

Gautam Sarath

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3901870/gautam-sarath-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

170 papers	6,080 citations	45 h-index	71 g-index
177 ext. papers	6,959 ext. citations	4.6 avg, IF	5.41 L-index

#	Paper	IF	Citations
170	Chemical composition and response to dilute-acid pretreatment and enzymatic saccharification of alfalfa, reed canarygrass, and switchgrass. <i>Biomass and Bioenergy</i> , 2006 , 30, 880-891	5.3	376
169	Production of butanol (a biofuel) from agricultural residues: Part II Use of corn stover and switchgrass hydrolysates?. <i>Biomass and Bioenergy</i> , 2010 , 34, 566-571	5.3	245
168	Improved Sugar Conversion and Ethanol Yield for Forage Sorghum (<i>Sorghum bicolor</i> L. Moench) Lines with Reduced Lignin Contents. <i>Bioenergy Research</i> , 2009 , 2, 153-164	3.1	174
167	Crystal structure of a nonsymbiotic plant hemoglobin. <i>Structure</i> , 2000 , 8, 1005-14	5.2	148
166	A nonsense mutation in a cinnamyl alcohol dehydrogenase gene is responsible for the Sorghum brown midrib6 phenotype. <i>Plant Physiology</i> , 2009 , 150, 584-95	6.6	139
165	Soybean glycinin G1 acidic chain shares IgE epitopes with peanut allergen Ara h 3. <i>International Archives of Allergy and Immunology</i> , 2000 , 123, 299-307	3.7	131
164	Downregulation of cinnamyl-alcohol dehydrogenase in switchgrass by RNA silencing results in enhanced glucose release after cellulase treatment. <i>PLoS ONE</i> , 2011 , 6, e16416	3.7	126
163	Characterization of recombinant soybean leghemoglobin a and apolar distal histidine mutants. <i>Journal of Molecular Biology</i> , 1997 , 266, 1032-42	6.5	122
162	Reactive oxygen species, ABA and nitric oxide interactions on the germination of warm-season C4-grasses. <i>Planta</i> , 2007 , 226, 697-708	4.7	122
161	Managing and enhancing switchgrass as a bioenergy feedstock. <i>Biofuels, Bioproducts and Biorefining</i> , 2008 , 2, 530-539	5.3	117
160	The Arabidopsis homolog of trithorax, ATX1, binds phosphatidylinositol 5-phosphate, and the two regulate a common set of target genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 6049-54	11.5	117
159	Opportunities and roadblocks in utilizing forages and small grains for liquid fuels. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008 , 35, 343-354	4.2	116
158	Nitric oxide accelerates seed germination in warm-season grasses. <i>Planta</i> , 2006 , 223, 1154-64	4.7	110
157	Review: correlations between oxygen affinity and sequence classifications of plant hemoglobins. <i>Biopolymers</i> , 2009 , 91, 1083-96	2.2	107
156	Plant hemoglobins. <i>Plant Physiology</i> , 1998 , 118, 1121-5	6.6	102
155	Modifying crops to increase cell wall digestibility. <i>Plant Science</i> , 2012 , 185-186, 65-77	5.3	95
154	Activation of the <i>Oryza sativa</i> non-symbiotic haemoglobin-2 promoter by the cytokinin-regulated transcription factor, ARR1. <i>Journal of Experimental Botany</i> , 2004 , 55, 1721-31	7	95

153	K8 and K12 are biotinylated in human histone H4. <i>FEBS Journal</i> , 2004 , 271, 2257-63		84
152	Lysine residues in N-terminal and C-terminal regions of human histone H2A are targets for biotinylation by biotinidase. <i>Journal of Nutritional Biochemistry</i> , 2006 , 17, 225-33	6.3	81
151	Oxidative responses of resistant and susceptible cereal leaves to symptomatic and nonsymptomatic cereal aphid (Hemiptera: Aphididae) feeding. <i>Journal of Economic Entomology</i> , 2001 , 94, 743-51	2.2	77
150	Genetic background impacts soluble and cell wall-bound aromatics in brown midrib mutants of sorghum. <i>Planta</i> , 2008 , 229, 115-27	4.7	76
