

Frederica L Theodoulou

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

7,650
citations

109137

35
h-index

138251

58
g-index

62
all docs

62
docs citations

62
times ranked

9295
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>Physcomitrella</i> Genome Reveals Evolutionary Insights into the Conquest of Land by Plants. <i>Science</i> , 2008, 319, 64-69.	6.0	1,712
2	Plant ABC proteins – a unified nomenclature and updated inventory. <i>Trends in Plant Science</i> , 2008, 13, 151-159.	4.3	652
3	Homeostatic response to hypoxia is regulated by the N-end rule pathway in plants. <i>Nature</i> , 2011, 479, 415-418.	13.7	576
4	Control of Ascorbate Synthesis by Respiration and Its Implications for Stress Responses. <i>Plant Physiology</i> , 2003, 133, 443-447.	2.3	328
5	Nitric Oxide Sensing in Plants Is Mediated by Proteolytic Control of Group VII ERF Transcription Factors. <i>Molecular Cell</i> , 2014, 53, 369-379.	4.5	312
6	The functions of inter- and intracellular glutathione transport systems in plants. <i>Trends in Plant Science</i> , 2001, 6, 486-492.	4.3	264
7	Jasmonic Acid Levels Are Reduced in COMATOSE ATP-Binding Cassette Transporter Mutants. Implications for Transport of Jasmonate Precursors into Peroxisomes. <i>Plant Physiology</i> , 2005, 137, 835-840.	2.3	248
8	Chewing the fat: β -oxidation in signalling and development. <i>Trends in Plant Science</i> , 2006, 11, 124-132.	4.3	237
9	ABC transporter research: going strong 40 years on. <i>Biochemical Society Transactions</i> , 2015, 43, 1033-1040.	1.6	231
10	Plant ABC transporters. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000, 1465, 79-103.	1.4	222
11	Ethylene-mediated nitric oxide depletion pre-adapts plants to hypoxia stress. <i>Nature Communications</i> , 2019, 10, 4020.	5.8	195
12	The N-end rule pathway promotes seed germination and establishment through removal of ABA sensitivity in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4549-4554.	3.3	172
13	Seed after-ripening is a discrete developmental pathway associated with specific gene networks in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2008, 53, 214-224.	2.8	166
14	Cloning and Functional Characterization of a Brassica napus Transporter That Is Able to Transport Nitrate and Histidine. <i>Journal of Biological Chemistry</i> , 1998, 273, 12017-12023.	1.6	136
15	Seed storage oil catabolism: a story of give and take. <i>Current Opinion in Plant Biology</i> , 2012, 15, 322-328.	3.5	135
16	Intrinsic acyl-CoA thioesterase activity of a peroxisomal ATP binding cassette transporter is required for transport and metabolism of fatty acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1279-1284.	3.3	134
17	Coordinate induction of glutathione biosynthesis and glutathione-metabolizing enzymes is correlated with salt tolerance in tomato. <i>FEBS Letters</i> , 2003, 554, 417-421.	1.3	132
18	Peroxisomal ABC transporters. <i>FEBS Letters</i> , 2006, 580, 1139-1155.	1.3	103

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19	Peroxisomal ATP Import Is Essential for Seedling Development in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2009, 20, 3241-3257.	3.1	102
20	Yeast complementation reveals a role for an <i>Arabidopsis thaliana</i> late embryogenesis abundant (LEA)-like protein in oxidative stress tolerance. <i>Plant Journal</i> , 2006, 48, 743-756.	2.8	96
21	Mammalian peroxisomal ABC transporters: from endogenous substrates to pathology and clinical significance. <i>British Journal of Pharmacology</i> , 2011, 164, 1753-1766.	2.7	93
22	A novel function for a redox-related LEA protein (<i>SAG21/AtLEA5</i>) in root development and biotic stress responses. <i>Plant, Cell and Environment</i> , 2012, 35, 418-429.	2.8	93
23	Gene Expression Profiling Reveals Defined Functions of the ATP-Binding Cassette Transporter COMATOSE Late in Phase II of Germination. <i>Plant Physiology</i> , 2007, 143, 1669-1679.	2.3	90
24	The COMATOSE ATP-Binding Cassette Transporter Is Required for Full Fertility in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2007, 144, 1467-1480.	2.3	85
25	Ascorbate content of wheat leaves is not determined by maximal l-galactono-1,4-lactone dehydrogenase (GalLDH) activity under drought stress. <i>Plant, Cell and Environment</i> , 2005, 28, 1073-1081.	2.8	84
26	The ins and outs of peroxisomes: Co-ordination of membrane transport and peroxisomal metabolism. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 1527-1540.	1.9	75
27	Co-induction of glutathione-S-transferases and multidrug resistance associated protein by xenobiotics in wheat. <i>Pest Management Science</i> , 2003, 59, 202-214.	1.7	73
28	Peroxisomal ABC transporters: functions and mechanism. <i>Biochemical Society Transactions</i> , 2015, 43, 959-965.	1.6	71
29	The <i>Arabidopsis</i> Peroxisomal ABC Transporter, Comatose, Complements the <i>Saccharomyces cerevisiae</i> <i>pxa1 pxa2^Δ</i> Mutant for Metabolism of Long-chain Fatty Acids and Exhibits Fatty Acyl-CoA-stimulated ATPase Activity. <i>Journal of Biological Chemistry</i> , 2010, 285, 29892-29902.	1.6	64
30	Analysis of the role of COMATOSE and peroxisomal beta-oxidation in the determination of germination potential in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2006, 57, 2805-2814.	2.4	60
31	A High Affinity Fungal Nitrate Carrier with Two Transport Mechanisms. <i>Journal of Biological Chemistry</i> , 2000, 275, 39894-39899.	1.6	57
32	Coenzyme A and its derivatives: renaissance of a textbook classic. <i>Biochemical Society Transactions</i> , 2014, 42, 1025-1032.	1.6	56
33	Peroxisome membrane proteins: multiple trafficking routes and multiple functions?. <i>Biochemical Journal</i> , 2013, 451, 345-352.	1.7	54
34	Netrinomics reveals control of <i>Arabidopsis</i> seed storage proteins and proteases by the Arg/N-end rule pathway. <i>New Phytologist</i> , 2018, 218, 1106-1126.	3.5	44
35	Mutations in the <i>Arabidopsis</i> Peroxisomal ABC Transporter COMATOSE Allow Differentiation between Multiple Functions In <i>Planta</i> : Insights from an Allelic Series. <i>Molecular Biology of the Cell</i> , 2009, 20, 530-543.	0.9	43
36	Conservation of targeting but divergence in function and quality control of peroxisomal ABC transporters: an analysis using cross-kingdom expression. <i>Biochemical Journal</i> , 2011, 436, 547-557.	1.7	41

