Gautam Sarath

List of Publications by Year
in descending order

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173 papers	7,667 citations	41339 49 h-index	64791 79 g-index
177 all docs	177 docs citations	177 times ranked	7231 citing authors

#	Article	IF	Citations
1	Chemical composition and response to dilute-acid pretreatment and enzymatic saccharification of alfalfa, reed canarygrass, and switchgrass. Biomass and Bioenergy, 2006, 30, 880-891.	5.7	440
2	Production of butanol (a biofuel) from agricultural residues: Part II â€“ Use of corn stover and switchgrass hydrolysatesâ†. Biomass and Bioenergy, 2010, 34, 566-571.	5.7	271
3	Improved Sugar Conversion and Ethanol Yield for Forage Sorghum (Sorghum bicolor L. Moench) Lines with Reduced Lignin Contents. Bioenergy Research, 2009, 2, 153-164.	3.9	198
4	A Nonsense Mutation in a Cinnamyl Alcohol Dehydrogenase Gene Is Responsible for the Sorghum brown midrib6 Phenotype Â Â. Plant Physiology, 2009, 150, 584-595.	4.8	175
5	Crystal structure of a nonsymbiotic plant hemoglobin. Structure, 2000, 8, 1005-1014.	3.3	164
6	Managing and enhancing switchgrass as a bioenergy feedstock. Biofuels, Bioproducts and Biorefining, 2008, 2, 530-539.	3.7	160
7	Soybean Glycinin G1 Acidic Chain Shares IgE Epitopes with Peanut Allergen Ara h 3. International Archives of Allergy and Immunology, 2000, 123, 299-307.	2.1	156
8	The Arabidopsis homolog of trithorax, ATX1, binds phosphatidylinositol 5-phosphate, and the two regulate a common set of target genes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6049-6054.	7.1	151
9	Reactive oxygen species, ABA and nitric oxide interactions on the germination of warm-season C4-grasses. Planta, 2007, 226, 697-708.	3.2	144
10	Downregulation of Cinnamyl-Alcohol Dehydrogenase in Switchgrass by RNA Silencing Results in Enhanced Glucose Release after Cellulase Treatment. PLoS ONE, 2011, 6, e16416.	2.5	141
11	Characterization of recombinant soybean leghemoglobin a and apolar distal histidine mutants. Journal of Molecular Biology, 1997, 266, 1032-1042.	4.2	133
12	Opportunities and roadblocks in utilizing forages and small grains for liquid fuels. Journal of Industrial Microbiology and Biotechnology, 2008, 35, 343-354.	3.0	128
13	Activation of the Oryza sativa non-symbiotic haemoglobin-2 promoter by the cytokinin-regulated transcription factor, ARR1. Journal of Experimental Botany, 2004, 55, 1721-1731.	4.8	125
14	Nitric oxide accelerates seed germination in warm-season grasses. Planta, 2006, 223, 1154-1164.	3.2	121
15	Review: Correlations between oxygen affinity and sequence classifications of plant hemoglobins. Biopolymers, 2009, 91, 1083-1096.	2.4	120
16	Modifying crops to increase cell wall digestibility. Plant Science, 2012, 185-186, 65-77.	3.6	119
17	Overexpression of SbMyb60 impacts phenylpropanoid biosynthesis and alters secondary cell wall composition in Sorghum bicolor. Plant Journal, 2016, 85, 378-395.	5.7	119
18	Plant Tolerance: A Unique Approach to Control Hemipteran Pests. Frontiers in Plant Science, 2016, 7, 1363.	3.6	114

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19	Plant Hemoglobins. Plant Physiology, 1998, 118, 1121-1125.	4.8	113
20	Oxidative Responses of Resistant and Susceptible Cereal Leaves to Symptomatic and Nonsymptomatic Cereal Aphid (Hemiptera: Aphididae) Feeding. Journal of Economic Entomology, 2001, 94, 743-751.	1.8	106
21	Rice Ovate Family Protein 2 (OFP2) alters hormonal homeostasis and vasculature development. Plant Science, 2015, 241, 177-188.	3.6	106
22	Lysine residues in N-terminal and C-terminal regions of human histone H2A are targets for biotinylation by biotinidase. Journal of Nutritional Biochemistry, 2006, 17, 225-233.	4.2	94
23	K8 and K12 are biotinylated in human histone H4. FEBS Journal, 2004, 271, 2257-2263.	0.2	93
