John E Mullet

List of Publications by Year
in descending order

128 papers	11,912 citations	16411 64 h-index	28224 105 g-index
133 all docs	133 docs citations	133 times ranked	8463 citing authors

#	Article	IF	Citations
1	Chlorophyll Proteins of Photosystem I. Plant Physiology, 1980, 65, 814-822.	2.3	559
2	Designing sorghum as a dedicated bioenergy feedstock. Biofuels, Bioproducts and Biorefining, 2007, 1, 147-157.	1.9	539
3	Jasmonic Acid Signaling Modulates Ozone-Induced Hypersensitive Cell Death. Plant Cell, 2000, 12, 1633-1646.	3.1	437
4	The <i>Sorghum bicolor</i> reference genome: improved assembly, gene annotations, a transcriptome atlas, and signatures of genome organization. Plant Journal, 2018, 93, 338-354.	2.8	431
5	Turgor-responsive gene transcription and RNA levels increase rapidly when pea shoots are wilted. Sequence and expression of three inducible genes. Plant Molecular Biology, 1990, 15, 11-26.	2.0	335
6	Coincident light and clock regulation of <i>pseudoresponse regulator protein 37</i> (<i>PRR37</i>) controls photoperiodic flowering in sorghum. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16469-16474.	3.3	299
7	Sorghum stay-green QTL individually reduce post-flowering drought-induced leaf senescence. Journal of Experimental Botany, 2006, 58, 327-338.	2.4	286
8	Drought adaptation of stay-green sorghum is associated with canopy development, leaf anatomy, root growth, and water uptake. Journal of Experimental Botany, 2014, 65, 6251-6263.	2.4	264
9	Sorghum bicolorâ€™s Transcriptome Response to Dehydration, High Salinity and ABA. Plant Molecular Biology, 2005, 58, 699-720.	2.0	262
10	Genetic Improvement of Sorghum as a Biofuel Feedstock: I. QTL for Stem Sugar and Grain Nonstructural Carbohydrates. Crop Science, 2008, 48, 2165-2179.	0.8	243
11	Molecular mapping of QTLs conferring stay-green in grain sorghum (<i>Sorghum bicolor</i>L.) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	237
12	Water Deficit and Abscisic Acid Cause Differential Inhibition of Shoot <i>versus</i> Root Growth in Soybean Seedlings. Plant Physiology, 1990, 92, 205-214.	2.3	232
13	Plastid Transcription Activity and DNA Copy Number Increase Early in Barley Chloroplast Development. Plant Physiology, 1989, 89, 1011-1018.	2.3	202
14	Arabidopsis thaliana Atvsp is homologous to soybean VspA and VspB, genes encoding vegetative storage protein acid phosphatases, and is regulated similarly by methyl jasmonate, wounding, sugars, light and phosphate. Plant Molecular Biology, 1995, 27, 933-942.	2.0	198
15	Transcriptional Profiling of Sorghum Induced by Methyl Jasmonate, Salicylic Acid, and Aminocyclopropane Carboxylic Acid Reveals Cooperative Regulation and Novel Gene Responses. Plant Physiology, 2005, 138, 352-368.	2.3	189
16	A High-throughput AFLP-based Method for Constructing Integrated Genetic and Physical Maps: Progress Toward a Sorghum Genome Map. Genome Research, 2000, 10, 789-807.	2.4	187
17	Energy Sorghum--a genetic model for the design of C4 grass bioenergy crops. Journal of Experimental Botany, 2014, 65, 3479-3489.	2.4	179
18	Stayâ€green alleles individually enhance grain yield in sorghum under drought by modifying canopy development and water uptake patterns. New Phytologist, 2014, 203, 817-830.	3.5	163

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19	Genetic Improvement of Sorghum as a Biofuel Feedstock: II. QTL for Stem and Leaf Structural Carbohydrates. Crop Science, 2008, 48, 2180-2193.	0.8	162
