Enrico Martinoia

List of Publications by Year
in descending order

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196 papers	28,675 citations	2802 94 h-index	5539 163 g-index
254 all docs	254 docs citations	254 times ranked	20848 citing authors

#	Article	IF	Citations
1	Arabidopsis <scp>ABCG27</scp> plays an essential role in flower and leaf development by modulating abscisic acid content. Physiologia Plantarum, 2022, 174, .	5.2	3
2	An ABC transporter of the ABCC subfamily localized at the plasma membrane confers glyphosate resistance. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2104746118.	7.1	4
3	An evergreen mind and a heart for the colors of fall. Journal of Experimental Botany, 2021, 72, 4625-4633.	4.8	4
4	2021 update on ATP-binding cassette (ABC) transporters: how they meet the needs of plants. Plant Physiology, 2021, 187, 1876-1892.	4.8	48
5	Identification of an Isoflavonoid Transporter Required for the Nodule Establishment of the Rhizobium-Fabaceae Symbiotic Interaction. Frontiers in Plant Science, 2021, 12, 758213.	3.6	12
6	Structural and functional diversity calls for a new classification of ABC transporters. FEBS Letters, 2020, 594, 3767-3775.	2.8	169
7	How to survive on low potassium. Nature Plants, 2020, 6, 332-333.	9.3	4
8	The Full-Size ABCG Transporter of Medicago truncatula Is Involved in Strigolactone Secretion, Affecting Arbuscular Mycorrhiza. Frontiers in Plant Science, 2020, 11, 18.	3.6	43
9	Non-intrinsic ATP-binding cassette proteins ABCI19, ABCI20 and ABCI21 modulate cytokinin response at the endoplasmic reticulum in Arabidopsis thaliana. Plant Cell Reports, 2020, 39, 473-487.	5.6	16
10	Transportomics for the Characterization of Plant Apocarotenoid Transmembrane Transporters. Methods in Molecular Biology, 2020, 2083, 89-99.	0.9	3
11	How Can We Interpret the Large Number and Diversity of ABA Transporters?. Progress in Botany Fortschritte Der Botanik, 2020, , 233-257.	0.3	1
12	Strigolactones Play an Important Role in Shaping Exodermal Morphology via a KAI2-Dependent Pathway. IScience, 2019, 17, 144-154.	4.1	24
13	ABCG36/PEN3/PDR8 Is an Exporter of the Auxin Precursor, Indole-3-Butyric Acid, and Involved in Auxin-Controlled Development. Frontiers in Plant Science, 2019, 10, 899.	3.6	22
14	ABCC transporters mediate the vacuolar accumulation of crocins in saffron stigmas. Plant Cell, 2019, 31, tpc.00193.2019.	6.6	36
15	Mt<scp>ABCG</scp>20 is an <scp>ABA</scp> exporter influencing root morphology and seed germination of Medicago truncatula. Plant Journal, 2019, 98, 511-523.	5.7	45
16	Arabidopsis ABCG28 is required for the apical accumulation of reactive oxygen species in growing pollen tubes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12540-12549.	7.1	36
17	Ideal Cereals With Lower Arsenic and Cadmium by Accurately Enhancing Vacuolar Sequestration Capacity. Frontiers in Genetics, 2019, 10, 322.	2.3	41
18	Abscisic acid is a substrate of the <scp>ABC</scp> transporter encoded by the durable wheat disease resistance gene Lr34. New Phytologist, 2019, 223, 853-866.	7.3	102

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19	Engineering rice with lower grain arsenic. Plant Biotechnology Journal, 2018, 16, 1691-1699.	8.3	64
20	The Vacuolar Transportome of Plant Specialized Metabolites. Plant and Cell Physiology, 2018, 59, 1326-1336.	3.1	46
21	Vacuolar Transporters for Cadmium and Arsenic in Plants and their Applications in Phytoremediation and Crop Development. Plant and Cell Physiology, 2018, 59, 1317-1325.	3.1	69
22	Vacuolar Transporters â€“ Companions on a Longtime Journey. Plant Physiology, 2018, 176, 1384-1407.	4.8	77
23	Changes in the allocation of endogenous strigolactone improve plant biomass production on phosphateâ€poor soils. New Phytologist, 2018, 217, 784-798.	7.3	48
