Frederica L Theodoulou

List of Publications by Year
in descending order

59	7,650	109137	138251
papers	citations	35 h-index	58 g-index

62	62	62	9295
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ethylene augments root hypoxia tolerance via growth cessation and reactive oxygen species amelioration. Plant Physiology, 2022, 190, 1365-1383.	2.3	30
2	The SaccharomycesÂcerevisiae ABC subfamily D transporter Pxa1/Pxa2p coâ€imports CoASH into the peroxisome. FEBS Letters, 2021, 595, 763-772.	1.3	18
3	Mutagenesis separates ATPase and thioesterase activities of the peroxisomal ABC transporter, Comatose. Scientific Reports, 2019, 9, 10502.	1.6	14
4	Ethylene-mediated nitric oxide depletion pre-adapts plants to hypoxia stress. Nature Communications, 2019, 10, 4020.	5.8	195
5	Tandem Fluorescent Protein Timers for Noninvasive Relative Protein Lifetime Measurement in Plants. Plant Physiology, 2019, 180, 718-731.	2.3	22
6	The Arabidopsis thaliana Nâ€recognin E3 ligase PROTEOLYSIS1 influences the immune response. Plant Direct, 2019, 3, e00194.	0.8	12
7	Nâ€terminomics reveals control of Arabidopsis seed storage proteins and proteases by the Arg/Nâ€end rule pathway. New Phytologist, 2018, 218, 1106-1126.	3.5	44
8	Genetic interactions between ABA signalling and the Arg/N-end rule pathway during Arabidopsis seedling establishment. Scientific Reports, 2018, 8, 15192.	1.6	20
9	BIG Regulates Dynamic Adjustment of Circadian Period in Arabidopsis thaliana. Plant Physiology, 2018, 178, 358-371.	2.3	27
10	How to move an amphipathic molecule across a lipid bilayer: different mechanisms for different ABC transporters?. Biochemical Society Transactions, 2016, 44, 774-782.	1.6	16
11	Peroxisomal ABC transporters: functions and mechanism. Biochemical Society Transactions, 2015, 43, 959-965.	1.6	71
12	ABC transporter research: going strong 40 years on. Biochemical Society Transactions, 2015, 43, 1033-1040.	1.6	231
13	Quantitative proteomics analysis of the Arg/Nâ€end rule pathway of targeted degradation in Arabidopsis roots. Proteomics, 2015, 15, 2447-2457.	1.3	37
14	Coenzyme A and its derivatives: renaissance of a textbook classic. Biochemical Society Transactions, 2014, 42, 1025-1032.	1.6	56
15	Plant Peroxisomal ABC Transporters: Flexible and Unusual. Signaling and Communication in Plants, 2014, , 77-101.	0.5	2
16	Barley has two peroxisomal ABC transporters with multiple functions in Î²-oxidation. Journal of Experimental Botany, 2014, 65, 4833-4847.	2.4	26
17	Nitric Oxide Sensing in Plants Is Mediated by Proteolytic Control of Group VII ERF Transcription Factors. Molecular Cell, 2014, 53, 369-379.	4.5	312
18	Plant Peroxisomes: Protein Import, Dynamics, and Metabolite Transport. , 2014, , 1-25.		2

#	Article	IF	Citations
19	Metabolite Transporters of the Plant Peroxisomal Membrane: Known and Unknown. Sub-Cellular Biochemistry, 2013, 69, 169-194.	1.0	29
20	Peroxisome membrane proteins: multiple trafficking routes and multiple functions?. Biochemical Journal, 2013, 451, 345-352.	1.7	54
21	Intrinsic acyl-CoA thioesterase activity of a peroxisomal ATP binding cassette transporter is required for transport and metabolism of fatty acids. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1279-1284.	3.3	134
22	Pseudo halfâ€molecules of the ABC transporter, COMATOSE, bind Pex19 and target to peroxisomes independently but are both required for activity. FEBS Letters, 2012, 586, 2280-2286.	1.3	14
23	A novel function for a redoxâ€related LEA protein (SAG21/AtLEA5) in root development and biotic stress responses. Plant, Cell and Environment, 2012, 35, 418-429.	2.8	93
24	Seed storage oil catabolism: a story of give and take. Current Opinion in Plant Biology, 2012, 15, 322-328.	3.5	135
25	Peroxisomal Transport Systems: Roles in Signaling and Metabolism. Signaling and Communication in Plants, 2011, , 327-351.	0.5	3
26	Mammalian peroxisomal ABC transporters: from endogenous substrates to pathology and clinical significance. British Journal of Pharmacology, 2011, 164, 1753-1766.	2.7	93
27	Homeostatic response to hypoxia is regulated by the N-end rule pathway in plants. Nature, 2011, 479, 415-418.	13.7	576
28	Conservation of targeting but divergence in function and quality control of peroxisomal ABC transporters: an analysis using cross-kingdom expression. Biochemical Journal, 2011, 436, 547-557.	1.7	41
29	The Arabidopsis Peroxisomal ABC Transporter, Comatose, Complements the Saccharomyces cerevisiae pxa1 pxa2Î" Mutant for Metabolism of Long-chain Fatty Acids and Exhibits Fatty Acyl-CoA-stimulated ATPase Activity. Journal of Biological Chemistry, 2010, 285, 29892-29902.	1.6	64
30	The N-end rule pathway promotes seed germination and establishment through removal of ABA sensitivity in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4549-4554.	3.3	172
31	Peroxisomal ATP Import Is Essential for Seedling Development inArabidopsis thaliana. Plant Cell, 2009, 20, 3241-3257.	3.1	102
32	The NBDs that wouldn't die. Communicative and Integrative Biology, 2009, 2, 97-99.	0.6	8
33	Mutations in the Arabidopsis Peroxisomal ABC Transporter COMATOSE Allow Differentiation between Multiple Functions In Planta: Insights from an Allelic Series. Molecular Biology of the Cell, 2009, 20, 530-543.	0.9	43
34	The NBDs that wouldn't die: A cautionary tale of the use of isolated nucleotide binding domains of ABC transporters. Communicative and Integrative Biology, 2009, 2, 97-9.	0.6	6
35	Seed afterâ€ripening is a discrete developmental pathway associated with specific gene networks in Arabidopsis. Plant Journal, 2008, 53, 214-224.	2.8	166
36	Plant ABC proteins â€" a unified nomenclature and updated inventory. Trends in Plant Science, 2008, 13, 151-159.	4.3	652