149	Roles for nutrients in epigenetic events. <i>Journal of Nutritional Biochemistry</i> , 2005 , 16, 74-7	6.3	76
148	K4, K9 and K18 in human histone H3 are targets for biotinylation by biotinidase. <i>FEBS Journal</i> , 2005 , 272, 4249-59	5.7	70
147	Enhancing alfalfa conversion efficiencies for sugar recovery and ethanol production by altering lignin composition. <i>Bioresource Technology</i> , 2011 , 102, 6479-86	11	68
146	Functional characterization of cinnamyl alcohol dehydrogenase and caffeic acid O-methyltransferase in <i>Brachypodium distachyon</i> . <i>BMC Biotechnology</i> , 2013 , 13, 61	3.5	67
145	K12-biotinylated histone H4 marks heterochromatin in human lymphoblastoma cells. <i>Journal of Nutritional Biochemistry</i> , 2007 , 18, 760-8	6.3	64
144	Functional characterization and expression of a cytosolic iron-superoxide dismutase from cowpea root nodules. <i>Plant Physiology</i> , 2003 , 133, 773-82	6.6	64
143	Slow ligand binding kinetics dominate ferrous hexacoordinate hemoglobin reactivities and reveal differences between plants and other species. <i>Biochemistry</i> , 2006 , 45, 561-70	3.2	63
142	Chloroplast genome variation in upland and lowland switchgrass. <i>PLoS ONE</i> , 2011 , 6, e23980	3.7	62
141	Characterization of oxidative enzyme changes in buffalograsses challenged by <i>Blissus occiduus</i> . <i>Journal of Economic Entomology</i> , 2004 , 97, 1086-95	2.2	62
140	Characterization of peroxidase changes in resistant and susceptible warm-season turfgrasses challenged by <i>Blissus occiduus</i> . <i>Arthropod-Plant Interactions</i> , 2010 , 4, 45-55	2.2	61
139	Pyruvate,orthophosphate dikinase in leaves and chloroplasts of C(3) plants undergoes light-/dark-induced reversible phosphorylation. <i>Plant Physiology</i> , 2002 , 128, 1368-78	6.6	61
138	Overexpression of SbMyb60 impacts phenylpropanoid biosynthesis and alters secondary cell wall composition in <i>Sorghum bicolor</i> . <i>Plant Journal</i> , 2016 , 85, 378-95	6.9	59
137	Identification of IgE-binding proteins in soy lecithin. <i>International Archives of Allergy and Immunology</i> , 2001 , 126, 218-25	3.7	58
136	Identification and Characterization of Four Missense Mutations in Brown midrib 12 (Bmr12), the Caffeic O-Methyltransferase (COMT) of Sorghum. <i>Bioenergy Research</i> , 2012 , 5, 855-865	3.1	56

135	Internode structure and cell wall composition in maturing tillers of switchgrass (<i>Panicum virgatum</i> L). <i>Bioresource Technology</i> , 2007 , 98, 2985-92	11	55
134	Soybean nodule sucrose synthase (nodulin-100): further analysis of its phosphorylation using recombinant and authentic root-nodule enzymes. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 371, 70-82	4.1	53
133	Comparative Genomics in Switchgrass Using 61,585 High-Quality Expressed Sequence Tags. <i>Plant Genome</i> , 2008 , 1,	4.4	53
132	Plant Tolerance: A Unique Approach to Control Hemipteran Pests. <i>Frontiers in Plant Science</i> , 2016 , 7, 1363	6.2	53
131	Reversible denaturation of the soybean Kunitz trypsin inhibitor. <i>Archives of Biochemistry and Biophysics</i> , 2003 , 412, 20-6	4.1	51
130	In vivo and in vitro phosphorylation of membrane and soluble forms of soybean nodule sucrose synthase. <i>Plant Physiology</i> , 2002 , 129, 1664-73	6.6	50
129	Identification and analysis of a conserved immunoglobulin E-binding epitope in soybean G1a and G2a and peanut Ara h 3 glycinins. <i>Archives of Biochemistry and Biophysics</i> , 2002 , 408, 51-7	4.1	50