24	Feed Your Friends: Do Plant Exudates Shape the Root Microbiome?. Trends in Plant Science, 2018, 23, 25-41.	8.8	1,256
25	Functions of ABC transporters in plant growth and development. Current Opinion in Plant Biology, 2018, 41, 32-38.	7.1	186
26	A rice Serine/Threonine receptor-like kinase regulates arbuscular mycorrhizal symbiosis at the peri-arbuscular membrane. Nature Communications, 2018, 9, 4677.	12.8	45
27	The wheat ABC transporter Lr34 modifies the lipid environment at the plasma membrane. Journal of Biological Chemistry, 2018, 293, 18667-18679.	3.4	26
28	Genome-wide analysis of ATP binding cassette (ABC) transporters in tomato. PLoS ONE, 2018, 13, e0200854.	2.5	68
29	The Multifaceted Roles of Plant Vacuoles. Plant and Cell Physiology, 2018, 59, 1285-1287.	3.1	8
30	Identification of amino acid residues important for the arsenic resistance function of Arabidopsis <scp>ABCC</scp>1. FEBS Letters, 2017, 591, 656-666.	2.8	15
31	An N-acetylglucosamine transporter required for arbuscular mycorrhizal symbioses in rice and maize. Nature Plants, 2017, 3, 17073.	9.3	72
32	Emerging Jasmonate Transporters. Molecular Plant, 2017, 10, 659-661.	8.3	19
33	Cytokinin Transporters: GO and STOP in Signaling. Trends in Plant Science, 2017, 22, 455-461.	8.8	49
34	ABA-Induced Stomatal Closure Involves ALMT4, a Phosphorylation-Dependent Vacuolar Anion Channel of Arabidopsis. Plant Cell, 2017, 29, 2552-2569.	6.6	80
35	Arabidopsis ABCG34 contributes to defense against necrotrophic pathogens by mediating the secretion of camalexin. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5712-E5720.	7.1	71
36	Root avoidance of toxic metals requires the GeBPâ€LIKE 4 transcription factor in Arabidopsis thaliana. New Phytologist, 2017, 213, 1257-1273.	7.3	56

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37	Plant hormone transporters: what we know and what we would like to know. BMC Biology, 2017, 15, 93.	3.8	129
38	The importance of strigolactone transport regulation for symbiotic signaling and shoot branching. Planta, 2016, 243, 1351-1360.	3.2	57
39	Vacuolar Chloride Fluxes Impact Ion content and Distribution during Early Salinity Stress. Plant Physiology, 2016, 172, pp.00183.2016.	4.8	45
40	Petunia hybrida PDR2 is involved in herbivore defense by controlling steroidal contents in trichomes. Plant, Cell and Environment, 2016, 39, 2725-2739.	5.7	34
41	Postmeiotic development of pollen surface layers requires two Arabidopsis ABCG-type transporters. Plant Cell Reports, 2016, 35, 1863-1873.	5.6	47
42	Function of the Golgi-located phosphate transporter PHT4;6 is critical for senescence-associated processes in Arabidopsis. Journal of Experimental Botany, 2016, 67, 4671-4684.	4.8	19
43	The Arabidopsis tonoplast is almost devoid of glycoproteins with complexN-glycans, unlike the rat lysosomal membrane. Journal of Experimental Botany, 2016, 67, 1769-1781.	4.8	20
44	Plant ABC Transporters Enable Many Unique Aspects of a Terrestrial Plant's Lifestyle. Molecular Plant, 2016, 9, 338-355.	8.3	302
45	Toward a Molecular Understanding of Plant Hormone Actions. Molecular Plant, 2016, 9, 1-3.	8.3	7
46	Enhanced Photosynthesis and Growth in atquac1 Knockout Mutants Are Due to Altered Organic Acid Accumulation and an Increase in Both Stomatal and Mesophyll Conductance. Plant Physiology, 2016, 170, 86-101.	4.8	77
47	Rice <scp>PCR1</scp> influences grain weight and <scp>Z</scp>n accumulation in grains. Plant, Cell and Environment, 2015, 38, 2327-2339.	5.7	56
48	The role of ABCG-type ABC transporters in phytohormone transport. Biochemical Society Transactions, 2015, 43, 924-930.	3.4	104
49	Plant vacuoles. Current Biology, 2015, 25, R136-R137.	3.9	22
50	Asymmetric Localizations of the ABC Transporter PaPDR1 Trace Paths of Directional Strigolactone Transport. Current Biology, 2015, 25, 647-655.	3.9	117
