

László Szabados

List of Publications by Year in descending order

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70
papers

9,156
citations

87888

38
h-index

95266

68
g-index

71
all docs

71
docs citations

71
times ranked

10002
citing authors

#	ARTICLE	IF	CITATIONS
1	Proline: a multifunctional amino acid. Trends in Plant Science, 2010, 15, 89-97.	8.8	3,090
2	Duplicated <i>P5CS</i> genes of Arabidopsis play distinct roles in stress regulation and developmental control of proline biosynthesis. Plant Journal, 2008, 53, 11-28.	5.7	642
3	Differential expression of two P5CS genes controlling proline accumulation during salt stress requires ABA and is regulated by ABA1, ABI1 and AXR2 in Arabidopsis. Plant Journal, 1997, 12, 557-569.	5.7	364
4	Proline metabolism and transport in plant development. Amino Acids, 2010, 39, 949-962.	2.7	290
5	Plant glutathione peroxidases: Emerging role of the antioxidant enzymes in plant development and stress responses. Journal of Plant Physiology, 2015, 176, 192-201.	3.5	284
6	Light-dependent induction of proline biosynthesis by abscisic acid and salt stress is inhibited by brassinosteroid in Arabidopsis. Plant Molecular Biology, 2003, 51, 363-372.	3.9	251
7	Proline Accumulation and AtP5CS2 Gene Activation Are Induced by Plant-Pathogen Incompatible Interactions in Arabidopsis. Molecular Plant-Microbe Interactions, 2004, 17, 343-350.	2.6	250
8	Methods for Determination of Proline in Plants. Methods in Molecular Biology, 2010, 639, 317-331.	0.9	232
9	The Impact of the Absence of Aliphatic Glucosinolates on Insect Herbivory in Arabidopsis. PLoS ONE, 2008, 3, e2068.	2.5	223
10	Arabidopsis PPP family of serine/threonine phosphatases. Trends in Plant Science, 2007, 12, 169-176.	8.8	201
11	The Heat Shock Factor A4A Confers Salt Tolerance and Is Regulated by Oxidative Stress and the Mitogen-Activated Protein Kinases MPK3 and MPK6. Plant Physiology, 2014, 165, 319-334.	4.8	186
12	Regulatory interaction of PRL1 WD protein with Arabidopsis SNF1-like protein kinases. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5322-5327.	7.1	178
13	The low oxygen, oxidative and osmotic stress responses synergistically act through the ethylene response factor <i>VII</i> genes <i>RAP2.12</i> , <i>RAP2.2</i> and <i>RAP2.3</i> . Plant Journal, 2015, 82, 772-784.	5.7	170
14	Evolution of proline biosynthesis: enzymology, bioinformatics, genetics, and transcriptional regulation. Biological Reviews, 2015, 90, 1065-1099.	10.4	151
15	Distribution of 1000 sequenced T-DNA tags in the Arabidopsis genome. Plant Journal, 2002, 32, 233-242.	5.7	143
16	Arabidopsis PPR40 Connects Abiotic Stress Responses to Mitochondrial Electron Transport. Plant Physiology, 2008, 146, 1721-1737.	4.8	137
17	Differential expression of two <i>P5CS</i> genes controlling proline accumulation during salt stress requires ABA and is regulated by <i>ABA1</i> , <i>ABI1</i> and <i>AXR2</i> in Arabidopsis. Plant Journal, 1997, 12, 557-569.	5.7	134
18	Gene identification with sequenced T-DNA tags generated by transformation of Arabidopsis cell suspension. Plant Journal, 1998, 13, 707-716.	5.7	122