128	Synthesis of hemoglobins in rice (<i>Oryza sativa</i> var. Jackson) plants growing in normal and stress conditions. <i>Plant Science</i> , 2001 , 161, 279-287	5.3	49
127	Rice Ovate Family Protein 2 (OFP2) alters hormonal homeostasis and vasculature development. <i>Plant Science</i> , 2015 , 241, 177-88	5.3	47
126	Analysis of expressed sequence tags and the identification of associated short tandem repeats in switchgrass. <i>Theoretical and Applied Genetics</i> , 2005 , 111, 956-64	6	46
125	The WRKY transcription factor family and senescence in switchgrass. <i>BMC Genomics</i> , 2015 , 16, 912	4.5	45
124	Senescence, dormancy and tillering in perennial C4 grasses. <i>Plant Science</i> , 2014 , 217-218, 140-51	5.3	43
123	Ethanol yields and cell wall properties in divergently bred switchgrass genotypes. <i>Bioresource Technology</i> , 2011 , 102, 9579-85	11	43
122	The role of acid phosphatases in plant phosphorus metabolism. <i>Physiologia Plantarum</i> , 1994 , 90, 791-800.	4.6	39
121	The pyruvate, orthophosphate dikinase regulatory proteins of Arabidopsis possess a novel, unprecedented Ser/Thr protein kinase primary structure. <i>Plant Journal</i> , 2008 , 53, 854-63	6.9	38
120	Prokaryotic BirA ligase biotinylates K4, K9, K18 and K23 in histone H3. <i>BMB Reports</i> , 2008 , 41, 310-5	5.5	38
119	Characterization of Oxidative Enzyme Changes in Buffalograsses Challenged by <i>Blissus occiduus</i> . <i>Journal of Economic Entomology</i> , 2004 , 97, 1086-1095	2.2	37
118	Switchgrass (<i>Panicum virgatum</i> L) flag leaf transcriptomes reveal molecular signatures of leaf development, senescence, and mineral dynamics. <i>Functional and Integrative Genomics</i> , 2015 , 15, 1-16	3.8	36

117	Genic microsatellite markers derived from EST sequences of switchgrass (<i>Panicum virgatum</i> L.). <i>Molecular Ecology Notes</i> , 2006 , 6, 185-187		36
116	<i>Mycobacterium smegmatis</i> L-alanine dehydrogenase (Ald) is required for proficient utilization of alanine as a sole nitrogen source and sustained anaerobic growth. <i>Journal of Bacteriology</i> , 2002 , 184, 5001-10	3.5	36
115	Dynamic change in photosynthetic pigments and chlorophyll degradation elicited by cereal aphid feeding. <i>Entomologia Experimentalis Et Applicata</i> , 2002 , 105, 43-53	2.1	35
114	TNT biotransformation and detoxification by a <i>Pseudomonas aeruginosa</i> strain. <i>Biodegradation</i> , 2003 , 14, 309-19	4.1	33
113	C-Terminal 23 kDa polypeptide of soybean Gly m Bd 28 K is a potential allergen. <i>Planta</i> , 2004 , 220, 56-63	4.7	31
112	Microwave pretreatment effects on switchgrass and miscanthus solubilization in subcritical water and hydrolysate utilization for hydrogen production. <i>Biomass and Bioenergy</i> , 2018 , 108, 48-54	5.3	31
111	Biotinylation of K12 in histone H4 decreases in response to DNA double-strand breaks in human JAr choriocarcinoma cells. <i>Journal of Nutrition</i> , 2005 , 135, 2337-42	4.1	30
110	Further analysis of maize C(4) pyruvate, orthophosphate dikinase phosphorylation by its bifunctional regulatory protein using selective substitutions of the regulatory Thr-456 and catalytic His-458 residues. <i>Archives of Biochemistry and Biophysics</i> , 2000 , 375, 165-70	4.1	30
109	Molecular cloning of the cowpea leghemoglobin II gene and expression of its cDNA in <i>Escherichia coli</i> . Purification and characterization of the recombinant protein. <i>Plant Physiology</i> , 1997 , 114, 493-500	6.6	29
108	Estrogen receptor-alpha populations change with age in commercial laying hens. <i>Poultry Science</i> , 2003 , 82, 1624-9	3.9	29
