

Steven J Rothstein

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149
papers

11,302
citations

61
h-index

103
g-index

151
ext. papers

12,929
ext. citations

7.6
avg, IF

6.13
L-index

#	Paper	IF	Citations
149	A restriction enzyme cleavage map of Tn5 and location of a region encoding neomycin resistance. <i>Molecular Genetics and Genomics</i> , 1979 , 177, 65-72		530
148	Tung tree DGAT1 and DGAT2 have nonredundant functions in triacylglycerol biosynthesis and are localized to different subdomains of the endoplasmic reticulum. <i>Plant Cell</i> , 2006 , 18, 2294-313	11.6	393
147	Molecular cloning of complementary DNA encoding the lignin-forming peroxidase from tobacco: Molecular analysis and tissue-specific expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987 , 84, 7542-6	11.5	371
146	C6-volatiles derived from the lipoxygenase pathway induce a subset of defense-related genes. <i>Plant Journal</i> , 1998 , 16, 561-9	6.9	348
145	Understanding plant response to nitrogen limitation for the improvement of crop nitrogen use efficiency. <i>Journal of Experimental Botany</i> , 2011 , 62, 1499-509	7	332
144	Control of inflorescence architecture in <i>Antirrhinum</i> . <i>Nature</i> , 1996 , 379, 791-7	50.4	331
143	Heat induces the splicing by IRE1 of a mRNA encoding a transcription factor involved in the unfolded protein response in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 7247-52	11.5	300
142	Genetic regulation by NLA and microRNA827 for maintaining nitrate-dependent phosphate homeostasis in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2011 , 7, e1002021	6	256
141	<i>Arabidopsis</i> homolog of the yeast TREX-2 mRNA export complex: components and anchoring nucleoporin. <i>Plant Journal</i> , 2010 , 61, 259-70	6.9	241
140	Tissue specificity of tobacco peroxidase isozymes and their induction by wounding and tobacco mosaic virus infection. <i>Plant Physiology</i> , 1987 , 84, 438-42	6.6	224
139	A mutation in NLA, which encodes a RING-type ubiquitin ligase, disrupts the adaptability of <i>Arabidopsis</i> to nitrogen limitation. <i>Plant Journal</i> , 2007 , 50, 320-37	6.9	218
138	The relationship between anion exchange and net anion flow across the human red blood cell membrane. <i>Journal of General Physiology</i> , 1977 , 69, 363-86	3.4	216
137	The S-locus receptor kinase gene in a self-incompatible <i>Brassica napus</i> line encodes a functional serine/threonine kinase. <i>Plant Cell</i> , 1992 , 4, 1273-81	11.6	208
136	The inverted repeats of Tn5 are functionally different. <i>Cell</i> , 1980 , 19, 795-805	56.2	198
135	Expression of allene oxide synthase determines defense gene activation in tomato. <i>Plant Physiology</i> , 2000 , 122, 1335-42	6.6	159
134	SAUR39, a small auxin-up RNA gene, acts as a negative regulator of auxin synthesis and transport in rice. <i>Plant Physiology</i> , 2009 , 151, 691-701	6.6	157
133	ABCG transporters are required for suberin and pollen wall extracellular barriers in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014 , 26, 3569-88	11.6	156