20	In vivo analysis of plastid psbA, rbcL and rpl32 UTR elements by chloroplast transformation: tobacco plastid gene expression is controlled by modulation of transcript levels and translation efficiency. Plant Journal, 1999, 19, 333-345.	2.8	156
21	Lipoxygenase gene expression is modulated in plants by water deficit, wounding, and methyl jasmonate. Molecular Genetics and Genomics, 1991, 230, 456-462.	2.4	141
22	Genetic Diversity of Public Inbreds of Sorghum Determined by Mapped AFLP and SSR Markers. Crop Science, 2004, 44, 1236-1244.	0.8	139
23	A Developmental Study of Photosystem I Peripheral Chlorophyll Proteins. Plant Physiology, 1980, 65, 823-827.	2.3	137
24	Ozone Sensitivity in Hybrid Poplar Correlates with Insensitivity to Both Salicylic Acid and Jasmonic Acid. The Role of Programmed Cell Death in Lesion Formation. Plant Physiology, 2000, 123, 487-496.	2.3	126
25	Direct evidence for selective modulation of psbA, rpoA, rbcL and 16S RNA stability during barley chloroplast development. Plant Molecular Biology, 1993, 22, 447-463.	2.0	123
26	Accumulation of Heat Shock Proteins in Field-Grown Cotton. Plant Physiology, 1985, 78, 394-398.	2.3	121
27	Chromosome Identification and Nomenclature of Sorghum bicolor. Genetics, 2005, 169, 1169-1173.	1.2	117
28	Coregulation of Soybean Vegetative Storage Protein Gene Expression by Methyl Jasmonate and Soluble Sugars. Plant Physiology, 1992, 98, 859-867.	2.3	111
29	Multiple transcripts for higher plantrbcL andatpB genes and localization of the transcription initiation site of therbcL gene. Plant Molecular Biology, 1985, 4, 39-54.	2.0	110
30	Anin vitrosystem for accurate transcription Initiation of chloroplast protein genes. Nucleic Acids Research, 1985, 13, 1283-1302.	6.5	109
31	High-Resolution Physical Mapping in Pennisetum squamulatum Reveals Extensive Chromosomal Heteromorphism of the Genomic Region Associated with Apomixis. Plant Physiology, 2004, 134, 1733-1741.	2.3	109
32	High biomass yield energy sorghum: developing a genetic model for <scp>C4</scp> grass bioenergy crops. Biofuels, Bioproducts and Biorefining, 2012, 6, 640-655.	1.9	109
33	Identification of Dw1, a Regulator of Sorghum Stem Internode Length. PLoS ONE, 2016, 11, e0151271.	1.1	109
34	Sequence Analysis of Bacterial Artificial Chromosome Clones from the Apospory-Specific Genomic Region of<i>Pennisetum</i>and<i>Cenchrus</i>Â Â Â. Plant Physiology, 2008, 147, 1396-1411.	2.3	107
35	Inhibition of carotenoid accumulation and abscisic acid biosynthesis in fluridone-treated dark-grown barley. FEBS Journal, 1986, 160, 117-121.	0.2	104
36	Involvement of a Lipoxygenase-Like Enzyme in Abscisic Acid Biosynthesis. Plant Physiology, 1992, 99, 1258-1260.	2.3	102

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37	Water Deficit-Induced Changes in Abscisic Acid, Growth, Polysomes, and Translatable RNA in Soybean Hypocotyls. Plant Physiology, 1988, 88, 289-294.	2.3	100
38	Increased Abscisic Acid Biosynthesis during Plant Dehydration Requires Transcription. Plant Physiology, 1986, 80, 588-591.	2.3	99
39	Chloroplast transcription is required to express the nuclear genes rbcS and cab. Plastid DNA copy number is regulated independently. Plant Molecular Biology, 1991, 17, 813-823.	2.0	99
40	Construction and characterization of a bacterial artificial chromosome library ofArabidopsis thaliana. Plant Molecular Biology Reporter, 1995, 13, 124-128.	1.0	97
41	<i>Ghd7</i> (<i>Ma</i>_{<i>6</i>}) Represses Sorghum Flowering in Long Days: <i>Ghd7</i> Alleles Enhance Biomass Accumulation and Grain Production. Plant Genome, 2014, 7, plantgenome2013.11.0040.	1.6	97