51	Wounding of Arabidopsis halleri leaves enhances cadmium accumulation that acts as a defense against herbivory. BioMetals, 2015, 28, 521-528.	4.1	25
52	Multiomics in Grape Berry Skin Revealed Specific Induction of the Stilbene Synthetic Pathway by Ultraviolet-C Irradiation. Plant Physiology, 2015, 168, 47-59.	4.8	60
53	Organellar channels and transporters. Cell Calcium, 2015, 58, 1-10.	2.4	83
54	Plant adaptations to severely phosphorus-impoverished soils. Current Opinion in Plant Biology, 2015, 25, 23-31.	7.1	157

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55	Abscisic acid transporters cooperate to control seed germination. Nature Communications, 2015, 6, 8113.	12.8	193
56	SWEET17, a Facilitative Transporter, Mediates Fructose Transport across the Tonoplast of Arabidopsis Roots and Leaves Â Â. Plant Physiology, 2014, 164, 777-789.	4.8	212
57	Phytochelatinâ€“metal(loid) transport into vacuoles shows different substrate preferences in barley and <scp>A</scp>rabidopsis. Plant, Cell and Environment, 2014, 37, 1192-1201.	5.7	134
58	ABC Transporters and Heavy Metals. Signaling and Communication in Plants, 2014, , 1-17.	0.7	18
59	Phosphorylation of the vacuolar anion exchanger AtCLCa is required for the stomatal response to abscisic acid. Science Signaling, 2014, 7, ra65.	3.6	74
60	Root exudates: the hidden part of plant defense. Trends in Plant Science, 2014, 19, 90-98.	8.8	537
61	A rice ABC transporter, OsABCC1, reduces arsenic accumulation in the grain. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15699-15704.	7.1	406
62	Cytosolic Nucleotides Block and Regulate the Arabidopsis Vacuolar Anion Channel AtALMT9. Journal of Biological Chemistry, 2014, 289, 25581-25589.	3.4	20
63	The seco-iridoid pathway from Catharanthus roseus. Nature Communications, 2014, 5, 3606.	12.8	355
64	Arabidopsis ABCG14 is essential for the root-to-shoot translocation of cytokinin. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7150-7155.	7.1	271
65	Vacuolar proton pumping: more than the sum of its parts?. Trends in Plant Science, 2014, 19, 344-346.	8.8	23
66	A proteomics approach to investigate the process of <scp>Z</scp>n hyperaccumulation in <scp>N</scp>occaea caerulescens (<scp>J</scp> & <scp>C</scp>. <scp>P</scp>resl) <scp>F</scp>.<scp>K</scp>. <scp>M</scp>eyer. Plant Journal, 2013, 73, 131-142.	5.7	59
67	AtALMT9 is a malate-activated vacuolar chloride channel required for stomatal opening in Arabidopsis. Nature Communications, 2013, 4, 1804.	12.8	196
68	Transgenic poplar trees expressing yeast cadmium factor 1 exhibit the characteristics necessary for the phytoremediation of mine tailing soil. Chemosphere, 2013, 90, 1478-1486.	8.2	111
69	Identification of a Probable Pore-Forming Domain in the Multimeric Vacuolar Anion Channel AtALMT9 Â Â. Plant Physiology, 2013, 163, 830-843.	4.8	31
70	ArabidopsisÂWAT1 is a vacuolar auxin transport facilitator required for auxin homoeostasis. Nature Communications, 2013, 4, 2625.	12.8	249
71	ABCC1, an ATP Binding Cassette Protein from Grape Berry, Transports Anthocyanidin 3-O-Glucosides. Plant Cell, 2013, 25, 1840-1854.	6.6	218
72	Vacuolar Transport of Abscisic Acid Glucosyl Ester Is Mediated by ATP-Binding Cassette and Proton-Antiport Mechanisms in Arabidopsis. Plant Physiology, 2013, 163, 1446-1458.	4.8	114

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73	AtABCA9 transporter supplies fatty acids for lipid synthesis to the endoplasmic reticulum. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 773-778.	7.1	103
74	C-Terminus-Mediated Voltage Gating of Arabidopsis Guard Cell Anion Channel QUAC1. Molecular Plant, 2013, 6, 1550-1563.	8.3	48
