Hillel Fromm

List of Publications by Year
in descending order

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76 papers	9,295 citations	50170 46 h-index	82410 72 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.	4.3	960
2	Highway or byway: the metabolic role of the GABA shunt in plants. Trends in Plant Science, 2008, 13, 14-19.	4.3	583
3	Calmodulin as a versatile calcium signal transducer in plants. New Phytologist, 2001, 151, 35-66.	3.5	442
4	PLANT-SPECIFIC CALMODULIN-BINDING PROTEINS. Annual Review of Plant Biology, 2005, 56, 435-466.	8.6	379
5	Mitochondrial succinic-semialdehyde dehydrogenase of the Â-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.	3.3	375
6	Genome of Acanthamoeba castellanii highlights extensive lateral gene transfer and early evolution of tyrosine kinase signaling. Genome Biology, 2013, 14, R11.	13.9	296
7	A tobacco plasma membrane calmodulin-binding transporter confers Ni2+ tolerance and Pb2+ hypersensitivity in transgenic plants. Plant Journal, 1999, 20, 171-182.	2.8	288
8	Rapid Transcriptome Changes Induced by Cytosolic Ca2+ Transients Reveal ABRE-Related Sequences as Ca2+-Responsive cis Elements in Arabidopsis. Plant Cell, 2006, 18, 2733-2748.	3.1	277
9	A Novel Family of Calmodulin-binding Transcription Activators in Multicellular Organisms. Journal of Biological Chemistry, 2002, 277, 21851-21861.	1.6	258
10	Calmodulin, calmodulin-related proteins and plant responses to the environment. Trends in Plant Science, 1998, 3, 299-304.	4.3	229
11	Closing the loop on the GABA shunt in plants: are GABA metabolism and signaling entwined?. Frontiers in Plant Science, 2015, 6, 419.	1.7	215
12	Cyclic nucleotide-gated channels in plants. FEBS Letters, 2007, 581, 2237-2246.	1.3	206
13	Electrophysiological Analysis of Cloned Cyclic Nucleotide-Gated Ion Channels. Plant Physiology, 2002, 128, 400-410.	2.3	198
14	GABA signaling: a conserved and ubiquitous mechanism. Trends in Cell Biology, 2003, 13, 607-610.	3.6	197
15	Transcriptomic analysis of Sorghum bicolor responding to combined heat and drought stress. BMC Genomics, 2014, 15, 456.	1.2	188
16	CAMTAs: Calmodulinâ€binding transcription activators from plants to human. FEBS Letters, 2007, 581, 3893-3898.	1.3	184
17	Calmodulinâ€binding transcription activator (CAMTA) 3 mediates biotic defense responses in Arabidopsis. FEBS Letters, 2008, 582, 943-948.	1.3	183
18	Expression of a truncated tobacco NtCBP4 channel in transgenic plants and disruption of the homologous Arabidopsis CNGC1 gene confer Pb2+ tolerance. Plant Journal, 2000, 24, 533-542.	2.8	173