24	Roles for nutrients in epigenetic events. Journal of Nutritional Biochemistry, 2005, 16, 74-77.	4.2	89
25	Characterization of peroxidase changes in resistant and susceptible warm-season turfgrasses challenged by Blissus occiduus. Arthropod-Plant Interactions, 2010, 4, 45-55.	1.1	89
26	Genetic background impacts soluble and cell wall-bound aromatics in brown midrib mutants of sorghum. Planta, 2008, 229, 115-127.	3.2	84
27	Functional characterization of cinnamyl alcohol dehydrogenase and caffeic acid O-methyltransferase in Brachypodium distachyon. BMC Biotechnology, 2013, 13, 61.	3.3	84
28	Slow Ligand Binding Kinetics Dominate Ferrous Hexacoordinate Hemoglobin Reactivities and Reveal Differences between Plants and Other Speciesâ€. Biochemistry, 2006, 45, 561-570.	2.5	78
29	Characterization of Oxidative Enzyme Changes in Buffalograsses Challenged by Blissus occiduus. Journal of Economic Entomology, 2004, 97, 1086-1095.	1.8	76
30	K4, K9 and K18 in human histone H3 are targets for biotinylation by biotinidase. FEBS Journal, 2005, 272, 4249-4259.	4.7	75
31	Chloroplast Genome Variation in Upland and Lowland Switchgrass. PLoS ONE, 2011, 6, e23980.	2.5	75
32	Enhancing alfalfa conversion efficiencies for sugar recovery and ethanol production by altering lignin composition. Bioresource Technology, 2011, 102, 6479-6486.	9.6	75
33	Functional Characterization and Expression of a Cytosolic Iron-Superoxide Dismutase from Cowpea Root Nodules,. Plant Physiology, 2003, 133, 773-782.	4.8	74
34	K12-biotinylated histone H4 marks heterochromatin in human lymphoblastoma cells. Journal of Nutritional Biochemistry, 2007, 18, 760-768.	4.2	71
35	The role of acid phosphatases in plant phosphorus metabolism. Physiologia Plantarum, 1994, 90, 791-800.	5.2	71
36	Identification of IgE-Binding Proteins in Soy Lecithin. International Archives of Allergy and Immunology, 2001, 126, 218-225.	2.1	69

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37	Pyruvate,Orthophosphate Dikinase in Leaves and Chloroplasts of C3 Plants Undergoes Light-/Dark-Induced Reversible Phosphorylation. Plant Physiology, 2002, 128, 1368-1378.	4.8	69
38	Identification and Characterization of Four Missense Mutations in Brown midrib 12 (Bmr12), the Caffeic O-Methyltranferase (COMT) of Sorghum. Bioenergy Research, 2012, 5, 855-865.	3.9	66
39	Reversible denaturation of the soybean Kunitz trypsin inhibitor. Archives of Biochemistry and Biophysics, 2003, 412, 20-26.	3.0	65
40	The WRKY transcription factor family and senescence in switchgrass. BMC Genomics, 2015, 16, 912.	2.8	62
41	12-Oxo-Phytodienoic Acid Acts as a Regulator of Maize Defense against Corn Leaf Aphid. Plant Physiology, 2019, 179, 1402-1415.	4.8	61
42	Senescence, dormancy and tillering in perennial C4 grasses. Plant Science, 2014, 217-218, 140-151.	3.6	60
43	Soybean Nodule Sucrose Synthase (Nodulin-100): Further Analysis of Its Phosphorylation Using Recombinant and Authentic Root-Nodule Enzymes. Archives of Biochemistry and Biophysics, 1999, 371, 70-82.	3.0	58
44	Internode structure and cell wall composition in maturing tillers of switchgrass (Panicum virgatum.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	9.6	58
45	Dynamic change in photosynthetic pigments and chlorophyll degradation elicited by cereal aphid feeding. Entomologia Experimentalis Et Applicata, 2002, 105, 43-53.	1.4	57
46	Comparative Genomics in Switchgrass Using 61,585 Highâ€Quality Expressed Sequence Tags. Plant Genome, 2008, 1, .	2.8	57
47	In Vivo and in Vitro Phosphorylation of Membrane and Soluble Forms of Soybean Nodule Sucrose Synthase. Plant Physiology, 2002, 129, 1664-1673.	4.8	56
48	Synthesis of hemoglobins in rice (Oryza sativa var. Jackson) plants growing in normal and stress conditions. Plant Science, 2001, 161, 279-287.	3.6	53
49	Transcriptional analysis of defense mechanisms in upland tetraploid switchgrass to greenbugs. BMC Plant Biology, 2017, 17, 46.	3.6	53