42	Sorghum Phytochrome B Inhibits Flowering in Long Days by Activating Expression of SbPRR37 and SbGHD7, Repressors of SbEHD1, SbCN8 and SbCN12. PLoS ONE, 2014, 9, e105352.	1.1	97
43	Molecular mapping of QTLs conferring stay-green in grain sorghum (<i>Sorghum bicolor</i> L.) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	93
44	The Mechanism of Rhythmic Ethylene Production in Sorghum. The Role of Phytochrome B and Simulated Shading1. Plant Physiology, 1999, 119, 1083-1090.	2.3	92
45	The life history and ecology of the snow alga Chloromonas brevispina comb. nov. (Chlorophyta,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.6	91
46	Sorghum Dw2 Encodes a Protein Kinase Regulator of Stem Internode Length. Scientific Reports, 2017, 7, 4616.	1.6	91
47	The Effect of Tropical Sorghum Conversion and Inbred Development on Genome Diversity as Revealed by Highâ€Resolution Genotyping. Crop Science, 2008, 48, S-12.	0.8	90
48	Integrated karyotyping of sorghum by in situ hybridization of landed BACs. Genome, 2002, 45, 402-412.	0.9	84
49	CONSTANS is a photoperiod regulated activator of flowering in sorghum. BMC Plant Biology, 2014, 14, 148.	1.6	83
50	Pea Chloroplast Glutathione Reductase: Purification and Characterization. Plant Physiology, 1986, 82, 351-356.	2.3	82
51	Photosynthetic leaf area modulates tiller bud outgrowth in sorghum. Plant, Cell and Environment, 2015, 38, 1471-1478.	2.8	82
52	3D sorghum reconstructions from depth images identify QTL regulating shoot architecture. Plant Physiology, 2016, 172, pp.00948.2016.	2.3	81
53	Harnessing Genetic Variation in Leaf Angle to Increase Productivity of <i>Sorghum bicolor</i>. Genetics, 2015, 201, 1229-1238.	1.2	79
54	Complementarity of Raman and Infrared Spectroscopy for Structural Characterization of Plant Epicuticular Waxes. ACS Omega, 2019, 4, 3700-3707.	1.6	76

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55	The life history and ecology of the snow alga <i>Chloromonas polyptera</i> comb. nov. (Chlorophyta,) Tj ETQq1 1 0.784314 rgBT /Over	1.2	75
56	Cell Wall Proteins at Low Water Potentials. Plant Physiology, 1987, 85, 261-267.	2.3	75
57	RIG: Recalibration and Interrelation of Genomic Sequence Data with the GATK. G3: Genes, Genomes, Genetics, 2015, 5, 655-665.	0.8	75
58	Dynamics of biomass partitioning, stem gene expression, cell wall biosynthesis, and sucrose accumulation during development of <i>Sorghum bicolor</i>. Plant Journal, 2016, 88, 662-680.	2.8	75
59	Optimization of protein synthesis in isolated higher plant chloroplasts. Identification of paused translation intermediates. FEBS Journal, 1986, 155, 331-338.	0.2	74
60	Ribosome-binding sites on chloroplastrbcL andpsbA mRNAs and light-induced initiation of D1 translation. Plant Molecular Biology, 1994, 25, 437-448.	2.0	73
61	In vitro transcription of chloroplast protein genes. Methods in Enzymology, 1986, 118, 232-253.	0.4	70
62	Proteins homologous to leaf glycoproteins are abundant in stems of dark-grown soybean seedlings. Analysis of proteins and cDNAs. Plant Molecular Biology, 1988, 11, 845-856.	2.0	70
63	Sequence and transcriptional analysis of the barley ctDNA region upstream of psbD-psbC encoding trnK(UUU), rps16, trnQ(UUG), psbK, psbI, and trnS(GCU). Current Genetics, 1990, 17, 445-454.	0.8	68
64	Light-Dependent Accumulation of Radiolabeled Plastid-Encoded Chlorophyll <i>a</i>-Apoproteins Requires Chlorophyll <i>a</i>. Plant Physiology, 1988, 88, 1246-1256.	2.3	67