132	Genome-wide analysis of Arabidopsis responsive transcriptome to nitrogen limitation and its regulation by the ubiquitin ligase gene NLA. <i>Plant Molecular Biology</i> , 2007 , 65, 775-97	4.6	152
131	Adaptation of Arabidopsis to nitrogen limitation involves induction of anthocyanin synthesis which is controlled by the NLA gene. <i>Journal of Experimental Botany</i> , 2008 , 59, 2933-44	7	151
130	Global transcription profiling reveals differential responses to chronic nitrogen stress and putative nitrogen regulatory components in Arabidopsis. <i>BMC Genomics</i> , 2007 , 8, 281	4.5	151
129	Biological functions of asparagine synthetase in plants. <i>Plant Science</i> , 2010 , 179, 141-153	5.3	148
128	The Genetics of Nitrogen Use Efficiency in Crop Plants. <i>Annual Review of Genetics</i> , 2015 , 49, 269-89	14.5	146
127	Genetic analysis of Arabidopsis GATA transcription factor gene family reveals a nitrate-inducible member important for chlorophyll synthesis and glucose sensitivity. <i>Plant Journal</i> , 2005 , 44, 680-92	6.9	144
126	The role of epigenetic processes in controlling flowering time in plants exposed to stress. <i>Journal of Experimental Botany</i> , 2011 , 62, 3727-35	7	139
125	The functional differences in the inverted repeats of Tn5 are caused by a single base pair nonhomology. <i>Cell</i> , 1981 , 23, 191-9	56.2	133
124	Genome-wide identification of microRNAs in response to low nitrate availability in maize leaves and roots. <i>PLoS ONE</i> , 2011 , 6, e28009	3.7	127
123	Isolation of cDNA clones coding for spinach nitrite reductase: complete sequence and nitrate induction. <i>Molecular Genetics and Genomics</i> , 1988 , 212, 20-6		123
122	The Response of Leaf Photosynthesis and Dry Matter Accumulation to Nitrogen Supply in an Older and a Newer Maize Hybrid. <i>Crop Science</i> , 2008 , 48, 656-665	2.4	122
121	Secretion of a wheat α -amylase expressed in yeast. <i>Nature</i> , 1984 , 308, 662-665	50.4	122
120	AMT1;1 transgenic rice plants with enhanced NH ₄ (+) permeability show superior growth and higher yield under optimal and suboptimal NH ₄ (+) conditions. <i>Journal of Experimental Botany</i> , 2014 , 65, 965-79	7	121
119	Increased nitrogen-use efficiency in transgenic rice plants over-expressing a nitrogen-responsive early nodulin gene identified from rice expression profiling. <i>Plant, Cell and Environment</i> , 2009 , 32, 1749-60	8.4	112
118	Characterization of Antisense Transformed Plants Deficient in the Tobacco Anionic Peroxidase. <i>Plant Physiology</i> , 1997 , 114, 1187-1196	6.6	108
117	Molecular characterization of an Arabidopsis gene encoding hydroperoxide lyase, a cytochrome P-450 that is wound inducible. <i>Plant Physiology</i> , 1998 , 117, 1393-400	6.6	107
116	Peroxidase-Induced Wilting in Transgenic Tobacco Plants. <i>Plant Cell</i> , 1990 , 2, 7-18	11.6	107
115	The rice R2R3-MYB transcription factor OsMYB55 is involved in the tolerance to high temperature and modulates amino acid metabolism. <i>PLoS ONE</i> , 2012 , 7, e52030	3.7	104