50	Switchgrass (Panicum virgatum L) flag leaf transcriptomes reveal molecular signatures of leaf development, senescence, and mineral dynamics. Functional and Integrative Genomics, 2015, 15, 1-16.	3.5	52
51	Plant hemoglobins: a journey from unicellular green algae to vascular plants. New Phytologist, 2020, 227, 1618-1635.	7.3	52
52	Identification and analysis of a conserved immunoglobulin E-binding epitope in soybean G1a and G2a and peanut Ara h 3 glycinins. Archives of Biochemistry and Biophysics, 2002, 408, 51-57.	3.0	51
53	Analysis of expressed sequence tags and the identification of associated short tandem repeats in switchgrass. Theoretical and Applied Genetics, 2005, 111, 956-964.	3.6	50
54	Characterization of Oxidative Enzyme Changes in Buffalograsses Challenged by <I>Blissus occiduus</I>. Journal of Economic Entomology, 2004, 97, 1086-1095.	1.8	49

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55	The pyruvate, orthophosphate dikinase regulatory proteins of Arabidopsis possess a novel, unprecedented Ser/Thr protein kinase primary structure. Plant Journal, 2008, 53, 854-863.	5.7	48
56	Ethanol yields and cell wall properties in divergently bred switchgrass genotypes. Bioresource Technology, 2011, 102, 9579-9585.	9.6	45
57	Mycobacterium smegmatis l -Alanine Dehydrogenase (Ald) Is Required for Proficient Utilization of Alanine as a Sole Nitrogen Source and Sustained Anaerobic Growth. Journal of Bacteriology, 2002, 184, 5001-5010.	2.2	44
58	Microwave pretreatment effects on switchgrass and miscanthus solubilization in subcritical water and hydrolysate utilization for hydrogen production. Biomass and Bioenergy, 2018, 108, 48-54.	5.7	44
59	Global Responses of Resistant and Susceptible Sorghum (Sorghum bicolor) to Sugarcane Aphid (Melanaphis sacchari). Frontiers in Plant Science, 2019, 10, 145.	3.6	44
60	Characterization of Class III Peroxidases from Switchgrass. Plant Physiology, 2017, 173, 417-433.	4.8	43
61	Overexpression of SbMyb60 in Sorghum bicolor impacts both primary and secondary metabolism. New Phytologist, 2018, 217, 82-104.	7.3	42
62	TNT biotransformation and detoxification by a Pseudomonas aeruginosa strain. Biodegradation, 2003, 14, 309-319.	3.0	41
63	C-Terminal 23ï¿½kDa polypeptide of soybean Glyï¿½mï¿½Bd 28ï¿½K is a potential allergen. Planta, 2004, 220, 563.	3.3	40
64	Prokaryotic BirA ligase biotinylates K4, K9, K18 and K23 in histone H3. BMB Reports, 2008, 41, 310-315.	2.4	40
65	Estrogen receptor-alpha populations change with age in commercial laying hens. Poultry Science, 2003, 82, 1624-1629.	3.4	39
66	Genic microsatellite markers derived from EST sequences of switchgrass (Panicum virgatum L.). Molecular Ecology Notes, 2006, 6, 185-187.	1.7	38
67	Two distinct waxy alleles impact the granule-bound starch synthase in sorghum. Molecular Breeding, 2009, 24, 349-359.	2.1	38
68	Further Analysis of Maize C4 Pyruvate,Orthophosphate Dikinase Phosphorylation by Its Bifunctional Regulatory Protein Using Selective Substitutions of the Regulatory Thr-456 and Catalytic His-458 Residues. Archives of Biochemistry and Biophysics, 2000, 375, 165-170.	3.0	37
69	In vitro enzymatic chlorophyll catabolism in wheat elicited by cereal aphid feeding. Entomologia Experimentalis Et Applicata, 2001, 101, 159-166.	1.4	36
70	Molecular Cloning of the Cowpea Leghemoglobin II Gene and Expression of Its cDNA in Escherichia coli (Purification and Characterization of the Recombinant Protein). Plant Physiology, 1997, 114, 493-500.	4.8	34
71	Biotinylation of K12 in Histone H4 Decreases in Response to DNA Double-Strand Breaks in Human JAr Choriocarcinoma Cells. Journal of Nutrition, 2005, 135, 2337-2342.	2.9	34
72	Seasonal switchgrass ecotype contributions to soil organic carbon, deep soil microbial community composition and rhizodeposit uptake during an extreme drought. Soil Biology and Biochemistry, 2017, 112, 191-203.	8.8	34

