

Jeffrey F Harper

List of Publications by Year in descending order

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66
papers

9,980
citations

53794

45
h-index

102487

66
g-index

69
all docs

69
docs citations

69
times ranked

8124
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium at the Crossroads of Signaling. <i>Plant Cell</i> , 2002, 14, S401-S417.	6.6	1,076
2	The Arabidopsis CDPK-SnRK Superfamily of Protein Kinases. <i>Plant Physiology</i> , 2003, 132, 666-680.	4.8	898
3	Temperature stress and plant sexual reproduction: uncovering the weakest links. <i>Journal of Experimental Botany</i> , 2010, 61, 1959-1968.	4.8	646
4	CDPKs â€“ a kinase for every Ca ²⁺ signal?. <i>Trends in Plant Science</i> , 2000, 5, 154-159.	8.8	476
5	DECODING Ca ²⁺ SIGNALS THROUGH PLANT PROTEIN KINASES. <i>Annual Review of Plant Biology</i> , 2004, 55, 263-288.	18.7	436
6	Plants, symbiosis and parasites: a calcium signalling connection. <i>Nature Reviews Molecular Cell Biology</i> , 2005, 6, 555-566.	37.0	340
7	Cameleon calcium indicator reports cytoplasmic calcium dynamics in Arabidopsis guard cells. <i>Plant Journal</i> , 1999, 19, 735-747.	5.7	332
8	Genomic Comparison of P-Type ATPase Ion Pumps in Arabidopsis and Rice. <i>Plant Physiology</i> , 2003, 132, 618-628.	4.8	320
9	A plant plasma membrane Ca ²⁺ pump is required for normal pollen tube growth and fertilization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9502-9507.	7.1	293
10	DIVERSITY ANDREGULATION OFPLANTCa ²⁺ PUMPS: Insights from Expression in Yeast. <i>Annual Review of Plant Biology</i> , 2000, 51, 433-462.	14.3	266
11	Orchestrating rapid longâ€distance signaling in plants with Ca ²⁺ , ROS and electrical signals. <i>Plant Journal</i> , 2017, 90, 698-707.	5.7	250
12	A cyclic nucleotide-gated channel is essential for polarized tip growth of pollen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14531-14536.	7.1	248
13	Subcellular Targeting of Nine Calcium-Dependent Protein Kinase Isoforms from Arabidopsis. <i>Plant Physiology</i> , 2003, 132, 1840-1848.	4.8	235
14	Gene expression signatures and small-molecule compounds link a protein kinase to Plasmodium falciparum motility. <i>Nature Chemical Biology</i> , 2008, 4, 347-356.	8.0	203
15	Genetic Identification of an Autoinhibitor in CDPK, a Protein Kinase with a Calmodulin-like Domain. <i>Biochemistry</i> , 1994, 33, 7267-7277.	2.5	195
16	Proteomic profiling of tandem affinity purified 14â€3â€3 protein complexes in <i>Arabidopsis thaliana</i> . <i>Proteomics</i> , 2009, 9, 2967-2985.	2.2	193
17	The CDPK superfamily of protein kinases. <i>New Phytologist</i> , 2001, 151, 175-183.	7.3	188
18	Na,K-ATPase Î²-Subunit Is Required for Epithelial Polarization, Suppression of Invasion, and Cell Motility. <i>Molecular Biology of the Cell</i> , 2001, 12, 279-295.	2.1	180