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19	Functional Identification of Arabidopsis Stress Regulatory Genes Using the Controlled cDNA Overexpression System. <i>Plant Physiology</i> , 2008, 147, 528-542.	4.8	117
20	Proline metabolism as regulatory hub. <i>Trends in Plant Science</i> , 2022, 27, 39-55.	8.8	109
21	Arabidopsis S6 kinase mutants display chromosome instability and altered RBR1-E2F pathway activity. <i>EMBO Journal</i> , 2010, 29, 2979-2993.	7.8	98
22	The Arabidopsis ZINC FINGER PROTEIN3 Interferes with Abscisic Acid and Light Signaling in Seed Germination and Plant Development. <i>Plant Physiology</i> , 2014, 165, 1203-1220.	4.8	89
23	Diversity of plant heat shock factors: regulation, interactions, and functions. <i>Journal of Experimental Botany</i> , 2021, 72, 1558-1575.	4.8	88
24	Inactivation of Plasma Membrane-Localized CDPK-RELATED KINASE5 Decelerates PIN2 Exocytosis and Root Gravitropic Response in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 1592-1608.	6.6	87
25	Uptake of isolated plant chromosomes by plant protoplasts. <i>Planta</i> , 1981, 151, 141-145.	3.2	83
26	Proline Accumulation Is Regulated by Transcription Factors Associated with Phosphate Starvation. <i>Plant Physiology</i> , 2017, 175, 555-567.	4.8	73
27	Differential contribution of individual dehydrin genes from <i>Physcomitrella patens</i> to salt and osmotic stress tolerance. <i>Plant Science</i> , 2012, 190, 89-102.	3.6	72
28	In vitro somatic embryogenesis and plant regeneration of cassava. <i>Plant Cell Reports</i> , 1987, 6, 248-251.	5.6	70
29	Elevation of free proline and proline-rich protein levels by simultaneous manipulations of proline biosynthesis and degradation in plants. <i>Plant Science</i> , 2011, 181, 140-150.	3.6	67
30	Isolation and characterization of two different cDNAs of delta1-pyrroline-5-carboxylate synthase in alfalfa, transcriptionally induced upon salt stress. <i>Plant Molecular Biology</i> , 1998, 38, 755-764.	3.9	65
31	Overexpression of the mitochondrial PPR40 gene improves salt tolerance in Arabidopsis. <i>Plant Science</i> , 2012, 182, 87-93.	3.6	63
32	The mitogen-activated protein kinase 4-phosphorylated heat shock factor A4A regulates responses to combined salt and heat stresses. <i>Journal of Experimental Botany</i> , 2019, 70, 4903-4918.	4.8	63
33	New plant promoter and enhancer testing vectors. <i>Molecular Breeding</i> , 1995, 1, 419-423.	2.1	60
34	Gene Trapping with Firefly Luciferase in Arabidopsis. Tagging of Stress-Responsive Genes. <i>Plant Physiology</i> , 2004, 134, 18-27.	4.8	57
35	Specialized vectors for gene tagging and expression studies. , 1994, , 53-74.		52
36	Plants in Extreme Environments. <i>Advances in Botanical Research</i> , 2011, 57, 105-150.	1.1	48

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37	Recovery from heat, salt and osmotic stress in <i>Physcomitrella patens</i> requires a functional small heat shock protein PpHsp16.4. <i>BMC Plant Biology</i> , 2013, 13, 174.	3.6	48
38	Exogenous salicylic acid-triggered changes in the glutathione transferases and peroxidases are key factors in the successful salt stress acclimation of <i>Arabidopsis thaliana</i> . <i>Functional Plant Biology</i> , 2015, 42, 1129.	2.1	48
39	Exogenously applied salicylic acid maintains redox homeostasis in salt-stressed <i>Arabidopsis gr1</i> mutants expressing cytosolic roGFP1. <i>Plant Growth Regulation</i> , 2018, 86, 181-194.	3.4	40
40	Fusion between interphase and mitotic plant protoplasts. <i>Experimental Cell Research</i> , 1980, 127, 442-446.	2.6	36
41	Regulation of plant genes specifically induced in nitrogen-fixing nodules: role of cis-acting elements and trans-acting factors in leghemoglobin gene expression. <i>Plant Molecular Biology</i> , 1989, 13, 319-325.	3.9	36
42	Functional Analysis of the <i>Sesbania rostrata</i> Leghemoglobin glb3 Gene 5'-Upstream Region in Transgenic <i>Lotus corniculatus</i> and <i>Nicotiana tabacum</i> Plants. <i>Plant Cell</i> , 1990, 2, 973.	6.6	36
43	Physiological and molecular responses to heavy metal stresses suggest different detoxification mechanism of <i>Populus deltoides</i> and <i>P. x canadensis</i> . <i>Journal of Plant Physiology</i> , 2016, 201, 62-70.	3.5	35
44	A simple method for isolation, liquid culture, transformation and regeneration of <i>Arabidopsis thaliana</i> protoplasts. <i>Plant Cell Reports</i> , 1995, 14, 221-6.	5.6	33
45	PlantSize Offers an Affordable, Non-destructive Method to Measure Plant Size and Color in Vitro. <i>Frontiers in Plant Science</i> , 2018, 9, 219.	3.6	33
46	Comprehensive analysis of antioxidant mechanisms in <i>Arabidopsis</i> glutathione peroxidase-like mutants under salt- and osmotic stress reveals organ-specific significance of the AtGPXL TM s activities. <i>Environmental and Experimental Botany</i> , 2018, 150, 127-140.	4.2	30
47	The AtCRK5 Protein Kinase Is Required to Maintain the ROS NO Balance Affecting the PIN2-Mediated Root Gravitropic Response in <i>Arabidopsis</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 5979.	4.1	30
48	Enhanced activity of galactono-1,4-lactone dehydrogenase and ascorbate-glutathione cycle in mitochondria from complex III deficient <i>Arabidopsis</i> . <i>Plant Physiology and Biochemistry</i> , 2011, 49, 809-815.	5.8	29
49	Light Control of Salt-Induced Proline Accumulation Is Mediated by ELONGATED HYPOCOTYL 5 in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 1584.	3.6	28
50	Functional Analysis of the <i>Arabidopsis thaliana</i> CDPK-Related Kinase Family: AtCRK1 Regulates Responses to Continuous Light. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1282.	4.1	27
51	Chimeric genes and transgenic plants are used to study the regulation of genes involved in symbiotic plant-microbe interactions (nodulin genes). <i>Genesis</i> , 1990, 11, 182-196.	2.1	25
52	Gene mining in halophytes: functional identification of stress tolerance genes in <i>Lepidium crassifolium</i> . <i>Plant, Cell and Environment</i> , 2016, 39, 2074-2084.	5.7	25
53	Callus formation from protoplasts of a sugarbeet cell suspension culture. <i>Plant Cell Reports</i> , 1985, 4, 195-198.	5.6	24
54	CRK5 Protein Kinase Contributes to the Progression of Embryogenesis of <i>Arabidopsis thaliana</i> . <i>International Journal of Molecular Sciences</i> , 2019, 20, 6120.	4.1	24