114	The APETALA-2-like transcription factor OsAP2-39 controls key interactions between abscisic acid and gibberellin in rice. <i>PLoS Genetics</i> , 2010 , 6, e1001098	6	101
113	Arabidopsis thaliana GPAT8 and GPAT9 are localized to the ER and possess distinct ER retrieval signals: functional divergence of the dilysine ER retrieval motif in plant cells. <i>Plant Physiology and Biochemistry</i> , 2009 , 47, 867-79	5.4	98
112	NIN-like protein 8 is a master regulator of nitrate-promoted seed germination in Arabidopsis. <i>Nature Communications</i> , 2016 , 7, 13179	17.4	95
111	Molecular cloning of complementary DNA encoding maize nitrite reductase: molecular analysis and nitrate induction. <i>Plant Physiology</i> , 1988 , 88, 741-6	6.6	93
110	Stable and heritable inhibition of the expression of nopaline synthase in tobacco expressing antisense RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987 , 84, 8439-43	11.5	91
109	Genome-wide expression profiling of maize in response to individual and combined water and nitrogen stresses. <i>BMC Genomics</i> , 2013 , 14, 3	4.5	89
108	GNC and CGA1 modulate chlorophyll biosynthesis and glutamate synthase (GLU1/Fd-GOGAT) expression in Arabidopsis. <i>PLoS ONE</i> , 2011 , 6, e26765	3.7	87
107	Arabidopsis PEROXIN11c-e, FISSION1b, and DYNAMIN-RELATED PROTEIN3A cooperate in cell cycle-associated replication of peroxisomes. <i>Plant Cell</i> , 2008 , 20, 1567-85	11.6	87
106	The cloning of two tomato lipoxygenase genes and their differential expression during fruit ripening. <i>Plant Physiology</i> , 1994 , 106, 109-18	6.6	85
105	Promoter cassettes, antibiotic-resistance genes, and vectors for plant transformation. <i>Gene</i> , 1987 , 53, 153-61	3.8	85
104	Expression of OsMYB55 in maize activates stress-responsive genes and enhances heat and drought tolerance. <i>BMC Genomics</i> , 2016 , 17, 312	4.5	83
103	Structural and transcriptional comparative analysis of the S locus regions in two self-incompatible Brassica napus lines. <i>Plant Cell</i> , 1999 , 11, 2217-31	11.6	82
102	Cloning of tomato (<i>Lycopersicon esculentum</i> Mill.) arginine decarboxylase gene and its expression during fruit ripening. <i>Plant Physiology</i> , 1993 , 103, 829-34	6.6	80
101	Reappraisal of nitrogen use efficiency in rice overexpressing glutamine synthetase1. <i>Physiologia Plantarum</i> , 2011 , 141, 361-72	4.6	77
100	Molecular characterization of the S locus in two self-incompatible Brassica napus lines. <i>Plant Cell</i> , 1996 , 8, 2369-80	11.6	75
99	Improving yield potential in crops under elevated CO ₂ : Integrating the photosynthetic and nitrogen utilization efficiencies. <i>Frontiers in Plant Science</i> , 2012 , 3, 162	6.2	74
98	Transformation of a partial nopaline synthase gene into tobacco suppresses the expression of a resident wild-type gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 1770-4	11.5	71
97	Over-expression of STP13, a hexose transporter, improves plant growth and nitrogen use in Arabidopsis thaliana seedlings. <i>Plant, Cell and Environment</i> , 2009 , 32, 271-85	8.4	70

96	Assimilation of excess ammonium into amino acids and nitrogen translocation in <i>Arabidopsis thaliana</i> --roles of glutamate synthases and carbamoylphosphate synthetase in leaves. <i>FEBS Journal</i> , 2009 , 276, 4061-76	5.7	70
95	Expression of Nuclear and Chloroplast Photosynthesis-Specific Genes During Leaf Senescence. <i>Journal of Experimental Botany</i> , 1991 , 42, 801-811	7	70
94	ROS Induces Anthocyanin Production Via Late Biosynthetic Genes and Anthocyanin Deficiency Confers the Hypersensitivity to ROS-Generating Stresses in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2017 , 58, 1364-1377	4.9	67
93	Rice cytokinin GATA transcription Factor1 regulates chloroplast development and plant architecture. <i>Plant Physiology</i> , 2013 , 162, 132-44	6.6	65
92	OsPIN5b modulates rice (<i>Oryza sativa</i>) plant architecture and yield by changing auxin homeostasis, transport and distribution. <i>Plant Journal</i> , 2015 , 83, 913-25	6.9	63
91	A developmental transcriptional network for maize defines coexpression modules. <i>Plant Physiology</i> , 2013 , 161, 1830-43	6.6	63
90	The <i>Arabidopsis</i> halophytic relative <i>Thellungiella halophila</i> tolerates nitrogen-limiting conditions by maintaining growth, nitrogen uptake, and assimilation. <i>Plant Physiology</i> , 2008 , 147, 1168-80	6.6	63
89	Regulation of the Accumulation and Reduction of Nitrate by Nitrogen and Carbon Metabolites in Maize Seedlings. <i>Plant Physiology</i> , 1997 , 114, 583-589	6.6	62
88	Asparagine Metabolic Pathways in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2016 , 57, 675-89	4.9	61
87	Effect of light/dark cycles on expression of nitrate assimilatory genes in maize shoots and roots. <i>Plant Physiology</i> , 1991 , 95, 281-5	6.6	59
86	MicroRNA-mediated repression of the seed maturation program during vegetative development in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2012 , 8, e1003091	6	55
85	Synergistic repression of the embryonic programme by SET DOMAIN GROUP 8 and EMBRYONIC FLOWER 2 in <i>Arabidopsis</i> seedlings. <i>Journal of Experimental Botany</i> , 2012 , 63, 1391-404	7	55
84	Two Members of the Thioredoxin-h Family Interacts with the Kinase Domain of a Brassica S Locus Receptor Kinase. <i>Plant Cell</i> , 1996 , 8, 1641	11.6	55
83	The self-incompatibility phenotype in brassica is altered by the transformation of a mutant S locus receptor kinase. <i>Plant Cell</i> , 1998 , 10, 209-18	11.6	55
82	Structure and regulation of ferredoxin-dependent glutamase synthase from <i>Arabidopsis thaliana</i> . Cloning of cDNA expression in different tissues of wild-type and <i>gltS</i> mutant strains, and light induction. <i>FEBS Journal</i> , 1997 , 243, 708-18		54
81	Footprinting of the spinach nitrite reductase gene promoter reveals the preservation of nitrate regulatory elements between fungi and higher plants. <i>Plant Molecular Biology</i> , 1997 , 34, 465-76	4.6	53
80	Isolation of the spinach nitrite reductase gene promoter which confers nitrate inducibility on GUS gene expression in transgenic tobacco. <i>Plant Molecular Biology</i> , 1991 , 17, 9-18	4.6	52
79	RNA polymerase binding sites in <i>lambda</i> plac5 DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1977 , 74, 4914-8	11.5	52