107	Tyrosine B10 inhibits stabilization of bound carbon monoxide and oxygen in soybean leghemoglobin. <i>Biochemistry</i> , 2004 , 43, 6241-52	3.2	28
106	Characterization of Class III Peroxidases from Switchgrass. <i>Plant Physiology</i> , 2017 , 173, 417-433	6.6	27
105	Two distinct waxy alleles impact the granule-bound starch synthase in sorghum. <i>Molecular Breeding</i> , 2009 , 24, 349-359	3.4	27
104	Cell-wall composition and accessibility to hydrolytic enzymes is differentially altered in divergently bred switchgrass (<i>Panicum virgatum</i> L.) genotypes. <i>Applied Biochemistry and Biotechnology</i> , 2008 , 150, 1-14	3.2	27
103	12-Oxo-Phytodienoic Acid Acts as a Regulator of Maize Defense against Corn Leaf Aphid. <i>Plant Physiology</i> , 2019 , 179, 1402-1415	6.6	27
102	Bacteroids Are Stable during Dark-Induced Senescence of Soybean Root Nodules. <i>Plant Physiology</i> , 1986 , 82, 346-50	6.6	26
101	Transcriptional analysis of defense mechanisms in upland tetraploid switchgrass to greenbugs. <i>BMC Plant Biology</i> , 2017 , 17, 46	5.3	24
100	Plant hemoglobins: a journey from unicellular green algae to vascular plants. <i>New Phytologist</i> , 2020 , 227, 1618-1635	9.8	24

99	Physiological responses of resistant and susceptible barley, <i>Hordeum vulgare</i> to the Russian wheat aphid, <i>Diurpahis noxia</i> (Mordvilko). <i>Arthropod-Plant Interactions</i> , 2009 , 3, 233-240	2.2	24
98	Peptide motif of the cattle MHC class I antigen BoLA-A11. <i>Immunogenetics</i> , 1995 , 42, 302-3	3.2	24
97	Seasonal switchgrass ecotype contributions to soil organic carbon, deep soil microbial community composition and rhizodeposit uptake during an extreme drought. <i>Soil Biology and Biochemistry</i> , 2017 , 112, 191-203	7.5	23
96	Overexpression of SbMyb60 in <i>Sorghum bicolor</i> impacts both primary and secondary metabolism. <i>New Phytologist</i> , 2018 , 217, 82-104	9.8	23
95	Global Responses of Resistant and Susceptible <i>Sorghum</i> () to Sugarcane Aphid (). <i>Frontiers in Plant Science</i> , 2019 , 10, 145	6.2	22
94	Mapping and analysis of a hemoglobin gene family from <i>Oryza sativa</i> . <i>Plant Physiology and Biochemistry</i> , 2002 , 40, 199-202	5.4	22
93	In vitro enzymatic chlorophyll catabolism in wheat elicited by cereal aphid feeding. <i>Entomologia Experimentalis Et Applicata</i> , 2001 , 101, 159-166	2.1	22
92	Targeting of the soybean leghemoglobin to tobacco chloroplasts: effects on aerobic metabolism in transgenic plants. <i>Plant Science</i> , 2000 , 155, 193-202	5.3	22
91	Molecular Cloning, Functional Characterization, and Subcellular Localization of Soybean Nodule Dihydrolipoamide Reductase. <i>Plant Physiology</i> , 2002 , 128, 300-313	6.6	20
90	Liquid chromatography-mass spectrometry investigation of enzyme-resistant xylooligosaccharide structures of switchgrass associated with ammonia pretreatment, enzymatic saccharification, and fermentation. <i>Bioresource Technology</i> , 2012 , 110, 437-47	11	19
89	P39, a novel soybean protein allergen, belongs to a plant-specific protein family and is present in protein storage vacuoles. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 2266-72	5.7	19
88	Cloning and characterization of a caesalpinoid (<i>Chamaecrista fasciculata</i>) hemoglobin: the structural transition from a nonsymbiotic hemoglobin to a leghemoglobin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 72, 252-60	4.2	19
87	Physiological Responses of Resistant and Susceptible Buffalograsses to <i>Blissus Occiduus</i> (Hemiptera: Blissidae) Feeding. <i>Journal of Economic Entomology</i> , 2006 , 99, 222-228	2.2	19