65	Sorghum Expressed Sequence Tags Identify Signature Genes for Drought, Pathogenesis, and Skotomorphogenesis from a Milestone Set of 16,801 Unique Transcripts. Plant Physiology, 2005, 139, 869-884.	2.3	66
66	Polysomes, Messenger RNA, and Growth in Soybean Stems during Development and Water Deficit. Plant Physiology, 1988, 86, 725-733.	2.3	65
67	Analysis of barley chloroplast psbD light-responsive promoter elements in transplastomic tobacco. Plant Molecular Biology, 2001, 47, 353-366.	2.0	65
68	Transcriptome Profiling of Tiller Buds Provides New Insights into PhyB Regulation of Tillering and Indeterminate Growth in Sorghum. Plant Physiology, 2016, 170, 2232-2250.	2.3	65
69	Characterization of the barley chloroplast transcription units containing psaA-psaB and psbD-psbC. Nucleic Acids Research, 1987, 15, 5217-5240.	6.5	64
70	Plant cellular responses to water deficit. Plant Growth Regulation, 1996, 20, 119-124.	1.8	63
71	A salt- and dehydration-inducible pea gene, Cyp15a, encodes a cell-wall protein with sequence similarity to cysteine proteases. Plant Molecular Biology, 1995, 28, 1055-1065.	2.0	62
72	Reduction of Turgor Induces Rapid Changes in Leaf Translatable RNA. Plant Physiology, 1988, 88, 401-408.	2.3	61

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73	The life history and ecology of the snow alga Chloromonas cryophila sp. nov. (Chlorophyta,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.6	60
74	Cryptochrome 1, Cryptochrome 2, and Phytochrome A Co-Activate the Chloroplast psbD Blue Lightâ€“Responsive Promoter. Plant Cell, 2001, 13, 2747-2760.	3.1	60
75	Water deficit modulates gene expression in growing zones of soybean seedlings. Analysis of differentially expressed cDNAs, a new ?-tubulin gene, and expression of genes encoding cell wall proteins. Plant Molecular Biology, 1991, 17, 591-608.	2.0	54
76	Sequence-based alignment of sorghum chromosome 3 and rice chromosome 1 reveals extensive conservation of gene order and one major chromosomal rearrangement. Plant Journal, 2003, 34, 605-621.	2.8	54
77	Nanoscale Structural Organization of Plant Epicuticular Wax Probed by Atomic Force Microscope Infrared Spectroscopy. Analytical Chemistry, 2019, 91, 2472-2479.	3.2	53
78	Detailed Architecture of the Barley ChloroplastpsbD-psbC Blue Light-responsive Promoter. Journal of Biological Chemistry, 1999, 274, 4684-4692.	1.6	52
79	Digital genotyping of sorghum â€“ a diverse plant species with a large repeat-rich genome. BMC Genomics, 2013, 14, 448.	1.2	51
80	Sorghum bicolor â€” an important species for comparative grass genomics and a source of beneficial genes for agriculture. Current Opinion in Plant Biology, 2002, 5, 118-121.	3.5	50
81	Dynamics of gene expression during development and expansion of vegetative stem internodes of bioenergy sorghum. Biotechnology for Biofuels, 2017, 10, 159.	6.2	50
82	Extensive Variation in the Density and Distribution of DNA Polymorphism in Sorghum Genomes. PLoS ONE, 2013, 8, e79192.	1.1	49
83	Characterization of P. sativum chloroplast psbA transcripts produced in vivo, in vitro and in E. coli. Plant Molecular Biology, 1986, 6, 229-243.	2.0	48
84	Opportunities to Improve Adaptability and Yield in Grasses. Crop Science, 2002, 42, 1791-1799.	0.8	46
85	Homeodomain Leucine Zipper Proteins Bind to the Phosphate Response Domain of the Soybean VspB Tripartite Promoter. Plant Physiology, 2001, 125, 797-809.	2.3	44