78	The Transcription Factor ANAC032 Represses Anthocyanin Biosynthesis in Response to High Sucrose and Oxidative and Abiotic Stresses. <i>Frontiers in Plant Science</i> , 2016 , 7, 1548	6.2	50
77	Returning to our roots: making plant biology research relevant to future challenges in agriculture. <i>Plant Cell</i> , 2007 , 19, 2695-9	11.6	48
76	AtMBD9: a protein with a methyl-CpG-binding domain regulates flowering time and shoot branching in Arabidopsis. <i>Plant Journal</i> , 2006 , 46, 282-96	6.9	48
75	Purification and partial characterization of a membrane-associated lipoxygenase in tomato fruit. <i>Plant Physiology</i> , 1992 , 100, 1802-7	6.6	48
74	Role of microRNAs involved in plant response to nitrogen and phosphorous limiting conditions. <i>Frontiers in Plant Science</i> , 2015 , 6, 629	6.2	47
73	A 330 bp region of the spinach nitrite reductase gene promoter directs nitrate-inducible tissue-specific expression in transgenic tobacco. <i>Plant Journal</i> , 1993 , 4, 317-326	6.9	47
72	Transient Accumulation of Nitrite Reductase mRNA in Maize following the Addition of Nitrate. <i>Plant Physiology</i> , 1989 , 90, 1214-20	6.6	47
71	Binding of pea cytochrome f to the inner membrane of Escherichia coli requires the bacterial secA gene product. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 7955-9	11.5	47
70	AtMBD9 modulates Arabidopsis development through the dual epigenetic pathways of DNA methylation and histone acetylation. <i>Plant Journal</i> , 2009 , 59, 123-35	6.9	44
69	Physiological and genetic analysis of Arabidopsis thaliana anthocyanin biosynthesis mutants under chronic adverse environmental conditions. <i>Journal of Experimental Botany</i> , 2013 , 64, 229-40	7	43
68	Hydrophobic-domain-dependent protein-protein interactions mediate the localization of GPAT enzymes to ER subdomains. <i>Traffic</i> , 2011 , 12, 452-72	5.7	43
67	Biosynthesis of cannflavins A and B from Cannabis sativa L. <i>Phytochemistry</i> , 2019 , 164, 162-171	4	42
66	ANAC032 Positively Regulates Age-Dependent and Stress-Induced Senescence in Arabidopsis thaliana. <i>Plant and Cell Physiology</i> , 2016 , 57, 2029-2046	4.9	42
65	Co-expression of both the maize large and wheat small subunit genes of ribulose-bisphosphate carboxylase in Escherichia coli. <i>FEBS Journal</i> , 1987 , 168, 227-31		41
64	Synthesis and secretion of wheat alpha-amylase in Saccharomyces cerevisiae. <i>Gene</i> , 1987 , 55, 353-6	3.8	38
63	The S locus glycoprotein and the S receptor kinase are sufficient for self-pollen rejection in Brassica. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 3713-7	11.5	38
62	Use of the polymerase chain reaction to isolate an S-locus glycoprotein cDNA introgressed from Brassica campestris into B. napus ssp. oleifera. <i>Molecular Genetics and Genomics</i> , 1992 , 234, 185-92		37
61	Translational coupling of the maize chloroplast atpB and atpE genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989 , 86, 4066-70	11.5	36