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73	Physiological responses of resistant and susceptible barley, Hordeum vulgare to the Russian wheat aphid, Diurpahis noxia (Mordvilko). Arthropod-Plant Interactions, 2009, 3, 233-240.	1.1	32
74	Tyrosine B10 Inhibits Stabilization of Bound Carbon Monoxide and Oxygen in Soybean Leghemoglobinâ€. Biochemistry, 2004, 43, 6241-6252.	2.5	31
75	Bacteroids Are Stable during Dark-Induced Senescence of Soybean Root Nodules. Plant Physiology, 1986, 82, 346-350.	4.8	29
76	Targeting of the soybean leghemoglobin to tobacco chloroplasts: effects on aerobic metabolism in transgenic plants. Plant Science, 2000, 155, 193-202.	3.6	27
77	Cell-Wall Composition and Accessibility to Hydrolytic Enzymes is Differentially Altered in Divergently Bred Switchgrass (Panicum virgatum L.) Genotypes. Applied Biochemistry and Biotechnology, 2008, 150, 1-14.	2.9	27
78	Next-Generation Sequencing of Crown and Rhizome Transcriptome from an Upland, Tetraploid Switchgrass. Bioenergy Research, 2012, 5, 649-661.	3.9	26
79	Peptide motif of the cattle MHC class I antigen BoLA-A11. Immunogenetics, 1995, 42, 302-3.	2.4	25
80	Molecular Cloning, Functional Characterization, and Subcellular Localization of Soybean Nodule Dihydrolipoamide Reductase,. Plant Physiology, 2002, 128, 300-313.	4.8	25
81	Physiological Responses of Resistant and Susceptible Buffalograsses to <I>Blissus Occiduus</I> (Hemiptera: Blissidae) Feeding. Journal of Economic Entomology, 2006, 99, 222-228.	1.8	25
82	Overexpression of the Sorghum bicolor SbCCoAOMT alters cell wall associated hydroxycinnamoyl groups. PLoS ONE, 2018, 13, e0204153.	2.5	25
83	Fall armyworm (Spodoptera frugiperda Smith) feeding elicits differential defense responses in upland and lowland switchgrass. PLoS ONE, 2019, 14, e0218352.	2.5	25
84	Cloning and expression analysis of hemoglobin genes from maize (Zea mays ssp. mays) and teosinte (Zea) Tj ETQq0 0 0 rgBT /Overlock	2.4	23
85	Mapping and analysis of a hemoglobin gene family from Oryza sativa. Plant Physiology and Biochemistry, 2002, 40, 199-202.	5.8	23
86	Cloning and characterization of a caesalpinoid (Chamaecrista fasciculata) hemoglobin: The structural transition from a nonsymbiotic hemoglobin to a leghemoglobin. Proteins: Structure, Function and Bioinformatics, 2008, 72, 252-260.	2.6	23
87	P39, a Novel Soybean Protein Allergen, Belongs to a Plant-Specific Protein Family and Is Present in Protein Storage Vacuoles. Journal of Agricultural and Food Chemistry, 2008, 56, 2266-2272.	5.2	23
88	Engineering Saccharomyces cerevisiae to produce feruloyl esterase for the release of ferulic acid from switchgrass. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 1961-1967.	3.0	23
89	Insect and plant-derived miRNAs in greenbug (Schizaphis graminum) and yellow sugarcane aphid (Sipha) Tj ETQq1 1 0.784314 rgBT /O	2.2	23
90	Physiological and Biochemical Responses of Resistant and Susceptible Wheat to Injury by Russian Wheat Aphid. Journal of Economic Entomology, 2007, 100, 1692-1703.	1.8	23

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91	TNT nitroreductase from a Pseudomonas aeruginosa strain isolated from TNT-contaminated soil. Soil Biology and Biochemistry, 2001, 33, 875-881.	8.8	22
92	Partial purification and characterization of a methyl-parathion resistance-associated general esterase in Diabrotica virgifera virgifera (Coleoptera: Chrysomelidae). Pesticide Biochemistry and Physiology, 2004, 78, 114-125.	3.6	22
93	Physiological Responses of Resistant and Susceptible Buffalograsses to Blissus Occiduus (Hemiptera:) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	22
94	Purification and characterization of a soybean cotyledon aminopeptidase. Plant Science, 1991, 75, 9-17.	3.6	21