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37	Quantitative proteomics analysis of the Arg/N-end rule pathway of targeted degradation in Arabidopsis roots. <i>Proteomics</i> , 2015, 15, 2447-2457.	1.3	37
38	Cloning and characterisation of a novel P-glycoprotein homologue from barley. <i>Gene</i> , 1997, 199, 195-202.	1.0	36
39	Ethylene augments root hypoxia tolerance via growth cessation and reactive oxygen species amelioration. <i>Plant Physiology</i> , 2022, 190, 1365-1383.	2.3	30
40	Metabolite Transporters of the Plant Peroxisomal Membrane: Known and Unknown. <i>Sub-Cellular Biochemistry</i> , 2013, 69, 169-194.	1.0	29
41	Comparison of mitochondrial ascorbate peroxidase in the cultivated tomato, <i>Lycopersicon esculentum</i> , and its wild, salt-tolerant relative, <i>L. pennellii</i> - a role for matrix isoforms in protection against oxidative damage. <i>Plant, Cell and Environment</i> , 2004, 27, 237-250.	2.8	28
42	BIG Regulates Dynamic Adjustment of Circadian Period in <i>Arabidopsis thaliana</i> . <i>Plant Physiology</i> , 2018, 178, 358-371.	2.3	27
43	Barley has two peroxisomal ABC transporters with multiple functions in $\hat{1}^2$ -oxidation. <i>Journal of Experimental Botany</i> , 2014, 65, 4833-4847.	2.4	26
44	3,4-Dichloroaniline is detoxified and exported via different pathways in Arabidopsis and soybean. <i>Phytochemistry</i> , 2003, 63, 653-661.	1.4	22
45	Tandem Fluorescent Protein Timers for Noninvasive Relative Protein Lifetime Measurement in Plants. <i>Plant Physiology</i> , 2019, 180, 718-731.	2.3	22
46	Isolation and characterisation of two multidrug resistance associated protein genes from maize. <i>Gene</i> , 2003, 315, 153-164.	1.0	21
47	Genetic interactions between ABA signalling and the Arg/N-end rule pathway during Arabidopsis seedling establishment. <i>Scientific Reports</i> , 2018, 8, 15192.	1.6	20
48	The <i>Saccharomyces cerevisiae</i> ABC subfamily D transporter Pxa1/Pxa2p co-imports CoASH into the peroxisome. <i>FEBS Letters</i> , 2021, 595, 763-772.	1.3	18
49	How to move an amphipathic molecule across a lipid bilayer: different mechanisms for different ABC transporters?. <i>Biochemical Society Transactions</i> , 2016, 44, 774-782.	1.6	16
50	Pseudo half-molecules of the ABC transporter, COMATOSE, bind Pex19 and target to peroxisomes independently but are both required for activity. <i>FEBS Letters</i> , 2012, 586, 2280-2286.	1.3	14
51	Mutagenesis separates ATPase and thioesterase activities of the peroxisomal ABC transporter, Comatose. <i>Scientific Reports</i> , 2019, 9, 10502.	1.6	14
52	Xenopus oocytes as a heterologous expression system for plant proteins. <i>Molecular Biotechnology</i> , 1995, 3, 101-115.	1.3	12
53	The Arabidopsis thaliana N-recognin E3 ligase PROTEOLYSIS1 influences the immune response. <i>Plant Direct</i> , 2019, 3, e00194.	0.8	12
54	The NBDs that wouldn't die. <i>Communicative and Integrative Biology</i> , 2009, 2, 97-99.	0.6	8

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55	Calmodulin-stimulated ATPase of maize cells: functional reconstitution, monoclonal antibodies and subcellular localization. <i>Journal of Experimental Botany</i> , 1994, 45, 1553-1564.	2.4	6
56	The NBDs that wouldn't die: A cautionary tale of the use of isolated nucleotide binding domains of ABC transporters. <i>Communicative and Integrative Biology</i> , 2009, 2, 97-9.	0.6	6
57	Peroxisomal Transport Systems: Roles in Signaling and Metabolism. <i>Signaling and Communication in Plants</i> , 2011, , 327-351.	0.5	3
58	Plant Peroxisomal ABC Transporters: Flexible and Unusual. <i>Signaling and Communication in Plants</i> , 2014, , 77-101.	0.5	2
59	Plant Peroxisomes: Protein Import, Dynamics, and Metabolite Transport. , 2014, , 1-25.		2