86	TNT nitroreductase from a <i>Pseudomonas aeruginosa</i> strain isolated from TNT-contaminated soil. <i>Soil Biology and Biochemistry</i> , 2001 , 33, 875-881	7.5	19
85	Engineering <i>Saccharomyces cerevisiae</i> to produce feruloyl esterase for the release of ferulic acid from switchgrass. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2011 , 38, 1961-7	4.2	18
84	Partial purification and characterization of a methyl-parathion resistance-associated general esterase in <i>Diabrotica virgifera virgifera</i> (Coleoptera: Chrysomelidae). <i>Pesticide Biochemistry and Physiology</i> , 2004 , 78, 114-125	4.9	18
83	Insect and plant-derived miRNAs in greenbug (<i>Schizaphis graminum</i>) and yellow sugarcane aphid (<i>Sipha flava</i>) revealed by deep sequencing. <i>Gene</i> , 2017 , 599, 68-77	3.8	17
82	Towards uncovering the roles of switchgrass peroxidases in plant processes. <i>Frontiers in Plant Science</i> , 2013 , 4, 202	6.2	17

81	Selective chemical oxidation and depolymerization of switchgrass [corrected] (<i>Panicum virgatum</i> L.) xylan with [corrected] oligosaccharide product analysis by mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 941-50	2.2	17
80	Cloning and expression of an atrazine inducible cytochrome P450, CYP4G33, from <i>Chironomus tentans</i> (Diptera: Chironomidae). <i>Pesticide Biochemistry and Physiology</i> , 2007 , 89, 104-110	4.9	17
79	A single amino acid substitution in soybean VSPalpha increases its acid phosphatase activity nearly 20-fold. <i>Planta</i> , 2004 , 219, 1071-9	4.7	17
78	Modeling the tertiary structure of a maize (<i>Zea mays</i> ssp. <i>mays</i>) non-symbiotic hemoglobin. <i>Plant Physiology and Biochemistry</i> , 2004 , 42, 891-7	5.4	17
77	Assessing modulation of stromal and thylakoid light-harvesting complex-II phosphatase activities with phosphopeptide substrates. <i>Photosynthesis Research</i> , 1995 , 44, 107-15	3.7	17
76	Detection and purification of modified leghemoglobins from soybean root nodules. <i>Plant Science</i> , 1994 , 100, 31-40	5.3	17
75	Purification and characterization of a soybean cotyledon aminopeptidase. <i>Plant Science</i> , 1991 , 75, 9-17	5.3	17
74	Contrasting metabolism in perenniating structures of upland and lowland switchgrass plants late in the growing season. <i>PLoS ONE</i> , 2014 , 9, e105138	3.7	17
73	Physiological and biochemical responses of resistant and susceptible wheat to injury by Russian wheat aphid. <i>Journal of Economic Entomology</i> , 2007 , 100, 1692-703	2.2	17
72	Immunodetection of Triticum mosaic virus by DAS- and DAC-ELISA using antibodies produced against coat protein expressed in <i>Escherichia coli</i> : potential for high-throughput diagnostic methods. <i>Journal of Virological Methods</i> , 2013 , 189, 196-203	2.6	16
71	Switchgrass PviCAD1: understanding residues important for substrate preferences and activity. <i>Applied Biochemistry and Biotechnology</i> , 2012 , 168, 1086-100	3.2	16
70	Next-Generation Sequencing of Crown and Rhizome Transcriptome from an Upland, Tetraploid Switchgrass. <i>Bioenergy Research</i> , 2012 , 5, 649-661	3.1	16
69	Physiological responses of resistant and susceptible buffalograsses to <i>Blissus occiduus</i> (Hemiptera: Blissidae) feeding. <i>Journal of Economic Entomology</i> , 2006 , 99, 222-8	2.2	16
68	High-throughput immunoblotting identifies biotin-dependent signaling proteins in HepG2 hepatocarcinoma cells. <i>Journal of Nutrition</i> , 2005 , 135, 1659-66	4.1	16