60	Ammonium-induced architectural and anatomical changes with altered suberin and lignin levels significantly change water and solute permeabilities of rice (<i>Oryza sativa</i> L.) roots. <i>Planta</i> , 2016 , 243, 231-49	4.7	35
59	Nitrate effects on nitrate reductase activity and nitrite reductase mRNA levels in maize suspension cultures. <i>Plant Physiology</i> , 1989 , 90, 962-7	6.6	33
58	Alteration of the bZIP60/IRE1 pathway affects plant response to ER stress in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2012 , 7, e39023	3.7	33
57	ROS-Induced anthocyanin production provides feedback protection by scavenging ROS and maintaining photosynthetic capacity in <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2018 , 13, e1451708	2.5	32
56	Regulation by light and metabolites of ferredoxin-dependent glutamate synthase in maize. <i>Physiologia Plantarum</i> , 2001 , 112, 524-530	4.6	30
55	Metabolic and co-expression network-based analyses associated with nitrate response in rice. <i>BMC Genomics</i> , 2014 , 15, 1056	4.5	29
54	Global DNA methylation analysis using methyl-sensitive amplification polymorphism (MSAP). <i>Methods in Molecular Biology</i> , 2014 , 1062, 285-98	1.4	29
53	Molecular mechanisms of self-recognition in Brassica self-incompatibility. <i>Trends in Plant Science</i> , 2000 , 5, 432-8	13.1	29
52	Overexpression of OsGATA12 regulates chlorophyll content, delays plant senescence and improves rice yield under high density planting. <i>Plant Molecular Biology</i> , 2017 , 94, 215-227	4.6	28
51	Transcript and metabolite signature of maize source leaves suggests a link between transitory starch to sucrose balance and the autonomous floral transition. <i>Journal of Experimental Botany</i> , 2012 , 63, 5079-92	7	28
50	Identification of an S-locus glycoprotein allele introgressed from <i>B. napus</i> ssp. <i>rapifera</i> to <i>B. napus</i> ssp. <i>oleifera</i> . <i>Plant Journal</i> , 1992 , 2, 983-989	6.9	28
49	Regulation of maize root nitrate reductase mRNA levels. <i>Physiologia Plantarum</i> , 1992 , 85, 561-566	4.6	28
48	Overexpression of miR169o, an Overlapping MicroRNA in Response to Both Nitrogen Limitation and Bacterial Infection, Promotes Nitrogen Use Efficiency and Susceptibility to Bacterial Blight in Rice. <i>Plant and Cell Physiology</i> , 2018 , 59, 1234-1247	4.9	27
47	High throughput RNA sequencing of a hybrid maize and its parents shows different mechanisms responsive to nitrogen limitation. <i>BMC Genomics</i> , 2014 , 15, 77	4.5	27
46	Characterization and immunolocalization of a cytosolic calcium-binding protein from <i>Brassica napus</i> and <i>Arabidopsis</i> pollen. <i>Plant Physiology</i> , 1999 , 120, 787-98	6.6	27
45	Regulation of seed dormancy and germination by nitrate. <i>Seed Science Research</i> , 2018 , 28, 150-157	1.3	26
44	Auxin-responsive SAUR39 gene modulates auxin level in rice. <i>Plant Signaling and Behavior</i> , 2009 , 4, 1174-55	2.5	26
43	Overexpression of the CC-type glutaredoxin, OsGRX6 affects hormone and nitrogen status in rice plants. <i>Frontiers in Plant Science</i> , 2015 , 6, 934	6.2	25