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19	Calcium-dependent protein kinases regulate polarized tip growth in pollen tubes. <i>Plant Journal</i> , 2009, 59, 528-539.	5.7	179
20	A Fruitful Journey: Pollen Tube Navigation from Germination to Fertilization. <i>Annual Review of Plant Biology</i> , 2019, 70, 809-837.	18.7	176
21	Na,K-ATPase Activity Is Required for Formation of Tight Junctions, Desmosomes, and Induction of Polarity in Epithelial Cells. <i>Molecular Biology of the Cell</i> , 2001, 12, 3717-3732.	2.1	161
22	A Novel Calmodulin-regulated Ca ²⁺ -ATPase (ACA2) from Arabidopsis with an N-terminal Autoinhibitory Domain. <i>Journal of Biological Chemistry</i> , 1998, 273, 1099-1106.	3.4	143
23	A Cyclic Nucleotide-Gated Channel (CNGC16) in Pollen Is Critical for Stress Tolerance in Pollen Reproductive Development. <i>Plant Physiology</i> , 2013, 161, 1010-1020.	4.8	143
24	Calcium and lipid regulation of an Arabidopsis protein kinase expressed in <i>Escherichia coli</i> . <i>Biochemistry</i> , 1993, 32, 3282-3290.	2.5	132
25	Evolution of Plant P-Type ATPases. <i>Frontiers in Plant Science</i> , 2012, 3, 31.	3.6	132
26	Identification of a Calmodulin-Regulated Ca ²⁺ -ATPase in the Endoplasmic Reticulum1. <i>Plant Physiology</i> , 1999, 119, 1165-1176.	4.8	130
27	The Arabidopsis P4-ATPase ALA3 Localizes to the Golgi and Requires a β -Subunit to Function in Lipid Translocation and Secretory Vesicle Formation. <i>Plant Cell</i> , 2008, 20, 658-676.	6.6	129
28	Evidence for a role in growth and salt resistance of a plasma membrane H ⁺ -ATPase in the root endodermis. <i>Plant Journal</i> , 2001, 27, 191-201.	5.7	127
29	14-3-3 proteins activate a plant calcium-dependent protein kinase (CDPK). <i>FEBS Letters</i> , 1998, 430, 381-384.	2.8	122
30	Disruption of the Vacuolar Calcium-ATPases in Arabidopsis Results in the Activation of a Salicylic Acid-Dependent Programmed Cell Death Pathway. <i>Plant Physiology</i> , 2010, 154, 1158-1171.	4.8	111
31	Identification of a Calmodulin-Regulated Soybean Ca ²⁺ -ATPase (SCA1) That Is Located in the Plasma Membrane. <i>Plant Cell</i> , 2000, 12, 1393-1407.	6.6	102
32	The plasma membrane H ⁺ -ATPase gene family in Arabidopsis: genomic sequence of AHA10 which is expressed primarily in developing seeds. <i>Molecular Genetics and Genomics</i> , 1994, 244, 572-587.	2.4	93
33	Activation of a Ca ²⁺ -Dependent Protein Kinase Involves Intramolecular Binding of a Calmodulin-like Regulatory Domain. <i>Biochemistry</i> , 1996, 35, 13222-13230.	2.5	84
34	The ins and outs of cellular Ca ²⁺ transport. <i>Current Opinion in Plant Biology</i> , 2011, 14, 715-720.	7.1	84
35	Calcium-Dependent Protein Kinases from Arabidopsis Show Substrate Specificity Differences in an Analysis of 103 Substrates. <i>Frontiers in Plant Science</i> , 2011, 2, 36.	3.6	80
36	Cyclic Nucleotide Gated Channels 7 and 8 Are Essential for Male Reproductive Fertility. <i>PLoS ONE</i> , 2013, 8, e55277.	2.5	76

