

Hillel Fromm

List of Publications by Year in descending order

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77
papers

9,295
citations

50276

46
h-index

79698

73
g-index

80
all docs

80
docs citations

80
times ranked

8202
citing authors

#	ARTICLE	IF	CITATIONS
1	GABA in plants: just a metabolite?. Trends in Plant Science, 2004, 9, 110-115.	8.8	960
2	Highway or byway: the metabolic role of the GABA shunt in plants. Trends in Plant Science, 2008, 13, 14-19.	8.8	583
3	Calmodulin as a versatile calcium signal transducer in plants. New Phytologist, 2001, 151, 35-66.	7.3	442
4	PLANT-SPECIFIC CALMODULIN-BINDING PROTEINS. Annual Review of Plant Biology, 2005, 56, 435-466.	18.7	379
5	Mitochondrial succinic-semialdehyde dehydrogenase of the γ -aminobutyrate shunt is required to restrict levels of reactive oxygen intermediates in plants. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6843-6848.	7.1	375
6	Genome of Acanthamoeba castellanii highlights extensive lateral gene transfer and early evolution of tyrosine kinase signaling. Genome Biology, 2013, 14, R11.	9.6	296
7	A tobacco plasma membrane calmodulin-binding transporter confers Ni ²⁺ tolerance and Pb ²⁺ hypersensitivity in transgenic plants. Plant Journal, 1999, 20, 171-182.	5.7	288
8	Rapid Transcriptome Changes Induced by Cytosolic Ca ²⁺ Transients Reveal ABRE-Related Sequences as Ca ²⁺ -Responsive cis Elements in Arabidopsis. Plant Cell, 2006, 18, 2733-2748.	6.6	277
9	A Novel Family of Calmodulin-binding Transcription Activators in Multicellular Organisms. Journal of Biological Chemistry, 2002, 277, 21851-21861.	3.4	258
10	Calmodulin, calmodulin-related proteins and plant responses to the environment. Trends in Plant Science, 1998, 3, 299-304.	8.8	229
11	Closing the loop on the GABA shunt in plants: are GABA metabolism and signaling entwined?. Frontiers in Plant Science, 2015, 6, 419.	3.6	215
12	Cyclic nucleotide-gated channels in plants. FEBS Letters, 2007, 581, 2237-2246.	2.8	206
13	Electrophysiological Analysis of Cloned Cyclic Nucleotide-Gated Ion Channels. Plant Physiology, 2002, 128, 400-410.	4.8	198
14	GABA signaling: a conserved and ubiquitous mechanism. Trends in Cell Biology, 2003, 13, 607-610.	7.9	197
15	Transcriptomic analysis of Sorghum bicolor responding to combined heat and drought stress. BMC Genomics, 2014, 15, 456.	2.8	188
16	CAMTAs: Calmodulin-binding transcription activators from plants to human. FEBS Letters, 2007, 581, 3893-3898.	2.8	184
17	Calmodulin-binding transcription activator (CAMTA) 3 mediates biotic defense responses in Arabidopsis. FEBS Letters, 2008, 582, 943-948.	2.8	183
18	Expression of a truncated tobacco NtCBP4 channel in transgenic plants and disruption of the homologous Arabidopsis CNGC1 gene confer Pb ²⁺ tolerance. Plant Journal, 2000, 24, 533-542.	5.7	173