42	Quantitative and qualitative differences in C6-volatile production from the lipoxygenase pathway in an alcohol dehydrogenase mutant of <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , 1998 , 104, 97-104	4.6	25
41	A complete cDNA for adenine phosphoribosyltransferase from <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 1992 , 18, 653-62	4.6	25
40	Functional characterization of the rice UDP-glucose 4-epimerase 1, OsUGE1: a potential role in cell wall carbohydrate partitioning during limiting nitrogen conditions. <i>PLoS ONE</i> , 2014 , 9, e96158	3.7	24
39	Peroxidase-Induced Wilting in Transgenic Tobacco Plants. <i>Plant Cell</i> , 1990 , 2, 7	11.6	23
38	Active Translation of the D-1 Protein of Photosystem II in Senescing Leaves. <i>Plant Physiology</i> , 1992 , 99, 589-94	6.6	21
37	<i>Agrobacterium</i> -derived cytokinin influences plastid morphology and starch accumulation in <i>Nicotiana benthamiana</i> during transient assays. <i>BMC Plant Biology</i> , 2014 , 14, 127	5.3	20
36	Developmental regulation of two tomato lipoxygenase promoters in transgenic tobacco and tomato. <i>Plant Molecular Biology</i> , 1997 , 33, 835-46	4.6	19
35	The challenges of commercializing second-generation transgenic crop traits necessitate the development of international public sector research infrastructure. <i>Journal of Experimental Botany</i> , 2014 , 65, 5673-82	7	17
34	Loss of callose in the stigma papillae does not affect the Brassica self-incompatibility phenotype. <i>Planta</i> , 1997 , 203, 327-331	4.7	17
33	Transformation of <i>Arabidopsis</i> with a Brassica SLG/SRK region and ARC1 gene is not sufficient to transfer the self-incompatibility phenotype. <i>Molecular Genetics and Genomics</i> , 2000 , 263, 648-54		17
32	Synthesis of a wheat storage protein subunit in <i>Escherichia coli</i> using novel expression vectors. <i>Gene</i> , 1985 , 35, 159-67	3.8	17
31	An S Receptor Kinase Gene in Self-Compatible Brassica napus Has a 1-bp Deletion. <i>Plant Cell</i> , 1993 , 5, 531	11.6	16
30	Nitrogen effects on the induction of ferredoxin-dependent glutamate synthase and its mRNA in maize leaves under the light. <i>Plant Science</i> , 1996 , 114, 83-91	5.3	15
29	Features of the extracellular domain of the S-locus receptor kinase from Brassica. <i>Molecular Genetics and Genomics</i> , 1994 , 244, 630-7		15
28	Overexpression of ANAC046 Promotes Suberin Biosynthesis in Roots of. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	15
27	The SNAC-A Transcription Factor ANAC032 Reprograms Metabolism in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2019 , 60, 999-1010	4.9	14
26	Analysis of cis-acting DNA elements mediating induction and repression of the spinach nitrite reductase gene. <i>Planta</i> , 1998 , 206, 66-71	4.7	14
25	Nitrogen transporter and assimilation genes exhibit developmental stage-selective expression in maize (<i>Zea mays</i> L.) associated with distinct cis-acting promoter motifs. <i>Plant Signaling and Behavior</i> , 2013 , 8,	2.5	13