95	Liquid chromatographyâ€“mass spectrometry investigation of enzyme-resistant xylooligosaccharide structures of switchgrass associated with ammonia pretreatment, enzymatic saccharification, and fermentation. Bioresource Technology, 2012, 110, 437-447.	9.6	21
96	Cloning and expression of an atrazine inducible cytochrome P450, CYP4G33, from Chironomus tentans (Diptera: Chironomidae). Pesticide Biochemistry and Physiology, 2007, 89, 104-110.	3.6	20
97	Analysis of peroxidase activity of rice (Oryza sativa) recombinant hemoglobin 1: Implications for in vivo function of hexacoordinate non-symbiotic hemoglobins in plants. Phytochemistry, 2010, 71, 21-26.	2.9	20
98	Switchgrass Contains Two Cinnamyl Alcohol Dehydrogenases Involved in Lignin Formation. Bioenergy Research, 2011, 4, 120-133.	3.9	20
99	Evaluation of Tetraploid Switchgrass (Poales: Poaceae) Populations for Host Suitability and Differential Resistance to Four Cereal Aphids. Journal of Economic Entomology, 2014, 107, 424-431.	1.8	20
100	Categories of Resistance to Greenbug and Yellow Sugarcane Aphid (Hemiptera: Aphididae) in Three Tetraploid Switchgrass Populations. Bioenergy Research, 2014, 7, 909-918.	3.9	20
101	Contrasting Metabolism in Perenniating Structures of Upland and Lowland Switchgrass Plants Late in the Growing Season. PLoS ONE, 2014, 9, e105138.	2.5	20
102	Chinch Bug (Hemiptera: Blissidae) Mouthpart Morphology, Probing Frequencies, and Locations on Resistant and Susceptible Germplasm. Journal of Economic Entomology, 2006, 99, 212-221.	1.8	20
103	Detection and purification of modified leghemoglobins from soybean root nodules. Plant Science, 1994, 100, 31-40.	3.6	19
104	Switchgrass. RSC Energy and Environment Series, 2010, , 341-380.	0.5	19
105	Switchgrass PviCAD1: Understanding Residues Important for Substrate Preferences and Activity. Applied Biochemistry and Biotechnology, 2012, 168, 1086-1100.	2.9	19
106	Evaluation of Greenbug and Yellow Sugarcane Aphid Feeding Behavior on Resistant and Susceptible Switchgrass Cultivars. Bioenergy Research, 2018, 11, 480-490.	3.9	19
107	Modeling the tertiary structure of a maize (Zea mays ssp. mays) non-symbiotic hemoglobin. Plant Physiology and Biochemistry, 2004, 42, 891-897.	5.8	18
108	Towards uncovering the roles of switchgrass peroxidases in plant processes. Frontiers in Plant Science, 2013, 4, 202.	3.6	18

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109	Interplay of phytohormones facilitate sorghum tolerance to aphids. Plant Molecular Biology, 2022, 109, 639-650.	3.9	18
110	Assessing modulation of stromal and thylakoid light-harvesting complex-II phosphatase activities with phosphopeptide substrates. Photosynthesis Research, 1995, 44, 107-115.	2.9	17
111	A single amino acid substitution in soybean VSP? increases its acid phosphatase activity nearly 20-fold. Planta, 2004, 219, 1071-1079.	3.2	17
112	High-Throughput Immunoblotting Identifies Biotin-Dependent Signaling Proteins in HepG2 Hepatocarcinoma Cells. Journal of Nutrition, 2005, 135, 1659-1666.	2.9	17
113	ABA, ROS and NO are Key Players During Switchgrass Seed Germination. Plant Signaling and Behavior, 2007, 2, 492-493.	2.4	17
114	Selective chemical oxidation and depolymerization of switchgrass (Panicum virgatum L.) xylan with oligosaccharide product analysis by mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 941-950.	1.5	17
115	Karyotype variation is indicative of subgenomic and ecotypic differentiation in switchgrass. BMC Plant Biology, 2012, 12, 117.	3.6	17
116	Immunodetection of Triticum mosaic virus by DAS- and DAC-ELISA using antibodies produced against coat protein expressed in Escherichia coli: Potential for high-throughput diagnostic methods. Journal of Virological Methods, 2013, 189, 196-203.	2.1	17