75	Luminal and Cytosolic pH Feedback on Proton Pump Activity and ATP Affinity of V-type ATPase from Arabidopsis. Journal of Biological Chemistry, 2012, 287, 8986-8993.	3.4	36
76	AtABCG29 Is a Monolignol Transporter Involved in Lignin Biosynthesis. Current Biology, 2012, 22, 1207-1212.	3.9	265
77	Lack of the Golgi phosphate transporter PHT4;6 causes strong developmental defects, constitutively activated disease resistance mechanisms and altered intracellular phosphate compartmentation in Arabidopsis. Plant Journal, 2012, 72, 732-744.	5.7	49
78	A petunia ABC protein controls strigolactone-dependent symbiotic signalling and branching. Nature, 2012, 483, 341-344.	27.8	502
79	Plant Lessons: Exploring ABCB Functionality Through Structural Modeling. Frontiers in Plant Science, 2012, 2, 108.	3.6	46
80	Vacuolar Transporters in Their Physiological Context. Annual Review of Plant Biology, 2012, 63, 183-213.	18.7	210
81	The phytochelatin transporters AtABCC1 and AtABCC2 mediate tolerance to cadmium and mercury. Plant Journal, 2012, 69, 278-288.	5.7	506
82	Cold acclimation induces changes in Arabidopsis tonoplast protein abundance and activity and alters phosphorylation of tonoplast monosaccharide transporters. Plant Journal, 2012, 69, 529-541.	5.7	116
83	Brassica juncea plant cadmium resistance 1 protein (BjPCR1) facilitates the radial transport of calcium in the root. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19808-19813.	7.1	45
84	Plant ABC Transporters. The Arabidopsis Book, 2011, 9, e0153.	0.5	401
85	Functions of ABC transporters in plants. Essays in Biochemistry, 2011, 50, 145-160.	4.7	110
86	Antisense Inhibition of the Iron-Sulphur Subunit of Succinate Dehydrogenase Enhances Photosynthesis and Growth in Tomato via an Organic Acidâ€“Mediated Effect on Stomatal Aperture Â. Plant Cell, 2011, 23, 600-627.	6.6	221
87	Malate transport by the vacuolar AtALMT6 channel in guard cells is subject to multiple regulation. Plant Journal, 2011, 67, 247-257.	5.7	143
88	Common Functions or Only Phylogenetically Related? The Large Family of PLAC8 Motif-Containing/PCR Genes. Molecules and Cells, 2011, 31, 1-8.	2.6	43
89	Safety of food crops on land contaminated with trace elements. Journal of the Science of Food and Agriculture, 2011, 91, 1349-1366.	3.5	54
90	Toward the Storage Metabolome: Profiling the Barley Vacuole Â Â. Plant Physiology, 2011, 157, 1469-1482.	4.8	92

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91	Characterization of a transport activity for long-chain peptides in barley mesophyll vacuoles. Journal of Experimental Botany, 2011, 62, 2403-2410.	4.8	16
92	Expression analysis and functional characterization of the monosaccharide transporters, OsTMTs, involving vacuolar sugar transport in rice (Oryza sativa). New Phytologist, 2010, 186, 657-668.	7.3	69
93	AtALMT12 represents an R-type anion channel required for stomatal movement in Arabidopsis guard cells. Plant Journal, 2010, 63, 1054-1062.	5.7	314
94	Phosphate systemically inhibits development of arbuscular mycorrhiza in Petunia hybrida and represses genes involved in mycorrhizal functioning. Plant Journal, 2010, 64, 1002-1017.	5.7	354
95	Overexpression of AtABCG36 improves drought and salt stress resistance in Arabidopsis. Physiologia Plantarum, 2010, 139, 170-180.	5.2	124
96	PDR-type ABC transporter mediates cellular uptake of the phytohormone abscisic acid. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2355-2360.	7.1	614
97	Orthologs of the Class A4 Heat Shock Transcription Factor HsfA4a Confer Cadmium Tolerance in Wheat and Rice Â. Plant Cell, 2010, 21, 4031-4043.	6.6	240
98	Tonoplast-localized Abc2 Transporter Mediates Phytochelatin Accumulation in Vacuoles and Confers Cadmium Tolerance. Journal of Biological Chemistry, 2010, 285, 40416-40426.	3.4	87