24	Expression of a wheat alpha-amylase gene in Escherichia coli: recognition of the translational initiation site and the signal peptide. <i>Gene</i> , 1986 , 45, 11-8	3.8	12
23	Nitrogen limitation and high density responses in rice suggest a role for ethylene under high density stress. <i>BMC Genomics</i> , 2014 , 15, 681	4.5	10
22	Exploring the molecular and metabolic factors contributing to the adaptation of maize seedlings to nitrate limitation. <i>Frontiers in Plant Science</i> , 2011 , 2, 49	6.2	9
21	A novel strategy for regulated expression of a cytotoxic gene. <i>Gene</i> , 2001 , 279, 175-9	3.8	9
20	Engineering resistance to trypsin inactivation into L-asparaginase through the production of a chimeric protein between the enzyme and a protective single-chain antibody. <i>Enzyme and Microbial Technology</i> , 1995 , 17, 757-64	3.8	9
19	Synthesis of maize chloroplast ATP-synthase beta-subunit fusion proteins in Escherichia coli and binding to the inner membrane. <i>Gene</i> , 1986 , 41, 241-7	3.8	9
18	A multivariate Poisson-log normal mixture model for clustering transcriptome sequencing data. <i>BMC Bioinformatics</i> , 2019 , 20, 394	3.6	8
17	Genome-wide binding analysis of AtGNC and AtCGA1 demonstrates their cross-regulation and common and specific functions. <i>Plant Direct</i> , 2017 , 1, e00016	3.3	7
16	Identification and characterization of a putative light-harvesting chlorophyll a/b-binding protein gene encoded at a fertility restorer locus for the Ogura CMS in Brassica napus L.. <i>Theoretical and Applied Genetics</i> , 2001 , 102, 759-766	6	7
15	A binary vector-based large insert library for Brassica napus and identification of clones linked to a fertility restorer locus for Ogura cytoplasmic male sterility (CMS). <i>Genome</i> , 2000 , 43, 102-109	2.4	7
14	Altered Expression of OsNLA1 Modulates Pi Accumulation in Rice (L.) Plants. <i>Frontiers in Plant Science</i> , 2017 , 8, 928	6.2	6
13	Using bacteria to analyze sequences involved in chloroplast gene expression. <i>Photosynthesis Research</i> , 1988 , 19, 7-22	3.7	6
12	S-Locus Receptor Kinase Genes and Self-incompatibility in Brassica napus. <i>Plant Gene Research</i> , 1996 , 217-230		4
11	Identification of regulatory genes to improve nitrogen use efficiency. <i>Canadian Journal of Plant Science</i> , 2014 , 94, 1009-1012	1	3
10	Evidence that the Arabidopsis Ubiquitin C-terminal Hydrolases 1 and 2 associate with the 26S proteasome and the TREX-2 complex. <i>Plant Signaling and Behavior</i> , 2012 , 7, 1415-9	2.5	3
9	The AtPP gene of the Brassica napus S locus region is specifically expressed in the stigma and encodes a protein similar to a methyltransferase involved in plant defense. <i>Sexual Plant Reproduction</i> , 2001 , 13, 309-314		3
8	Regulation of maize root nitrate reductase mRNA levels. <i>Physiologia Plantarum</i> , 1992 , 85, 561-566	4.6	2
7	Antigenic similarity between the β subunits of the ATPases of a bacterium, a yeast and a higher plant. <i>Phytochemistry</i> , 1985 , 24, 259-260	4	1

- 6 Distinct domains within the NITROGEN LIMITATION ADAPTATION protein mediate its subcellular localization and function in the nitrate-dependent phosphate homeostasis pathway. *Botany*, **2018**, 96, 79-96 1.3 1
- 5 Molecular Genetics of Self-incompatibility in *Brassica napus*. *Annals of Botany*, **2000**, 85, 133-139 4.1
- 4 The Self-Incompatibility Phenotype in *Brassica* Is Altered by the Transformation of a Mutant S Locus Receptor Kinase. *Plant Cell*, **1998**, 10, 209 11.6
- 3 Structural and Transcriptional Comparative Analysis of the S Locus Regions in Two Self-Incompatible *Brassica napus* Lines. *Plant Cell*, **1999**, 11, 2217 11.6
- 2 Molecular Characterization of the S Locus in Two Self-Incompatible *Brassica napus* Lines. *Plant Cell*, **1996**, 8, 2369 11.6
- 1 Using bacteria to analyze sequences involved in chloroplast gene expression **1988**, 105-120