

A Mark Settles

List of Publications by Year in descending order

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48
papers

2,114
citations

304602

22
h-index

243529

44
g-index

55
all docs

55
docs citations

55
times ranked

2583
citing authors

#	ARTICLE	IF	CITATIONS
1	Sec-Independent Protein Translocation by the Maize Hcf106 Protein. <i>Science</i> , 1997, 278, 1467-1470.	6.0	268
2	Steady-state transposon mutagenesis in inbred maize. <i>Plant Journal</i> , 2005, 44, 52-61.	2.8	234
3	The maize W22 genome provides a foundation for functional genomics and transposon biology. <i>Nature Genetics</i> , 2018, 50, 1282-1288.	9.4	183
4	Sequence-indexed mutations in maize using the UniformMu transposon-tagging population. <i>BMC Genomics</i> , 2007, 8, 116.	1.2	124
5	Development of a calibration to predict maize seed composition using single kernel near infrared spectroscopy. <i>Journal of Cereal Science</i> , 2006, 43, 236-243.	1.8	103
6	Molecular analysis of high-copy insertion sites in maize. <i>Nucleic Acids Research</i> , 2004, 32, e54-e54.	6.5	82
7	High-throughput Near-infrared Reflectance Spectroscopy for Predicting Quantitative and Qualitative Composition Phenotypes of Individual Maize Kernels. <i>Cereal Chemistry</i> , 2009, 86, 556-564.	1.1	78
8	Old and new pathways of protein export in chloroplasts and bacteria. <i>Trends in Cell Biology</i> , 1998, 8, 494-501.	3.6	71
9	Maize <i>Rough Endosperm3</i> Encodes an RNA Splicing Factor Required for Endosperm Cell Differentiation and Has a Nonautonomous Effect on Embryo Development. <i>Plant Cell</i> , 2011, 23, 4280-4297.	3.1	71
10	Near-Infrared Reflectance Spectroscopy Predicts Protein, Starch, and Seed Weight in Intact Seeds of Common Bean (<i>Phaseolus vulgaris</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 702-706.	2.4	70
11	Ionic Characterization of Maize Kernels in the Intermated B73 × Mo17 Population. <i>Crop Science</i> , 2013, 53, 208-220.	0.8	65
12	The Maize <i>Viviparous8</i> Locus, Encoding a Putative ALTERED MERISTEM PROGRAM1-Like Peptidase, Regulates Abscisic Acid Accumulation and Coordinates Embryo and Endosperm Development. <i>Plant Physiology</i> , 2008, 146, 1193-1206.	2.3	61
13	The maize <i>viviparous15</i> locus encodes the molybdopterin synthase small subunit. <i>Plant Journal</i> , 2006, 45, 264-274.	2.8	50
14	The maize <i>Viviparous10/Viviparous13</i> locus encodes the <i>Cnx1</i> gene required for molybdenum cofactor biosynthesis. <i>Plant Journal</i> , 2006, 45, 250-263.	2.8	41
15	The Thylakoid pH-dependent Pathway Machinery Facilitates RR-independent N-Tail Protein Integration. <i>Journal of Biological Chemistry</i> , 2000, 275, 23483-23490.	1.6	38
16	Analysis of Maize (<i>Zea mays</i>) Kernel Density and Volume Using Microcomputed Tomography and Single-Kernel Near-Infrared Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 10872-10880.	2.4	38
17	Chloroplast-localized 6-phosphogluconate dehydrogenase is critical for maize endosperm starch accumulation. <i>Journal of Experimental Botany</i> , 2013, 64, 2231-2242.	2.4	38
18	Aberrant splicing in maize <i>rough endosperm3</i> reveals a conserved role for U12 splicing in eukaryotic multicellular development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2195-E2204.	3.3	38