86	The sequence of the maize plastid encodedrpl23 locus. Nucleic Acids Research, 1988, 16, 8184-8184.	6.5	40
87	[45] In Vitro reconstitution of synthesis, uptake, and assembly of cytoplasmically synthesized chloroplast proteins. Methods in Enzymology, 1983, 97, 502-509.	0.4	39
88	Chloromonas nivalis (Chod.) Hoh. & Mull. comb. nov., and additional comments on the snow alga, Scotiella. Phycologia, 1978, 17, 106-107.	0.6	38
89	Molecular Cytogenetic Maps of Sorghum Linkage Groups 2 and 8. Genetics, 2005, 169, 955-965.	1.2	38
90	Detection of Endogenous Gibberellins and Their Relationship to Hypocotyl Elongation in Soybean Seedlings. Plant Physiology, 1990, 94, 77-84.	2.3	37

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91	Discovery of a Dhurrin QTL in Sorghum: Coâ€localization of Dhurrin Biosynthesis and a Novel Stayâ€green QTL. Crop Science, 2016, 56, 104-112.	0.8	34
92	Energy sorghum hybrids: Functional dynamics of high nitrogen use efficiency. Biomass and Bioenergy, 2013, 56, 307-316.	2.9	33
93	Maturity2, a novel regulator of flowering time in Sorghum bicolor, increases expression of SbPRR37 and SbCO in long days delaying flowering. PLoS ONE, 2019, 14, e0212154.	1.1	33
94	ADP-Dependent Phosphorylation Regulates Association of a DNA-Binding Complex with the Barley Chloroplast psbDBlue-Light-Responsive Promoter1. Plant Physiology, 1999, 119, 663-670.	2.3	32
95	A Segment of the Apospory-Specific Genomic Region Is Highly Microsyntenic Not Only between the Apomicts Pennisetum squamulatum and Buffelgrass, But Also with a Rice Chromosome 11 Centromeric-Proximal Genomic Region Â. Plant Physiology, 2006, 140, 963-971.	2.3	32
96	Abscisic Acid Accumulates at Positive Turgor Potential in Excised Soybean Seedling Growing Zones. Plant Physiology, 1991, 95, 1209-1213.	2.3	31
97	Vir-115 gene product is required to stabilize D1 translation intermediates in chloroplasts. Plant Molecular Biology, 1994, 25, 459-467.	2.0	31
98	High-biomass C 4 grassesâ€"Filling the yield gap. Plant Science, 2017, 261, 10-17.	1.7	31
99	Phosphate Modulates Transcription of Soybean VspB and Other Sugar-Inducible Genes. Plant Cell, 1994, 6, 737.	3.1	30
100	RNA-binding proteins of 37/38 kDa bind specifically to the barley chloroplast psbA 3?-end untranslated RNA. Plant Molecular Biology, 1996, 30, 1195-1205.	2.0	30
101	Sorghum stem aerenchyma formation is regulated by <i>SbNAC_D</i> during internode development. Plant Direct, 2018, 2, e00085.	0.8	30
102	Developmental expression of a turgor-responsive gene that encodes an intrinsic membrane protein. Plant Molecular Biology, 1995, 28, 983-996.	2.0	29
103	Quantitative trait locus mapping of the transpiration ratio related to preflowering drought tolerance in sorghum (Sorghum bicolor). Functional Plant Biology, 2014, 41, 1049.	1.1	29
104	Resolution of Genetic Map Expansion Caused by Excess Heterozygosity in Plant Recombinant Inbred Populations. G3: Genes, Genomes, Genetics, 2014, 4, 1963-1969.	0.8	24
105	Variation in energy sorghum hybrid TX08001 biomass composition and lignin chemistry during development under irrigated and non-irrigated field conditions. PLoS ONE, 2018, 13, e0195863.	1.1	24
106	A Mechanism for Light-Induced Translation of the rbcL mRNA Encoding the Large Subunit of Ribulose-1,5-bisphosphate Carboxylase in Barley Chloroplasts. Plant and Cell Physiology, 2003, 44, 491-499.	1.5	23
107	Characterization and expression of rpoC2 in CMS and fertile lines of sorghum. Plant Molecular Biology, 1995, 28, 799-809.	2.0	22