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55	The role of Arabidopsis glutathione transferase F9 gene under oxidative stress in seedlings. <i>Acta Biologica Hungarica</i> , 2015, 66, 406-418.	0.7	21
56	T-DNA trapping of a cryptic promoter identifies an ortholog of highly conserved SNZ growth arrest response genes in Arabidopsis. <i>Plant Science</i> , 1998, 138, 217-228.	3.6	20
57	AtCRK5 Protein Kinase Exhibits a Regulatory Role in Hypocotyl Hook Development during Skotomorphogenesis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3432.	4.1	20
58	Genetic Screens to Identify Plant Stress Genes. <i>Methods in Molecular Biology</i> , 2010, 639, 121-139.	0.9	16
59	SELENOPROTEIN O is a chloroplast protein involved in ROS scavenging and its absence increases dehydration tolerance in Arabidopsis thaliana. <i>Plant Science</i> , 2018, 270, 278-291.	3.6	15
60	Overexpression of the Arabidopsis glutathione peroxidase-like 5 gene (AtGPXL5) resulted in altered plant development and redox status. <i>Environmental and Experimental Botany</i> , 2019, 167, 103849.	4.2	15
61	Regeneration of isolated mesophyll and cell suspension protoplasts to plants in <i>Stylosanthes guianensis</i> . A tropical forage legume. <i>Plant Cell Reports</i> , 1986, 5, 174-177.	5.6	12
62	Genetic technologies for the identification of plant genes controlling environmental stress responses. <i>Functional Plant Biology</i> , 2009, 36, 696.	2.1	11
63	Microcystin-LR, a cyanobacterial toxin affects root development by changing levels of PIN proteins and auxin response in Arabidopsis roots. <i>Chemosphere</i> , 2021, 276, 130183.	8.2	6
64	Transformation Using Controlled cDNA Overexpression System. <i>Methods in Molecular Biology</i> , 2012, 913, 277-290.	0.9	5
65	Small paraquat resistance proteins modulate paraquat and ABA responses and confer drought tolerance to overexpressing Arabidopsis plants. <i>Plant, Cell and Environment</i> , 2022, 45, 1985-2003.	5.7	5
66	Striving Towards Abiotic Stresses: Role of the Plant CDPK Superfamily Members. , 2019, , 99-105.		4
67	Crosstalk between the Arabidopsis Glutathione Peroxidase-Like 5 Isoenzyme (AtGPXL5) and Ethylene. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5749.	4.1	4
68	Biochemical and Gene Expression Analyses in Different Poplar Clones: The Selection Tools for Afforestation of Halomorphic Environments. <i>Forests</i> , 2021, 12, 636.	2.1	3
69	Characterization of abiotic stress-responsive RD29B and RD17 genes in different poplar clones. <i>Topola</i> , 2020, , 13-20.	0.4	2
70	Screening Stress Tolerance Traits in Arabidopsis Cell Cultures. <i>Methods in Molecular Biology</i> , 2016, 1398, 235-246.	0.9	0