67	Purification and characterization of a soybean root nodule phosphatase expressed in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 1998 , 14, 125-30	2	16
66	Analysis of peroxidase activity of rice (<i>Oryza sativa</i>) recombinant hemoglobin 1: implications for in vivo function of hexacoordinate non-symbiotic hemoglobins in plants. <i>Phytochemistry</i> , 2010 , 71, 21-6	4	15
65	Cloning and expression analysis of hemoglobin genes from maize (<i>Zea mays</i> ssp. <i>mays</i>) and teosinte (<i>Zea mays</i> ssp. <i>parviglumis</i>). <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2001 , 1522, 1-8		15
64	Karyotype variation is indicative of subgenomic and ecotypic differentiation in switchgrass. <i>BMC Plant Biology</i> , 2012 , 12, 117	5.3	14

63	Switchgrass Contains Two Cinnamyl Alcohol Dehydrogenases Involved in Lignin Formation. <i>Bioenergy Research</i> , 2011 , 4, 120-133	3.1	14
62	An avidin-based assay for histone deubiquitinylase activity in human cell nuclei. <i>Journal of Nutritional Biochemistry</i> , 2007 , 18, 475-81	6.3	14
61	Guard cell protoplasts contain acetylcholinesterase activity. <i>Plant Science</i> , 1995 , 109, 119-127	5.3	14
60	Chinch bug (Hemiptera: Blissidae) mouthpart morphology, probing frequencies, and locations on resistant and susceptible germplasm. <i>Journal of Economic Entomology</i> , 2006 , 99, 212-21	2.2	14
59	Global changes in mineral transporters in tetraploid switchgrasses (<i>Panicum virgatum</i> L.). <i>Frontiers in Plant Science</i> , 2014 , 4, 549	6.2	13
58	Insect resistance of a full sib family of tetraploid switchgrass <i>Panicum virgatum</i> L. with varying lignin levels. <i>Genetic Resources and Crop Evolution</i> , 2013 , 60, 975-984	2	13
57	Categories of Resistance to Greenbug and Yellow Sugarcane Aphid (Hemiptera: Aphididae) in Three Tetraploid Switchgrass Populations. <i>Bioenergy Research</i> , 2014 , 7, 909-918	3.1	12
56	Evaluation of tetraploid switchgrass (Poales: Poaceae) populations for host suitability and differential resistance to four cereal aphids. <i>Journal of Economic Entomology</i> , 2014 , 107, 424-31	2.2	12
55	Identification, characterization, and gene expression analysis of nucleotide binding site (NB)-type resistance gene homologues in switchgrass. <i>BMC Genomics</i> , 2016 , 17, 892	4.5	12
54	Overexpression of the Sorghum bicolor SbCCoAOMT alters cell wall associated hydroxycinnamoyl groups. <i>PLoS ONE</i> , 2018 , 13, e0204153	3.7	12
53	Characterization of Greenbug Feeding Behavior and Aphid (Hemiptera: Aphididae) Host Preference in Relation to Resistant and Susceptible Tetraploid Switchgrass Populations. <i>Bioenergy Research</i> , 2015 , 8, 165-174	3.1	11
52	ABA, ROS and NO are Key Players During Switchgrass Seed Germination. <i>Plant Signaling and Behavior</i> , 2007 , 2, 492-3	2.5	11
51	In silico analysis of a flavohemoglobin from <i>Sinorhizobium meliloti</i> strain 1021. <i>Microbiological Research</i> , 2003 , 158, 215-27	5.3	11
50	Biotinylation of K8 and K12 co-occurs with acetylation and mono-methylation in human histone H4. <i>FASEB Journal</i> , 2006 , 20, A610	0.9	11
49	Evaluation of Greenbug and Yellow Sugarcane Aphid Feeding Behavior on Resistant and Susceptible Switchgrass Cultivars. <i>Bioenergy Research</i> , 2018 , 11, 480-490	3.1	10
48	Chapter 17:Switchgrass. <i>RSC Energy and Environment Series</i> , 2010 , 341-380	0.6	10
47	A continuous, quantitative fluorescent assay for plant caffeic acid O-methyltransferases. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 5220-6	5.7	10