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19	Calcium-Regulated Transcription in Plants. <i>Molecular Plant</i> , 2010, 3, 653-669.	8.3	163
20	Control of <i>psbA</i> gene expression: in mature <i>Spirodela</i> chloroplasts light regulation of 32-kd protein synthesis is independent of transcript level. <i>EMBO Journal</i> , 1985, 4, 291-295.	7.8	162
21	A mitochondrial GABA permease connects the GABA shunt and the TCA cycle, and is essential for normal carbon metabolism. <i>Plant Journal</i> , 2011, 67, 485-498.	5.7	160
22	Calcium/Calmodulin Activation of Soybean Glutamate Decarboxylase. <i>Plant Physiology</i> , 1995, 108, 543-549.	4.8	155
23	The prenylation status of a novel plant calmodulin directs plasma membrane or nuclear localization of the protein. <i>EMBO Journal</i> , 1999, 18, 1996-2007.	7.8	152
24	Activation of a Recombinant <i>Petunia</i> Glutamate Decarboxylase by Calcium/Calmodulin or by a Monoclonal Antibody Which Recognizes the Calmodulin Binding Domain. <i>Journal of Biological Chemistry</i> , 1996, 271, 4148-4153.	3.4	141
25	Evidence for in vivo trans splicing of pre-mRNAs in tobacco chloroplasts. <i>Cell</i> , 1987, 48, 111-119.	28.9	135
26	Plant Succinic Semialdehyde Dehydrogenase. Cloning, Purification, Localization in Mitochondria, and Regulation by Adenine Nucleotides. <i>Plant Physiology</i> , 1999, 121, 589-598.	4.8	121
27	Molecular and Biochemical Analysis of Calmodulin Interactions with the Calmodulin-Binding Domain of Plant Glutamate Decarboxylase. <i>Plant Physiology</i> , 1995, 108, 551-561.	4.8	120
28	Leaf-Induced Gibberellin Signaling Is Essential for Internode Elongation, Cambial Activity, and Fiber Differentiation in Tobacco Stems. <i>Plant Cell</i> , 2012, 24, 66-79.	6.6	117
29	Environmental Conditions Affect the Color, Taste, and Antioxidant Capacity of 11 Pomegranate Accessions'™ Fruits. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 9197-9209.	5.2	116
30	Mitochondrial type-1 prohibitins of <i>Arabidopsis thaliana</i> are required for supporting proficient meristem development. <i>Plant Journal</i> , 2007, 52, 850-864.	5.7	114
31	GABA shunt deficiencies and accumulation of reactive oxygen intermediates: insight from <i>Arabidopsis</i> mutants. <i>FEBS Letters</i> , 2005, 579, 415-420.	2.8	111
32	The root-specific glutamate decarboxylase (GAD1) is essential for sustaining GABA levels in <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2004, 55, 315-325.	3.9	107
33	A high-affinity calmodulin-binding site in a tobacco plasma-membrane channel protein coincides with a characteristic element of cyclic nucleotide-binding domains. <i>Plant Molecular Biology</i> , 2000, 42, 591-601.	3.9	100
34	Calmodulin-binding transcription activator 1 mediates auxin signaling and responds to stresses in <i>Arabidopsis</i> . <i>Planta</i> , 2010, 232, 165-178.	3.2	87
35	Two isoforms of glutamate decarboxylase in <i>Arabidopsis</i> are regulated by calcium/calmodulin and differ in organ distribution. <i>Plant Molecular Biology</i> , 1998, 37, 967-975.	3.9	81
36	<i>Arabidopsis</i> Inositol Polyphosphate 6-/3-Kinase Is a Nuclear Protein That Complements a Yeast Mutant Lacking a Functional ArgR-Mcm1 Transcription Complex. <i>Plant Cell</i> , 2003, 15, 449-463.	6.6	80

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37	Differential regulation of Ca ²⁺ /calmodulin-dependent enzymes by plant calmodulin isoforms and free Ca ²⁺ concentration. <i>Biochemical Journal</i> , 2000, 350, 299-306.	3.7	77
38	MIZ1 regulates ECA1 to generate a slow, long-distance phloem-transmitted Ca ²⁺ signal essential for root water tracking in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8031-8036.	7.1	76
39	The molecular basis for rRNA-dependent spectinomycin resistance in <i>Nicotiana</i> chloroplasts. <i>EMBO Journal</i> , 1987, 6, 3233-3237.	7.8	75
40	Mutants of GABA Transaminase (POP2) Suppress the Severe Phenotype of succinic semialdehyde dehydrogenase (ssadh) Mutants in <i>Arabidopsis</i> . <i>PLoS ONE</i> , 2008, 3, e3383.	2.5	74
41	Clone bank of <i>Nicotiana tabacum</i> chloroplast DNA: Mapping of the alpha, beta and epsilon subunits of the ATPase coupling factor, the large subunit of ribulosebiphosphate carboxylase, and the 32-kDal membrane protein. <i>Gene</i> , 1983, 25, 271-280.	2.2	68
42	The enigma of the gene coding for ribosomal protein S12 in the chloroplasts of <i>Nicotiana</i> . <i>Nucleic Acids Research</i> , 1986, 14, 883-898.	14.5	63
43	Characterization of the plant homologue of prohibitin, a gene associated with antiproliferative activity in mammalian cells. , 1997, 33, 753-756.		58
44	Combined Transcriptomics and Metabolomics of <i>Arabidopsis thaliana</i> Seedlings Exposed to Exogenous GABA Suggest Its Role in Plants Is Predominantly Metabolic. <i>Molecular Plant</i> , 2014, 7, 1065-1068.	8.3	56
45	Cloning of plant cDNAs encoding calmodulin-binding proteins using ³⁵ S-labeled recombinant calmodulin as a probe. <i>Plant Molecular Biology Reporter</i> , 1992, 10, 199-206.	1.8	55
46	CALMODULIN-BINDING TRANSCRIPTION ACTIVATOR 6: A Key Regulator of Na ⁺ Homeostasis during Germination. <i>Plant Physiology</i> , 2019, 180, 1101-1118.	4.8	53
47	Hydrotropism: Root Bending Does Not Require Auxin Redistribution. <i>Molecular Plant</i> , 2016, 9, 757-759.	8.3	51
48	Ribosomal protein S12 as a site for streptomycin resistance in <i>Nicotiana</i> chloroplasts. <i>Molecular Genetics and Genomics</i> , 1989, 218, 289-292.	2.4	47
49	A novel site for streptomycin resistance in the 530 loop of chloroplast 16S ribosomal RNA. <i>Plant Molecular Biology</i> , 1989, 12, 499-505.	3.9	47
50	Root Plasticity in the Pursuit of Water. <i>Plants</i> , 2019, 8, 236.	3.5	46
51	The tobacco transcription activator TGA1a binds to a sequence in the 5' upstream region of a gene encoding a TGA1a-related protein. <i>Molecular Genetics and Genomics</i> , 1991, 229, 181-188.	2.4	45
52	Reactive oxygen species tune root tropic responses. <i>Plant Physiology</i> , 2016, 172, pp.00660.2016.	4.8	44
53	Isolation and characterization of two cDNAs that encode for calmodulin-binding proteins from corn root tips. <i>Plant Science</i> , 1993, 94, 109-117.	3.6	43
54	The 58-Kilodalton Calmodulin-Binding Glutamate Decarboxylase Is a Ubiquitous Protein in <i>Petunia</i> Organs and Its Expression Is Developmentally Regulated. <i>Plant Physiology</i> , 1994, 106, 1381-1387.	4.8	43