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37	The Physcomitrella Genome Reveals Evolutionary Insights into the Conquest of Land by Plants. Science, 2008, 319, 64-69.	6.0	1,712
38	Gene Expression Profiling Reveals Defined Functions of the ATP-Binding Cassette Transporter COMATOSE Late in Phase II of Germination. Plant Physiology, 2007, 143, 1669-1679.	2.3	90
39	The COMATOSE ATP-Binding Cassette Transporter Is Required for Full Fertility in Arabidopsis. Plant Physiology, 2007, 144, 1467-1480.	2.3	85
40	Peroxisomal ABC transporters. FEBS Letters, 2006, 580, 1139-1155.	1.3	103
41	Chewing the fat: Î²-oxidation in signalling and development. Trends in Plant Science, 2006, 11, 124-132.	4.3	237
42	Yeast complementation reveals a role for anArabidopsis thalianalate embryogenesis abundant (LEA)-like protein in oxidative stress tolerance. Plant Journal, 2006, 48, 743-756.	2.8	96
43	The ins and outs of peroxisomes: Co-ordination of membrane transport and peroxisomal metabolism. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1527-1540.	1.9	75
44	Analysis of the role of COMATOSE and peroxisomal beta-oxidation in the determination of germination potential in Arabidopsis. Journal of Experimental Botany, 2006, 57, 2805-2814.	2.4	60
45	Ascorbate content of wheat leaves is not determined by maximal l-galactono-1,4-lactone dehydrogenase (GalLDH) activity under drought stress. Plant, Cell and Environment, 2005, 28, 1073-1081.	2.8	84
46	Jasmonic Acid Levels Are Reduced in COMATOSE ATP-Binding Cassette Transporter Mutants. Implications for Transport of Jasmonate Precursors into Peroxisomes. Plant Physiology, 2005, 137, 835-840.	2.3	248
47	Comparison of mitochondrial ascorbate peroxidase in the cultivated tomato, Lycopersicon esculentum, and its wild, salt-tolerant relative, L. pennellii- a role for matrix isoforms in protection against oxidative damage. Plant, Cell and Environment, 2004, 27, 237-250.	2.8	28
48	3,4-Dichloroaniline is detoxified and exported via different pathways in Arabidopsis and soybean. Phytochemistry, 2003, 63, 653-661.	1.4	22
49	Co-induction of glutathione-S-transferases and multidrug resistance associated protein by xenobiotics in wheat. Pest Management Science, 2003, 59, 202-214.	1.7	73
50	Coordinate induction of glutathione biosynthesis and glutathione-metabolizing enzymes is correlated with salt tolerance in tomato. FEBS Letters, 2003, 554, 417-421.	1.3	132
51	Isolation and characterisation of two multidrug resistance associated protein genes from maize. Gene, 2003, 315, 153-164.	1.0	21
52	Control of Ascorbate Synthesis by Respiration and Its Implications for Stress Responses. Plant Physiology, 2003, 133, 443-447.	2.3	328
53	The functions of inter- and intracellular glutathione transport systems in plants. Trends in Plant Science, 2001, 6, 486-492.	4.3	264
54	A High Affinity Fungal Nitrate Carrier with Two Transport Mechanisms. Journal of Biological Chemistry, 2000, 275, 39894-39899.	1.6	57

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55	Plant ABC transporters. Biochimica Et Biophysica Acta - Biomembranes, 2000, 1465, 79-103.	1.4	222
56	Cloning and Functional Characterization of a Brassica napus Transporter That Is Able to Transport Nitrate and Histidine. Journal of Biological Chemistry, 1998, 273, 12017-12023.	1.6	136
57	Cloning and characterisation of a novel P-glycoprotein homologue from barley. Gene, 1997, 199, 195-202.	1.0	36
58	Xenopus oocytes as a heterologous expression system for plant proteins. Molecular Biotechnology, 1995, 3, 101-115.	1.3	12
59	Calmodulin-stimulated ATPase of maize cells: functional reconstitution, monoclonal antibodies and subcellular localization. Journal of Experimental Botany, 1994, 45, 1553-1564.	2.4	6