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19	Calcium-Regulated Transcription in Plants. Molecular Plant, 2010, 3, 653-669.	3.9	163
20	Control of psbA gene expression: in mature Spirodela chloroplasts light regulation of 32-kd protein synthesis is independent of transcript level. EMBO Journal, 1985, 4, 291-295.	3.5	162
21	A mitochondrial GABA permease connects the GABA shunt and the TCA cycle, and is essential for normal carbon metabolism. Plant Journal, 2011, 67, 485-498.	2.8	160
22	Calcium/Calmodulin Activation of Soybean Glutamate Decarboxylase. Plant Physiology, 1995, 108, 543-549.	2.3	155
23	The prenylation status of a novel plant calmodulin directs plasma membrane or nuclear localization of the protein. EMBO Journal, 1999, 18, 1996-2007.	3.5	152
24	Activation of a Recombinant Petunia Glutamate Decarboxylase by Calcium/Calmodulin or by a Monoclonal Antibody Which Recognizes the Calmodulin Binding Domain. Journal of Biological Chemistry, 1996, 271, 4148-4153.	1.6	141
25	Evidence for in vivo trans splicing of pre-mRNAs in tobacco chloroplasts. Cell, 1987, 48, 111-119.	13.5	135
26	Plant Succinic Semialdehyde Dehydrogenase. Cloning, Purification, Localization in Mitochondria, and Regulation by Adenine Nucleotides. Plant Physiology, 1999, 121, 589-598.	2.3	121
27	Molecular and Biochemical Analysis of Calmodulin Interactions with the Calmodulin-Binding Domain of Plant Glutamate Decarboxylase. Plant Physiology, 1995, 108, 551-561.	2.3	120
28	Leaf-Induced Gibberellin Signaling Is Essential for Internode Elongation, Cambial Activity, and Fiber Differentiation in Tobacco Stems Â. Plant Cell, 2012, 24, 66-79.	3.1	117
29	Environmental Conditions Affect the Color, Taste, and Antioxidant Capacity of 11 Pomegranate Accessionsâ€™ Fruits. Journal of Agricultural and Food Chemistry, 2009, 57, 9197-9209.	2.4	116
30	Mitochondrial typeâ€‹ prohibitins of Arabidopsis thaliana are required for supporting proficient meristem development. Plant Journal, 2007, 52, 850-864.	2.8	114
31	GABA shunt deficiencies and accumulation of reactive oxygen intermediates: insight fromArabidopsismutants. FEBS Letters, 2005, 579, 415-420.	1.3	111
32	The root-specific glutamate decarboxylase (GAD1) is essential for sustaining GABA levels in Arabidopsis. Plant Molecular Biology, 2004, 55, 315-325.	2.0	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. Plant Molecular Biology, 2000, 42, 591-601.	2.0	100
34	Calmodulin-binding transcription activator 1 mediates auxin signaling and responds to stresses in Arabidopsis. Planta, 2010, 232, 165-178.	1.6	87
35	Two isoforms of glutamate decarboxylase in Arabidopsis are regulated by calcium/calmodulin and differ in organ distribution. Plant Molecular Biology, 1998, 37, 967-975.	2.0	81
36	Arabidopsis Inositol Polyphosphate 6-/3-Kinase Is a Nuclear Protein That Complements a Yeast Mutant Lacking a Functional ArgR-Mcm1 Transcription Complex. Plant Cell, 2003, 15, 449-463.	3.1	80

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37	Differential regulation of Ca2+/calmodulin-dependent enzymes by plant calmodulin isoforms and free Ca2+ concentration. Biochemical Journal, 2000, 350, 299-306.	1.7	77
38	MIZ1 regulates ECA1 to generate a slow, long-distance phloem-transmitted Ca²⁺signal essential for root water tracking inArabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8031-8036.	3.3	76
39	The molecular basis for rRNA-dependent spectinomycin resistance in Nicotiana chloroplasts. EMBO Journal, 1987, 6, 3233-3237.	3.5	75
40	Mutants of GABA Transaminase (POP2) Suppress the Severe Phenotype of succinic semialdehyde dehydrogenase (ssadh) Mutants in Arabidopsis. PLoS ONE, 2008, 3, e3383.	1.1	74
41	Clone bank of Nicotiana tabacum chloroplast DNA: Mapping of the alpha, beta and epsilon subunits of the ATPase coupling factor, the large subunit of ribulosebisphosphate carboxylase, and the 32-kDal membrane protein. Gene, 1983, 25, 271-280.	1.0	68
42	The enigma of the gene coding for ribosomal protein S12 in the chtoroplasts of Nicotiana. Nucleic Acids Research, 1986, 14, 883-898.	6.5	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 Arabidopsis thaliana Seedlings Exposed to Exogenous GABA Suggest Its Role in Plants Is Predominantly Metabolic. Molecular Plant, 2014, 7, 1065-1068.	3.9	56
45	Cloning of plant cDNAs encoding calmodulin-binding proteins using35S-labeled recombinant calmodulin as a probe. Plant Molecular Biology Reporter, 1992, 10, 199-206.	1.0	55
46	CALMODULIN-BINDING TRANSCRIPTION ACTIVATOR 6: A Key Regulator of Na⁺ Homeostasis during Germination. Plant Physiology, 2019, 180, 1101-1118.	2.3	53
47	Hydrotropism: Root Bending Does Not Require Auxin Redistribution. Molecular Plant, 2016, 9, 757-759.	3.9	51
48	Ribosomal protein S12 as a site for streptomycin resistance in Nicotiana chloroplasts. Molecular Genetics and Genomics, 1989, 218, 289-292.	2.4	47
49	A novel site for streptomycin resistance in the ?530 loop? of chloroplast 16S ribosomal RNA. Plant Molecular Biology, 1989, 12, 499-505.	2.0	47
50	Root Plasticity in the Pursuit of Water. Plants, 2019, 8, 236.	1.6	46
51	The tobacco transcription activator TGA1a binds to a sequence in the 5â€² upstream region of a gene encoding a TGA1a-related protein. Molecular Genetics and Genomics, 1991, 229, 181-188.	2.4	45
52	Reactive oxygen species tune root tropic responses. Plant Physiology, 2016, 172, pp.00660.2016.	2.3	44
53	Isolation and characterization of two cDNAs that encode for calmodulin-binding proteins from corn root tips. Plant Science, 1993, 94, 109-117.	1.7	43
54	The 58-Kilodalton Calmodulin-Binding Glutamate Decarboxylase Is a Ubiquitous Protein in Petunia Organs and Its Expression Is Developmentally Regulated. Plant Physiology, 1994, 106, 1381-1387.	2.3	43