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19	Effects of long-term exposure to elevated temperature on <i>Zea mays</i> endosperm development during grain fill. <i>Plant Journal</i> , 2019, 99, 23-40.	2.8	37
20	Genome assembly and population genomic analysis provide insights into the evolution of modern sweet corn. <i>Nature Communications</i> , 2021, 12, 1227.	5.8	37
21	Functions of maize genes encoding pyruvate phosphate dikinase in developing endosperm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E24-E33.	3.3	35
22	Quantitative trait loci associated with soybean seed weight and composition under different phosphorus levels. <i>Journal of Integrative Plant Biology</i> , 2018, 60, 232-241.	4.1	32
23	RNA Binding Motif Protein 48 Is Required for U12 Splicing and Maize Endosperm Differentiation. <i>Plant Cell</i> , 2019, 31, 715-733.	3.1	27
24	Duplication and Suppression of Chloroplast Protein Translocation Genes in Maize. <i>Genetics</i> , 2001, 157, 349-360.	1.2	25
25	Enhanced Single Seed Trait Predictions in Soybean (<i>Glycine max</i>) and Robust Calibration Model Transfer with Near-Infrared Reflectance Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 1079-1086.	2.4	23
26	Engineering 6-phosphogluconate dehydrogenase improves grain yield in heat-stressed maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33177-33185.	3.3	22
27	NATURAL VARIATION IN SEED COMPOSITION OF 91 COMMON BEAN GENOTYPES AND THEIR POSSIBLE ASSOCIATION WITH SEED COAT COLOR. <i>Journal of Plant Nutrition</i> , 2013, 36, 772-780.	0.9	21
28	Maize defective kernel5 is a bacterial TamB homologue required for chloroplast envelope biogenesis. <i>Journal of Cell Biology</i> , 2019, 218, 2638-2658.	2.3	19
29	Protein, weight, and oil prediction by single-seed near-infrared spectroscopy for selection of seed quality and yield traits in pea (<i>Pisum sativum</i>). <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 3488-3497.	1.7	19
30	Parent-of-Origin-Effect rough endosperm Mutants in Maize. <i>Genetics</i> , 2016, 204, 221-231.	1.2	16
31	Quantification of seed ionome variation in 90 diverse soybean (<i>Glycine max</i>) lines. <i>Journal of Plant Nutrition</i> , 2017, 40, 2808-2817.	0.9	16
32	A novel genome-scale repeat finder geared towards transposons. <i>Bioinformatics</i> , 2008, 24, 468-476.	1.8	14
33	Efficient Molecular Marker Design Using the MaizeGDB Mo17 SNPs and Indels Track. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1143-1145.	0.8	12
34	Ovary abortion is prevalent in diverse maize inbred lines and is under genetic control. <i>Scientific Reports</i> , 2018, 8, 13032.	1.6	12
35	Competitive Growth Assay of Mutagenized <i>Chlamydomonas reinhardtii</i> Compatible With the International Space Station Veggie Plant Growth Chamber. <i>Frontiers in Plant Science</i> , 2020, 11, 631.	1.7	12
36	Transposon Tagging and Reverse Genetics. <i>Biotechnology in Agriculture and Forestry</i> , 2009, , 143-159.	0.2	10

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37	Characterization of pea seed nutritional value within a diverse population of <i>Pisum sativum</i> . PLoS ONE, 2021, 16, e0259565.	1.1	10
38	Distributed simple sequence repeat markers for efficient mapping from maize public mutagenesis populations. Theoretical and Applied Genetics, 2010, 121, 697-704.	1.8	9
39	Modulation of early maize seedling performance via priming under sub-optimal temperatures. PLoS ONE, 2018, 13, e0206861.	1.1	9
40	Seed Phenomics. , 2015, , 67-82.		8
41	EMS Mutagenesis of Maize Pollen. Methods in Molecular Biology, 2020, 2122, 25-33.	0.4	6
42	Ion transport in rat tongue epithelium in vitro: A developmental study. Pharmacology Biochemistry and Behavior, 1993, 46, 83-88.	1.3	5
43	Opportunities and Challenges Grow from <i>Arabidopsis</i> Genome Sequencing. Genome Research, 1998, 8, 83-85.	2.4	5
44	Restorer-of-Fertility Mutations Recovered in Transposon-Active Lines of S Male-Sterile Maize. G3: Genes, Genomes, Genetics, 2018, 8, 291-302.	0.8	5
45	Classification approaches for sorting maize (<i>Zea mays</i> subsp. <i>mays</i>) haploids using single-kernel near-infrared spectroscopy. Plant Breeding, 2020, 139, 1103-1112.	1.0	4
46	Accelerating Biological Insight for Understudied Genes. Integrative and Comparative Biology, 2021, , .	0.9	2
47	Genetic Screens to Target Embryo and Endosperm Pathways in Arabidopsis and Maize. Methods in Molecular Biology, 2020, 2122, 3-14.	0.4	1
48	RepFrag. , 2010, , .		0