99	Arabidopsis PIS1 encodes the ABCG37 transporter of auxinic compounds including the auxin precursor indole-3-butyric acid. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10749-10753.	7.1	183
100	Arsenic tolerance in Arabidopsis is mediated by two ABCC-type phytochelatin transporters. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21187-21192.	7.1	555
101	Arabidopsis PCR2 Is a Zinc Exporter Involved in Both Zinc Extrusion and Long-Distance Zinc Transport. Plant Cell, 2010, 22, 2237-2252.	6.6	170
102	No Evidence for Cerium Dioxide Nanoparticle Translocation in Maize Plants. Environmental Science & Technology, 2010, 44, 8718-8723.	10.0	246
103	Intra- and extra-cellular excretion of carboxylates. Trends in Plant Science, 2010, 15, 40-47.	8.8	102
104	An ABC Transporter Mutation Alters Root Exudation of Phytochemicals That Provoke an Overhaul of Natural Soil Microbiota Â Â Â. Plant Physiology, 2009, 151, 2006-2017.	4.8	263
105	The Arabidopsis ATP-binding Cassette Protein AtMRP5/AtABCC5 Is a High Affinity Inositol Hexakisphosphate Transporter Involved in Guard Cell Signaling and Phytate Storage. Journal of Biological Chemistry, 2009, 284, 33614-33622.	3.4	177
106	Malate. Jack of all trades or master of a few?. Phytochemistry, 2009, 70, 828-832.	2.9	160
107	In vivo phosphorylation sites of barley tonoplast proteins identified by a phosphoproteomic approach. Proteomics, 2009, 9, 310-321.	2.2	47
108	Quantitative detection of changes in the leafâ€mesophyll tonoplast proteome in dependency of a cadmium exposure of barley (Hordeum vulgare L.) plants. Proteomics, 2009, 9, 2668-2677.	2.2	73

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109	Plasma membrane H⁺â€ATPaseâ€dependent citrate exudation from cluster roots of phosphateâ€deficient white lupin. Plant, Cell and Environment, 2009, 32, 465-475.	5.7	99
110	AtHMA1 contributes to the detoxification of excess Zn(II) in Arabidopsis. Plant Journal, 2009, 58, 737-753.	5.7	167
111	The fou2 mutation in the major vacuolar cation channel TPC1 confers tolerance to inhibitory luminal calcium. Plant Journal, 2009, 58, 715-723.	5.7	115
112	The ABC transporter AtABCB14 is a malate importer and modulates stomatal response to CO2. Nature Cell Biology, 2008, 10, 1217-1223.	10.3	243
113	Flavonoids of white lupin roots participate in phosphorus mobilization from soil. Soil Biology and Biochemistry, 2008, 40, 1971-1974.	8.8	109
114	Spatio-temporal dynamics of bacterial communities associated with two plant species differing in organic acid secretion: A one-year microcosm study on lupin and wheat. Soil Biology and Biochemistry, 2008, 40, 1772-1780.	8.8	54
115	Plant ABC proteins â€“ a unified nomenclature and updated inventory. Trends in Plant Science, 2008, 13, 151-159.	8.8	652
116	Modulation of P-glycoproteins by Auxin Transport Inhibitors Is Mediated by Interaction with Immunophilins. Journal of Biological Chemistry, 2008, 283, 21817-21826.	3.4	162
117	Flavonoids Redirect PIN-mediated Polar Auxin Fluxes during Root Gravitropic Responses. Journal of Biological Chemistry, 2008, 283, 31218-31226.	3.4	187
118	Transport and Sorting of the Solanum tuberosum Sucrose Transporter SUT1 Is Affected by Posttranslational Modification. Plant Cell, 2008, 20, 2497-2513.	6.6	83
119	AtOSA1, a Member of the Abc1-Like Family, as a New Factor in Cadmium and Oxidative Stress Response Â Â. Plant Physiology, 2008, 147, 719-731.	4.8	77
120	The ATP Binding Cassette Transporter AtMRP5 Modulates Anion and Calcium Channel Activities in Arabidopsis Guard Cells. Journal of Biological Chemistry, 2007, 282, 1916-1924.	3.4	117
121	Novel Tonoplast Transporters Identified Using a Proteomic Approach with Vacuoles Isolated from Cauliflower Buds. Plant Physiology, 2007, 145, 216-229.	4.8	78