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55	A transportome-scale amiRNA-based screen identifies redundant roles of Arabidopsis ABCB6 and ABCB20 in auxin transport. Nature Communications, 2018, 9, 4204.	5.8	42
56	Differential regulation of Ca2+/calmodulin-dependent enzymes by plant calmodulin isoforms and free Ca2+ concentration. Biochemical Journal, 2000, 350, 299.	1.7	40
57	GABA signaling in plants: targeting the missing pieces of the puzzle. Journal of Experimental Botany, 2020, 71, 6238-6245.	2.4	36
58	Developmentally regulated organ-, tissue-, and cell-specific expression of calmodulin genes in common wheat. Plant Molecular Biology, 1998, 37, 109-120.	2.0	34
59	Plant Succinic Semialdehyde Dehydrogenase:â€‰ Dissection of Nucleotide Binding by Surface Plasmon Resonance and Fluorescence Spectroscopy. Biochemistry, 2000, 39, 10110-10117.	1.2	31
60	PCR-generated cDNA library of transition-stage maize embryos: cloning and expression of calmodulin genes during early embryogenesis. Plant Molecular Biology, 1995, 27, 105-113.	2.0	24
61	Ca²⁺-Responsive cis-Elements in Plants. Plant Signaling and Behavior, 2007, 2, 17-19.	1.2	20
62	A Ca2+/CaM-regulated transcriptional switch modulates stomatal development in response to water deficit. Scientific Reports, 2019, 9, 12282.	1.6	19
63	An Octopine Synthase Enhancer Element Directs Tissue-Specific Expression and Binds ASF-1, a Factor from Tobacco Nuclear Extracts. Plant Cell, 1989, 1, 977.	3.1	18
64	C-terminal residues of plant glutamate decarboxylase are required for oligomerization of a high-molecular weight complex and for activation by calcium/calmodulin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 872-876.	1.1	16
65	How calmodulin binding transcription activators (CAMTAs) mediate auxin responses. Plant Signaling and Behavior, 2010, 5, 1311-1314.	1.2	16
66	Repression and De-repression of Gene Expression in the Plant Immune Response: The Complexity of Modulation by Ca2+ and Calmodulin. Molecular Plant, 2015, 8, 671-673.	3.9	16
67	The Cholodny-Went theory does not explain hydrotropism. Plant Science, 2016, 252, 400-403.	1.7	16
68	SELENOPROTEIN O is a chloroplast protein involved in ROS scavenging and its absence increases dehydration tolerance in Arabidopsis thaliana. Plant Science, 2018, 270, 278-291.	1.7	15
69	Expression of a truncated tobacco NtCBP4 channel in transgenic plants and disruption of the homologous Arabidopsis CNGC1 gene confer Pb²⁺ tolerance. Plant Journal, 2000, 24, 533-542.	2.8	14
70	Physiological Roles of Cyclic Nucleotide Gated Channels in Plants. Signaling and Communication in Plants, 2009, , 91-106.	0.5	13
71	GABA and GHB Neurotransmitters in Plants and Animals. , 2006, , 171-185.		8
72	Cybrids in Nicotiana, Solanum and Citrus: Isolation and Characterization of Plastome Mutants: Pre-Fusion Treatments, Selection and Analysis of Cybrids. , 1987, , 199-207.		7

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73	Identification and purification of the calcium-regulated Ca2+ -ATPase from the endoplasmic reticulum of a higher plant mechanoreceptor organ. Physiologia Plantarum, 1998, 102, 561-572.	2.6	5
74	Water Sensing in Plants. , 2019, , 79-94.		2
75	Calmodulin and Plant Responses to the Environment. , 2001, , 113-123.		0
76	GABA and GHB Neurotransmitters in Plants and Animals. , 0, , 171-185.		0