal of Experimental Botany, 2001, 52, 183-192.	4.8	284
68	The Arabidopsis dwarf1 Mutant Is Defective in the Conversion of 24-Methylenecholesterol to Campesterol in Brassinosteroid Biosynthesis1. Plant Physiology, 1999, 119, 897-908.	4.8	227
69	Characterization of maize (Zea mays L.) Wee1 and its activity in developing endosperm. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 4180-4185.	7.1	139
70	The DWF4 Gene of Arabidopsis Encodes a Cytochrome P450 That Mediates Multiple 22Î±-Hydroxylation Steps in Brassinosteroid Biosynthesis. Plant Cell, 1998, 10, 231-243.	6.6	431
71	The DWF4 Gene of Arabidopsis Encodes a Cytochrome P450 That Mediates Multiple 22a-Hydroxylation Steps in Brassinosteroid Biosynthesis. Plant Cell, 1998, 10, 231.	6.6	257
72	Cloning Genes from T-DNA Tagged Mutants. , 1998, 82, 339-351.		14