117	Global changes in mineral transporters in tetraploid switchgrasses (Panicum virgatum L.). Frontiers in Plant Science, 2014, 4, 549.	3.6	17
118	Overexpression of ferulate 5-hydroxylase increases syringyl units in Sorghum bicolor. Plant Molecular Biology, 2020, 103, 269-285.	3.9	17
119	Purification and Characterization of a Soybean Root Nodule Phosphatase Expressed inPichia pastoris. Protein Expression and Purification, 1998, 14, 125-130.	1.3	16
120	Insect resistance of a full sib family of tetraploid switchgrass Panicum virgatum L. with varying lignin levels. Genetic Resources and Crop Evolution, 2013, 60, 975-984.	1.6	16
121	Transcriptome divergence during leaf development in two contrasting switchgrass (Panicum) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.5	16
122	Aphid-Responsive Defense Networks in Hybrid Switchgrass. Frontiers in Plant Science, 2020, 11, 1145.	3.6	16
123	Guard cell protoplasts contain acetylcholinesterase activity. Plant Science, 1995, 109, 119-127.	3.6	15
124	An avidin-based assay for histone debiotinylase activity in human cell nuclei. Journal of Nutritional Biochemistry, 2007, 18, 475-481.	4.2	14
125	Identification, characterization, and gene expression analysis of nucleotide binding site (NB)-type resistance gene homologues in switchgrass. BMC Genomics, 2016, 17, 892.	2.8	14
126	Characterization of Greenbug Feeding Behavior and Aphid (Hemiptera: Aphididae) Host Preference in Relation to Resistant and Susceptible Tetraploid Switchgrass Populations. Bioenergy Research, 2015, 8, 165-174.	3.9	13

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127	Seasonal belowâ€ground metabolism in switchgrass. Plant Journal, 2017, 92, 1059-1075.	5.7	13
128	Transcriptomic and volatile signatures associated with maize defense against corn leaf aphid. BMC Plant Biology, 2021, 21, 138.	3.6	13
129	Transcriptional Profiling of Resistant and Susceptible Buffalograsses in Response to Blissus occiduus (Hemiptera: Blissidae) Feeding. Journal of Economic Entomology, 2015, 108, 1354-1362.	1.8	12
130	Switchgrass ecotypes alter microbial contribution to deep-soilÂC. Soil, 2016, 2, 185-197.	4.9	12
131	Identification of an orthologous clade of peroxidases that respond to feeding by greenbugs (Schizaphis graminum) in C4 grasses. Functional Plant Biology, 2016, 43, 1134.	2.1	12
132	Structural Requirements for Phosphorylation of C4-Leaf Phosphoenolpyruvate Carboxylase by its Highly Regulated Protein-Serine Kinase. A Comparative Study with Synthetic-Peptide Substrates and Mutant Target Proteins. Functional Plant Biology, 1997, 24, 443.	2.1	12
133	Analysis of a ferric leghemoglobin reductase from cowpea (Vigna unguiculata) root nodules. Plant Science, 2000, 154, 161-170.	3.6	11
134	In silico analysis of a flavohemoglobin from Sinorhizobium meliloti strain 1021. Microbiological Research, 2003, 158, 215-227.	5.3	11
135	A Continuous, Quantitative Fluorescent Assay for Plant Caffeic Acid O-Methyltransferases. Journal of Agricultural and Food Chemistry, 2010, 58, 5220-5226.	5.2	11
136	Monitoring wheat mitochondrial compositional and respiratory changes using Fourier transform mid-infrared spectroscopy in response to agrochemical treatments. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 173, 727-732.	3.9	11
137	Biotinylation of K8 and K12 coâ€occurs with acetylation and monoâ€methylation in human histone H4. FASEB Journal, 2006, 20, A610.	0.5	11
138	High-performance liquid chromatographic separation of leghemoglobins from soybean root nodules. Analytical Biochemistry, 1986, 154, 224-231.	2.4	10
139	Soybean root nodule ultrastructure during dark-induced stress and recovery. Protoplasma, 1986, 132, 69-75.	2.1	10
140	Penicillin-Binding Proteins in the Pathogenic Intestinal Spirochete Brachyspira pilosicoli. Antimicrobial Agents and Chemotherapy, 2005, 49, 1561-1563.	3.2	9