122	Molecular Identification and Physiological Characterization of a Novel Monosaccharide Transporter from Arabidopsis Involved in Vacuolar Sugar Transport. Plant Cell, 2007, 18, 3476-3490.	6.6	274
123	Interactions among PIN-FORMED and P-Glycoprotein Auxin Transporters in Arabidopsis. Plant Cell, 2007, 19, 131-147.	6.6	387
124	Transporters in fruit vacuoles. Plant Biotechnology, 2007, 24, 127-133.	1.0	114
125	Phosphatidylinositol 4,5â€bisphosphate is important for stomatal opening. Plant Journal, 2007, 52, 803-816.	5.7	90
126	A gain-of-function allele of TPC1 activates oxylipin biogenesis after leaf wounding in Arabidopsis. Plant Journal, 2007, 49, 889-898.	5.7	145

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127	The ABC transporter AtPDR8 is a cadmium extrusion pump conferring heavy metal resistance. Plant Journal, 2007, 50, 207-218.	5.7	593
128	The Arabidopsis vacuolar malate channel is a member of the ALMT family. Plant Journal, 2007, 52, 1169-1180.	5.7	235
129	Vacuolar transporters and their essential role in plant metabolism. Journal of Experimental Botany, 2006, 58, 83-102.	4.8	521
130	The multidrug resistance-associated protein (MRP/ABCC) subfamily of ATP-binding cassette transporters in plants. FEBS Letters, 2006, 580, 1112-1122.	2.8	239
131	Isoflavonoid exudation from white lupin roots is influenced by phosphate supply, root type and clusterâ€root stage. New Phytologist, 2006, 171, 657-668.	7.3	65
132	White lupin has developed a complex strategy to limit microbial degradation of secreted citrate required for phosphate acquisition. Plant, Cell and Environment, 2006, 29, 919-927.	5.7	160
133	AtATM3 Is Involved in Heavy Metal Resistance in Arabidopsis. Plant Physiology, 2006, 140, 922-932.	4.8	270
134	Loss of AtPDR8, a Plasma Membrane ABC Transporter of Arabidopsis thaliana, Causes Hypersensitive Cell Death Upon Pathogen Infection. Plant and Cell Physiology, 2006, 47, 309-318.	3.1	171
135	Identification of a Vacuolar Sucrose Transporter in Barley and Arabidopsis Mesophyll Cells by a Tonoplast Proteomic Approach. Plant Physiology, 2006, 141, 196-207.	4.8	288
136	Cellular efflux of auxin catalyzed by the Arabidopsis MDR/PGP transporter AtPGP1. Plant Journal, 2005, 44, 179-194.	5.7	496
137	Secretion activity of white lupinâ€™s cluster roots influences bacterial abundance, function and community structure. Plant and Soil, 2005, 268, 181-194.	3.7	60
138	Impaired pH Homeostasis in Arabidopsis Lacking the Vacuolar Dicarboxylate Transporter and Analysis of Carboxylic Acid Transport across the Tonoplast. Plant Physiology, 2005, 137, 901-910.	4.8	168
139	Characterization of Vacuolar Transport of the Endogenous Alkaloid Berberine in Coptis japonica. Plant Physiology, 2005, 138, 1939-1946.	4.8	115
140	Possible involvement of plant ABC transporters in cadmium detoxification: a cDNA sub-microarray approach. Environment International, 2005, 31, 263-267.	10.0	89
141	MDR-like ABC transporter AtPGP4 is involved in auxin-mediated lateral root and root hair development. FEBS Letters, 2005, 579, 5399-5406.	2.8	202
142	A Novel Family of Cys-Rich Membrane Proteins Mediates Cadmium Resistance in Arabidopsis. Plant Physiology, 2004, 135, 1027-1039.	4.8	197
143	Hyperaccumulation of Cadmium and Zinc in Thlaspi caerulescens and Arabidopsis halleri at the Leaf Cellular Level. Plant Physiology, 2004, 134, 716-725.	4.8	218
144	ArabidopsisImmunophilin-like TWD1 Functionally Interacts with Vacuolar ABC Transporters. Molecular Biology of the Cell, 2004, 15, 3393-3405.	2.1	99

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145	Disruption ofAtMRP4, a guard cell plasma membrane ABCC-type ABC transporter, leads to deregulation of stomatal opening and increased drought susceptibility. Plant Journal, 2004, 39, 219-236.	5.7	141