108	Physical fractionation of sweet sorghum and forage/energy sorghum for optimal processing in a biorefinery. Industrial Crops and Products, 2018, 124, 607-616.	2.5	22

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109	Mapping genes on an integrated sorghum genetic and physical map using cDNA selection technology. Plant Journal, 2001, 27, 243-255.	2.8	21
110	Targeted Analysis of Orthologous Phytochrome A Regions of the Sorghum, Maize, and Rice Genomes using Comparative Gene-Island Sequencing. Plant Physiology, 2002, 130, 1614-1625.	2.3	21
111	Localization of the genes coding for the 51 kDa PSII chlorophyll apoprotein, apocytochrome b6, the 65?70 kDa PSI chlorophyll apoproteins and the 44 kDa PSII chlorophyll apoprotein in pea chloroplast DNA. Plant Molecular Biology, 1986, 6, 125-134.	2.0	20
112	Developmental dynamics of stem starch accumulation in <i>Sorghum bicolor</i>. Plant Direct, 2018, 2, e00074.	0.8	19
113	Low-field magnetic resonance imaging of roots in intact clayey and silty soils. Geoderma, 2020, 370, 114356.	2.3	19
114	Phylogenetic Analysis of 5â€²-Noncoding Regions From the ABA-Responsive rab16/17 Gene Family of Sorghum, Maize and Rice Provides Insight Into the Composition, Organization and Function of cis-Regulatory ModulesSequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession no. AY177889.. Genetics, 2004, 168, 1639-1654.	1.2	17
115	Bioenergy Sorghum Crop Model Predicts VPD-Limited Transpiration Traits Enhance Biomass Yield in Water-Limited Environments. Frontiers in Plant Science, 2017, 8, 335.	1.7	17
116	Plastid DNA synthesis and nucleic acid-binding proteins in developing barley chloroplasts. Journal of Photochemistry and Photobiology B: Biology, 1991, 11, 203-218.	1.7	12
117	High Throughput BAC DNA Isolation for Physical Map Construction of Sorghum (Sorghum bicolor). Plant Molecular Biology Reporter, 1998, 16, 351-364.	1.0	12
118	The AGCVIII kinase Dw2 modulates cell proliferation, endomembrane trafficking, and MLG/xylan cell wall localization in elongating stem internodes of <i>Sorghum bicolor</i>. Plant Journal, 2021, 105, 1053-1071.	2.8	11
119	The genetic architecture of biomechanical traits in sorghum. Crop Science, 2020, 60, 82-99.	0.8	10
120	Regulation of dhurrin pathway gene expression during SorghumÂbicolor development. Planta, 2021, 254, 119.	1.6	9
121	Ruggedized, field-ready snapshot light-guide-based imaging spectrometer for environmental and remote sensing applications. Optics Express, 2022, 30, 10614.	1.7	9
122	Shade signals alter the expression of circadian clock genes in newlyâ€formed bioenergy sorghum internodes. Plant Direct, 2020, 4, e00235.	0.8	8
123	Integration of Pretreatment With Simultaneous Counter-Current Extraction of Energy Sorghum for High-Titer Mixed Sugar Production. Frontiers in Energy Research, 2019, 6, .	1.2	7
124	Leaves Segmentation in 3D Point Cloud. Lecture Notes in Computer Science, 2017, , 664-674.	1.0	6
125	Phytochrome B and shade signals regulate phytochrome A expression. Physiologia Plantarum, 2006, 127, 326-338.	2.6	5
126	Traits and Genes for Plant Drought Tolerance. Biotechnology in Agriculture and Forestry, 2009, , 55-64.	0.2	5

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127	High planting density induces the expression of GA3-oxidase in leaves and GA mediated stem elongation in bioenergy sorghum. Scientific Reports, 2021, 11, 46.	1.6	3
128	Bioenergy sorghumâ€™s deep roots: A key to sustainable biomass production on annual cropland. GCB Bioenergy, 2022, 14, 132-156.	2.5	3