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37	Systematic Trans-Genomic Comparison of Protein Kinases between Arabidopsis and Saccharomyces cerevisiae. <i>Plant Physiology</i> , 2003, 132, 2152-2165.	4.8	75
38	Calmodulin Activation of an Endoplasmic Reticulum-Located Calcium Pump Involves an Interaction with the N-Terminal Autoinhibitory Domain. <i>Plant Physiology</i> , 2000, 122, 157-168.	4.8	71
39	A phospholipid uptake system in the model plant Arabidopsis thaliana. <i>Nature Communications</i> , 2015, 6, 7649.	12.8	71
40	Na,K-ATPase Subunits as Markers for Epithelial-Mesenchymal Transition in Cancer and Fibrosis. <i>Molecular Cancer Therapeutics</i> , 2010, 9, 1515-1524.	4.1	68
41	The ACA10 Ca ²⁺ -ATPase Regulates Adult Vegetative Development and Inflorescence Architecture in Arabidopsis. <i>Plant Physiology</i> , 2008, 146, 323-324.	4.8	66
42	Structure of the Regulatory Apparatus of a Calcium-dependent Protein Kinase (CDPK): A Novel Mode of Calmodulin-target Recognition. <i>Journal of Molecular Biology</i> , 2006, 357, 400-410.	4.2	64
43	Plasma membrane H ⁺ -ATPase in the root apex: Evidence for strong expression in xylem parenchyma and asymmetric localization within cortical and epidermal cells. <i>Physiologia Plantarum</i> , 1998, 104, 311-316.	5.2	62
44	Evidence for Differing Roles for Each Lobe of the Calmodulin-like Domain in a Calcium-dependent Protein Kinase. <i>Journal of Biological Chemistry</i> , 2004, 279, 29092-29100.	3.4	62
45	The origin and function of calmodulin regulated Ca ²⁺ pumps in plants. <i>Journal of Bioenergetics and Biomembranes</i> , 2007, 39, 409-414.	2.3	58
46	Autoinhibition of a Calmodulin-dependent Calcium Pump Involves a Structure in the Stalk That Connects the Transmembrane Domain to the ATPase Catalytic Domain. <i>Journal of Biological Chemistry</i> , 2000, 275, 30301-30308.	3.4	45
47	A comparison of heat-stress transcriptome changes between wild-type Arabidopsis pollen and a heat-sensitive mutant harboring a knockout of cyclic nucleotide-gated cation channel 16 (cngc16). <i>BMC Genomics</i> , 2018, 19, 549.	2.8	37
48	Loss of the Arabidopsis thaliana P4-ATPase ALA3 Reduces Adaptability to Temperature Stresses and Impairs Vegetative, Pollen, and Ovule Development. <i>PLoS ONE</i> , 2013, 8, e62577.	2.5	37
49	Intramolecular Activation of a Ca ²⁺ -Dependent Protein Kinase Is Disrupted by Insertions in the Tether That Connects the Calmodulin-like Domain to the Kinase. <i>Biochemistry</i> , 2000, 39, 4004-4011.	2.5	34
50	Loss of the Arabidopsis thaliana P4-ATPases ALA6 and ALA7 impairs pollen fitness and alters the pollen tube plasma membrane. <i>Frontiers in Plant Science</i> , 2015, 6, 197.	3.6	33
51	ACA12 is a deregulated isoform of plasma membrane Ca ²⁺ -ATPase of Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 2014, 84, 387-397.	3.9	30
52	Guard cell endomembrane Ca ²⁺ -ATPases underpin a "carbon memory" of photosynthetic assimilation that impacts on water-use efficiency. <i>Nature Plants</i> , 2021, 7, 1301-1313.	9.3	28
53	Regulation of Na,K-ATPase β 1-subunit in TGF- β 2-mediated epithelial-to-mesenchymal transition in human retinal pigmented epithelial cells. <i>Experimental Eye Research</i> , 2013, 115, 113-122.	2.6	25
54	A Putative Protein <i>OsFuc</i> -Fucosyltransferase Facilitates Pollen Tube Penetration through the Stigma-Style Interface. <i>Plant Physiology</i> , 2018, 176, 2804-2818.	4.8	25

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55	Arabidopsis Ca ²⁺ -ATPases 1, 2, and 7 in the endoplasmic reticulum contribute to growth and pollen fitness. <i>Plant Physiology</i> , 2021, 185, 1966-1985.	4.8	24
56	Enhanced Reproductive Thermotolerance of the Tomato high pigment 2 Mutant Is Associated With Increased Accumulation of Flavonols in Pollen. <i>Frontiers in Plant Science</i> , 2021, 12, 672368.	3.6	18
57	Dynamic membranes: the multiple roles of P4 and P5 ATPases. <i>Plant Physiology</i> , 2021, 185, 619-631.	4.8	13
58	The Lipid Flippases ALA4 and ALA5 Play Critical Roles in Cell Expansion and Plant Growth. <i>Plant Physiology</i> , 2020, 182, 2111-2125.	4.8	11
59	Transgressive, reiterative selection by continuous buoyant density gradient centrifugation of <i>Dunaliella salina</i> results in enhanced lipid and starch content. <i>Algal Research</i> , 2015, 9, 194-203.	4.6	10
60	A Ratiometric Calcium Reporter CGf Reveals Calcium Dynamics Both in the Single Cell and Whole Plant Levels Under Heat Stress. <i>Frontiers in Plant Science</i> , 2021, 12, 777975.	3.6	10
61	OUP accepted manuscript. <i>Plant Physiology</i> , 2021, , .	4.8	9
62	A potential pathway for flippase-facilitated glucosylceramide catabolism in plants. <i>Plant Signaling and Behavior</i> , 2020, 15, 1783486.	2.4	4
63	Reproductive resilience: putting pollen grains in two baskets. <i>Trends in Plant Science</i> , 2022, 27, 237-246.	8.8	3
64	A short critique on biomining technology for critical materials. <i>World Journal of Microbiology and Biotechnology</i> , 2021, 37, 87.	3.6	2
65	Decapitation Crosses to Test Pollen Fertility Mutations for Defects in Stigma-Style Penetration. <i>Methods in Molecular Biology</i> , 2020, 2160, 29-40.	0.9	2
66	Use of directed peptide libraries for discovery of substrates of Arabidopsis CDPKs. <i>FASEB Journal</i> , 2008, 22, 1050.9.	0.5	1