146	Crosstalk and differential response to abiotic and biotic stressors reflected at the transcriptional level of effector genes from secondary metabolism. Plant Molecular Biology, 2004, 54, 817-835.	3.9	111
147	Phosphorus deficiency-induced modifications in citrate catabolism and in cytosolic pH as related to citrate exudation in cluster roots of white lupin. Plant and Soil, 2003, 248, 117-127.	3.7	52
148	The plant multidrug resistance ABC transporter AtMRP5 is involved in guard cell hormonal signalling and water use. Plant Journal, 2003, 33, 119-129.	5.7	185
149	Engineering tolerance and accumulation of lead and cadmium in transgenic plants. Nature Biotechnology, 2003, 21, 914-919.	17.5	381
150	The ATP-Binding Cassette Transporters: Structure, Function, and Gene Family Comparison between Rice and Arabidopsis. Plant Physiology, 2003, 131, 1169-1177.	4.8	209
151	Functional Expression of a Bacterial Heavy Metal Transporter in Arabidopsis Enhances Resistance to and Decreases Uptake of Heavy Metals Â. Plant Physiology, 2003, 133, 589-596.	4.8	136
152	The plant homolog to the human sodium/dicarboxylic cotransporter is the vacuolar malate carrier. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11122-11126.	7.1	162
153	Flavone Glucoside Uptake into Barley Mesophyll and Arabidopsis Cell Culture Vacuoles. Energization Occurs by H+-Antiport and ATP-Binding Cassette-Type Mechanisms. Plant Physiology, 2002, 128, 726-733.	4.8	122
154	The ATP-binding cassette (ABC) transporter Bpt1p mediates vacuolar sequestration of glutathione conjugates in yeast. FEBS Letters, 2002, 520, 63-67.	2.8	78
155	Cluster roots â€“ an underground adaptation for survival in extreme environments. Trends in Plant Science, 2002, 7, 162-167.	8.8	352
156	Family business: the multidrug-resistance related protein (MRP) ABC transporter genes in Arabidopsis thaliana. Planta, 2002, 216, 107-119.	3.2	76
157	Multifunctionality of plant ABC transporters â€“ more than just detoxifiers. Planta, 2002, 214, 345-355.	3.2	394
158	Knock-out of Arabidopsis metal transporter gene IRT1 results in iron deficiency accompanied by cell differentiation defects. Plant Molecular Biology, 2002, 50, 587-597.	3.9	229
159	Expression and distribution of a vacuolar aquaporin in young and mature leaf tissues of Brassica napus in relation to water fluxes. Planta, 2001, 212, 270-278.	3.2	52
160	Metabolic changes associated with cluster root development in white lupin (Lupinus albus L.): relationship between organic acid excretion, sucrose metabolism and energy status. Planta, 2001, 213, 534-542.	3.2	103
161	A membrane-potential dependent ABC-like transporter mediates the vacuolar uptake of rye flavone glucuronides: regulation of glucuronide uptake by glutathione and its conjugates. Plant Journal, 2000, 21, 289-304.	5.7	89
162	Phosphate uptake across the tonoplast of intact vacuoles isolated from suspension-cultured cells of Catharanthus roseus (L.) G. Don. Planta, 2000, 211, 390-395.	3.2	35

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163	Transport Processes of Solutes across the Vacuolar Membrane of Higher Plants. Plant and Cell Physiology, 2000, 41, 1175-1186.	3.1	183
164	Lipid Phosphorylation in Chloroplast Envelopes. Journal of Biological Chemistry, 2000, 275, 19475-19481.	3.4	26
165	The ACA4 Gene of Arabidopsis Encodes a Vacuolar Membrane Calcium Pump That Improves Salt Tolerance in Yeast. Plant Physiology, 2000, 124, 1814-1827.	4.8	194
166	Physiological Aspects of Cluster Root Function and Development in Phosphorus-deficient White Lupin (Lupinus albus L.). Annals of Botany, 2000, 85, 909-919.	2.9	304
167	Physiological adaptations to phosphorus deficiency during proteoid root development in white lupin. Planta, 1999, 208, 373-382.	3.2	402
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