46	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. <i>Functional Plant Biology</i> , 1997 , 24, 443	2.7	10

45	Switchgrass ecotypes alter microbial contribution to deep-soil C. <i>Soil</i> , 2016 , 2, 185-197	5.8	10
44	Seasonal below-ground metabolism in switchgrass. <i>Plant Journal</i> , 2017 , 92, 1059-1075	6.9	9
43	Analysis of a ferric leghemoglobin reductase from cowpea (<i>Vigna unguiculata</i>) root nodules. <i>Plant Science</i> , 2000 , 154, 161-170	5.3	9
42	High-performance liquid chromatographic separation of leghemoglobins from soybean root nodules. <i>Analytical Biochemistry</i> , 1986 , 154, 224-31	3.1	8
41	Soybean root nodule ultrastructure during dark-induced stress and recovery. <i>Protoplasma</i> , 1986 , 132, 69-75	3.4	8
40	Fall armyworm (<i>Spodoptera frugiperda</i> Smith) feeding elicits differential defense responses in upland and lowland switchgrass. <i>PLoS ONE</i> , 2019 , 14, e0218352	3.7	7
39	Overexpression of ferulate 5-hydroxylase increases syringyl units in <i>Sorghum bicolor</i> . <i>Plant Molecular Biology</i> , 2020 , 103, 269-285	4.6	7
38	Genetic Parameters and Prediction of Breeding Values in Switchgrass Bred for Bioenergy. <i>Crop Science</i> , 2017 , 57, 1464-1474	2.4	7
37	Abolishing activity against ascorbate in a cytosolic ascorbate peroxidase from switchgrass. <i>Phytochemistry</i> , 2013 , 94, 45-52	4	7
36	Comparative Analysis of End Point Enzymatic Digests of Arabino-Xylan Isolated from Switchgrass (<i>Panicum virgatum</i> L) of Varying Maturities using LC-MSn. <i>Metabolites</i> , 2012 , 2, 959-82	5.6	7
35	Penicillin-binding proteins in the pathogenic intestinal spirochete <i>Brachyspira pilosicoli</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2005 , 49, 1561-3	5.9	7
34	Dephosphorylation of the thylakoid membrane light-harvesting complex-II by a stromal protein phosphatase. <i>Photosynthesis Research</i> , 1995 , 45, 195-201	3.7	7
33	Transcriptional Profiling of Resistant and Susceptible Buffalograsses in Response to <i>Blissus occiduus</i> (Hemiptera: Blissidae) Feeding. <i>Journal of Economic Entomology</i> , 2015 , 108, 1354-62	2.2	6
32	Characterization of the Arthropod Community Associated with Switchgrass (Poales: Poaceae) in Nebraska. <i>Journal of the Kansas Entomological Society</i> , 2011 , 84, 87-104	0.5	6
31	Morphology and Proteome Characterization of the Salivary Glands of the Western Chinch Bug (Hemiptera: Blissidae). <i>Journal of Economic Entomology</i> , 2015 , 108, 2055-64	2.2	5
30	Generation of Octaploid Switchgrass by Seedling Treatment with Mitotic Inhibitors. <i>Bioenergy Research</i> , 2017 , 10, 344-352	3.1	5
29	Biotinyl-methyl 4-(amidomethyl)benzoate is a competitive inhibitor of human biotinidase. <i>Journal of Nutritional Biochemistry</i> , 2008 , 19, 826-32	6.3	5
28	A simple, single-tube radioisotopic assay for the phosphorylation/inactivation activity of the pyruvate, orthophosphate dikinase regulatory protein. <i>Photosynthesis Research</i> , 1994 , 40, 295-301	3.7	5

27	Rice (Oryza) hemoglobins. <i>F1000Research</i> , 2014 , 3, 253	3.6	5
26	Molecular cloning, functional characterization, and subcellular localization of soybean nodule dihydrolipoamide reductase. <i>Plant Physiology</i> , 2002 , 128, 300-13	6.6	5
25	Interplay of phytohormones facilitate sorghum tolerance to aphids. <i>Plant Molecular Biology</i> , 2020 , 1	4.6	5
24	Proteomic Responses of Switchgrass and Prairie Cordgrass to Senescence. <i>Frontiers in Plant Science</i> , 2016 , 7, 293	6.2	5