141	Abolishing activity against ascorbate in a cytosolic ascorbate peroxidase from switchgrass. Phytochemistry, 2013, 94, 45-52.	2.9	9
142	Genetic Parameters and Prediction of Breeding Values in Switchgrass Bred for Bioenergy. Crop Science, 2017, 57, 1464-1474.	1.8	9
143	Persistence of rye (Secale cereale L.) chromosome arm 1RS in wheat (Triticum aestivum L.) breeding programs of the Great Plains of North America. Genetic Resources and Crop Evolution, 2019, 66, 941-950.	1.6	9
144	Proteomic Responses of Switchgrass and Prairie Cordgrass to Senescence. Frontiers in Plant Science, 2016, 7, 293.	3.6	8

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145	Dephosphorylation of the thylakoid membrane light-harvesting complex-II by a stromal protein phosphatase. Photosynthesis Research, 1995, 45, 195-201.	2.9	7
146	Biotinyl-methyl 4-(amidomethyl)benzoate is a competitive inhibitor of human biotinidase. Journal of Nutritional Biochemistry, 2008, 19, 826-832.	4.2	7
147	Characterization of the Arthropod Community Associated with Switchgrass (Poales: Poaceae) in Nebraska. Journal of the Kansas Entomological Society, 2011, 84, 87-104.	0.2	7
148	Comparative Analysis of End Point Enzymatic Digests of Arabino-Xylan Isolated from Switchgrass (Panicum virgatum L) of Varying Maturities using LC-MSn. Metabolites, 2012, 2, 959-982.	2.9	7
149	Morphology and Proteome Characterization of the Salivary Glands of the Western Chinch Bug (Hemiptera: Blissidae). Journal of Economic Entomology, 2015, 108, 2055-2064.	1.8	7
150	Generation of Octaploid Switchgrass by Seedling Treatment with Mitotic Inhibitors. Bioenergy Research, 2017, 10, 344-352.	3.9	7
151	Greenbug (Schizaphis graminum) herbivory significantly impacts protein and phosphorylation abundance in switchgrass (Panicum virgatum). Scientific Reports, 2020, 10, 14842.	3.3	7
152	A simple, single-tube radioisotopic assay for the phosphorylation/inactivation activity of the pyruvate,orthophosphate dikinase regulatory protein. Photosynthesis Research, 1994, 40, 295-301.	2.9	6
153	Enhanced metabolism and selection of pyrethroid-resistant western corn rootworms (Diabrotica) Tj ETQq1 1 0.784314 rgBT /Overloc	3.6	6
154	Rice (Oryza) hemoglobins. F1000Research, 2014, 3, 253.	1.6	6
155	Molecular cloning, functional characterization, and subcellular localization of soybean nodule dihydrolipoamide reductase. Plant Physiology, 2002, 128, 300-13.	4.8	6
156	A Two-Amino Acid Difference in the Coat Protein of Satellite panicum mosaic virus Isolates Is Responsible for Differential Synergistic Interactions with Panicum mosaic virus. Molecular Plant-Microbe Interactions, 2019, 32, 479-490.	2.6	5
157	Differential Defense Responses of Upland and Lowland Switchgrass Cultivars to a Cereal Aphid Pest. International Journal of Molecular Sciences, 2020, 21, 7966.	4.1	5
158	Rice (Oryza) hemoglobins. F1000Research, 2014, 3, 253.	1.6	5
159	Job compensation in the biotechnology core laboratory. Nature Biotechnology, 2000, 18, 686-689.	17.5	3
160	Purification and characterization of acylation stimulating protein from porcine serum. Protein Expression and Purification, 2002, 25, 348-352.	1.3	3
161	Mineral Element Analyses of Switchgrass Biomass: Comparison of the Accuracy and Precision of Laboratories. Agronomy Journal, 2017, 109, 735-738.	1.8	3
162	Divergent Switchgrass Cultivars Modify Cereal Aphid Transcriptomes. Journal of Economic Entomology, 2019, 112, 1887-1901.	1.8	3

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163	Genetic (co)variation and accuracy of selection for resistance to viral mosaic disease and production traits in an interâ€ecotypic switchgrass breeding population. Crop Science, 2021, 61, 1652-1665.	1.8	3
164	Predicting the field establishment of perennial grass feedstocks: progress made and challenges ahead. Biofuels, 2012, 3, 653-656.	2.4	1
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