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55	A transportome-scale amiRNA-based screen identifies redundant roles of Arabidopsis ABCB6 and ABCB20 in auxin transport. <i>Nature Communications</i> , 2018, 9, 4204.	12.8	42
56	Differential regulation of Ca ²⁺ /calmodulin-dependent enzymes by plant calmodulin isoforms and free Ca ²⁺ concentration. <i>Biochemical Journal</i> , 2000, 350, 299.	3.7	40
57	GABA signaling in plants: targeting the missing pieces of the puzzle. <i>Journal of Experimental Botany</i> , 2020, 71, 6238-6245.	4.8	36
58	Developmentally regulated organ-, tissue-, and cell-specific expression of calmodulin genes in common wheat. <i>Plant Molecular Biology</i> , 1998, 37, 109-120.	3.9	34
59	Plant Succinic Semialdehyde Dehydrogenase: Dissection of Nucleotide Binding by Surface Plasmon Resonance and Fluorescence Spectroscopy. <i>Biochemistry</i> , 2000, 39, 10110-10117.	2.5	31
60	Electrophysiological Analysis of Cloned Cyclic Nucleotide-Gated Ion Channels. <i>Plant Physiology</i> , 2002, 128, 400-410.	4.8	25
61	PCR-generated cDNA library of transition-stage maize embryos: cloning and expression of calmodulin genes during early embryogenesis. <i>Plant Molecular Biology</i> , 1995, 27, 105-113.	3.9	24
62	Ca ²⁺ -Responsive cis-Elements in Plants. <i>Plant Signaling and Behavior</i> , 2007, 2, 17-19.	2.4	20
63	A Ca ²⁺ /CaM-regulated transcriptional switch modulates stomatal development in response to water deficit. <i>Scientific Reports</i> , 2019, 9, 12282.	3.3	19
64	An Octopine Synthase Enhancer Element Directs Tissue-Specific Expression and Binds ASF-1, a Factor from Tobacco Nuclear Extracts. <i>Plant Cell</i> , 1989, 1, 977.	6.6	18
65	C-terminal residues of plant glutamate decarboxylase are required for oligomerization of a high-molecular weight complex and for activation by calcium/calmodulin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 872-876.	2.3	16
66	How calmodulin binding transcription activators (CAMTAs) mediate auxin responses. <i>Plant Signaling and Behavior</i> , 2010, 5, 1311-1314.	2.4	16
67	Repression and De-repression of Gene Expression in the Plant Immune Response: The Complexity of Modulation by Ca ²⁺ and Calmodulin. <i>Molecular Plant</i> , 2015, 8, 671-673.	8.3	16
68	The Cholodny-Went theory does not explain hydrotropism. <i>Plant Science</i> , 2016, 252, 400-403.	3.6	16
69	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
70	Expression of a truncated tobacco <i>NtCBP4</i> channel in transgenic plants and disruption of the homologous <i>Arabidopsis CNGC1</i> gene confer Pb ²⁺ tolerance. <i>Plant Journal</i> , 2000, 24, 533-542.	5.7	14
71	Physiological Roles of Cyclic Nucleotide Gated Channels in Plants. <i>Signaling and Communication in Plants</i> , 2009, , 91-106.	0.7	13
72	GABA and GHB Neurotransmitters in Plants and Animals. , 2006, , 171-185.		8

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73	Cybrids in Nicotiana, Solanum and Citrus: Isolation and Characterization of Plastome Mutants: Pre-Fusion Treatments, Selection and Analysis of Cybrids. , 1987, , 199-207.		7
74	Identification and purification of the calcium-regulated Ca ²⁺ -ATPase from the endoplasmic reticulum of a higher plant mechanoreceptor organ. Physiologia Plantarum, 1998, 102, 561-572.	5.2	5
75	Water Sensing in Plants. , 2019, , 79-94.		2
76	Calmodulin and Plant Responses to the Environment. , 2001, , 113-123.		0
77	GABA and GHB Neurotransmitters in Plants and Animals. , 0, , 171-185.		0