23	Identification of an orthologous clade of peroxidases that respond to feeding by greenbugs (Schizaphis graminum) in C grasses. <i>Functional Plant Biology</i> , 2016 , 43, 1134-1148	2.7	5
22	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. <i>Molecular Plant-Microbe Interactions</i> , 2019 , 32, 479-490	3.6	5
21	Switchgrass Genetics and Breeding Challenges 2013 , 7-31		4
20	Monitoring wheat mitochondrial compositional and respiratory changes using Fourier transform mid-infrared spectroscopy in response to agrochemical treatments. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 173, 727-732	4.4	4
19	Rice (Oryza) hemoglobins. <i>F1000Research</i> , 2014 , 3, 253	3.6	4
18	Transcriptomic and volatile signatures associated with maize defense against corn leaf aphid. <i>BMC Plant Biology</i> , 2021 , 21, 138	5.3	4
17	Transcriptome divergence during leaf development in two contrasting switchgrass (Panicum virgatum L.) cultivars. <i>PLoS ONE</i> , 2019 , 14, e0222080	3.7	3
16	Persistence of rye (Secale cereale L.) chromosome arm 1RS in wheat (Triticum aestivum L.) breeding programs of the Great Plains of North America. <i>Genetic Resources and Crop Evolution</i> , 2019 , 66, 941-950	2	3
15	Enhanced metabolism and selection of pyrethroid-resistant western corn rootworms (Diabrotica virgifera virgifera LeConte). <i>Pesticide Biochemistry and Physiology</i> , 2020 , 164, 165-172	4.9	3
14	Purification and characterization of acylation stimulating protein from porcine serum. <i>Protein Expression and Purification</i> , 2002 , 25, 348-52	2	3
13	Greenbug (Schizaphis graminum) herbivory significantly impacts protein and phosphorylation abundance in switchgrass (Panicum virgatum). <i>Scientific Reports</i> , 2020 , 10, 14842	4.9	3
12	Aphid-Responsive Defense Networks in Hybrid Switchgrass. <i>Frontiers in Plant Science</i> , 2020 , 11, 1145	6.2	3
11	Mineral Element Analyses of Switchgrass Biomass: Comparison of the Accuracy and Precision of Laboratories. <i>Agronomy Journal</i> , 2017 , 109, 735-738	2.2	2
10	Job compensation in the biotechnology core laboratory. <i>Nature Biotechnology</i> , 2000 , 18, 686-9	44.5	2

9	Genetic (co)variation and accuracy of selection for resistance to viral mosaic disease and production traits in an inter-ecotypic switchgrass breeding population. <i>Crop Science</i> , 2021 , 61, 1652-1665	2.4	2
8	Divergent Switchgrass Cultivars Modify Cereal Aphid Transcriptomes. <i>Journal of Economic Entomology</i> , 2019 , 112, 1887-1901	2.2	1
7	Predicting the field establishment of perennial grass feedstocks: progress made and challenges ahead. <i>Biofuels</i> , 2012 , 3, 653-656	2	1
6	Registration of NE Trailblazer C-1, NE Trailblazer C0, NE Trailblazer C2, NE Trailblazer C3, NE Trailblazer C4, and NE Trailblazer C5 Switchgrass Germplasms. <i>Journal of Plant Registrations</i> , 2016 , 10, 159-165	0.7	1
5	Potassium Nitrate Alters Buffalograss Bur Permeability. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2016 , 51, 1566-1572	2.4	0
4	Gene Expression and Physiological Differences in Neo-Octoploid Switchgrass Subjected to Drought Stress. <i>Bioenergy Research</i> , 2020 , 13, 63-78	3.1	
3	Microscopy Assists Understanding Important Aspects of Bioenergy Grasses. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1140-1141	0.5	
2	Phenolic Content and Profile Alterations during Seedling Growth in Supina Bluegrass and Bermudagrass. <i>Crop Science</i> , 2018 , 58, 2010-2019	2.4	
1	Effect of cultivar and temperature on the synergistic interaction between panicum mosaic virus and satellite panicum mosaic virus in switchgrass.. <i>Archives of Virology</i> , 2022 , 1	2.6	