

Nobukazu Shitan

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,764
citations

218677

26
h-index

182427

51
g-index

60
all docs

60
docs citations

60
times ranked

2808
citing authors

#	ARTICLE	IF	CITATIONS
1	Involvement of CjMDR1, a plant multidrug-resistance-type ATP-binding cassette protein, in alkaloid transport in <i>Coptis japonica</i> . Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 751-756.	7.1	256
2	Vacuolar transport of nicotine is mediated by a multidrug and toxic compound extrusion (MATE) transporter in <i>Nicotiana tabacum</i> . Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2447-2452.	7.1	255
3	Multidrug and Toxic Compound Extrusion-Type Transporters Implicated in Vacuolar Sequestration of Nicotine in Tobacco Roots. Plant Physiology, 2009, 149, 708-718.	4.8	184
4	Involvement of a Soybean ATP-Binding Cassette-Type Transporter in the Secretion of Genistein, a Signal Flavonoid in Legume-Rhizobium Symbiosis. Plant Physiology, 2007, 144, 2000-2008.	4.8	164
5	Secondary metabolites in plants: transport and self-tolerance mechanisms. Bioscience, Biotechnology and Biochemistry, 2016, 80, 1283-1293.	1.3	153
6	Molecular Cloning and Characterization of Coclaurine N-Methyltransferase from Cultured Cells of <i>Coptis japonica</i> . Journal of Biological Chemistry, 2002, 277, 830-835.	3.4	146
7	The multidrug and toxic compound extrusion (MATE) family in plants. Plant Biotechnology, 2014, 31, 417-430.	1.0	134
8	Arabidopsis ABCB21 is a Facultative Auxin Importer/Exporter Regulated by Cytoplasmic Auxin Concentration. Plant and Cell Physiology, 2012, 53, 2090-2100.	3.1	132
9	Secondary transport as an efficient membrane transport mechanism for plant secondary metabolites. Phytochemistry Reviews, 2008, 7, 513-524.	6.5	121
10	Characterization of Vacuolar Transport of the Endogenous Alkaloid Berberine in <i>Coptis japonica</i> . Plant Physiology, 2005, 138, 1939-1946.	4.8	115
11	RCN1/OsABCG5, an ATP-binding cassette (ABC) transporter, is required for hypodermal suberization of roots in rice (<i>Oryza sativa</i>). Plant Journal, 2014, 80, 40-51.	5.7	94
12	Genome-wide analysis of ATP-binding cassette (ABC) proteins in a model legume plant, <i>Lotus japonicus</i> : comparison with Arabidopsis ABC protein family. DNA Research, 2006, 13, 205-228.	3.4	71
13	Characterization of <i>Coptis japonica</i> CjABCB2, an ATP-binding cassette protein involved in alkaloid transport. Phytochemistry, 2013, 91, 109-116.	2.9	71
14	Proton-Dependent Coniferin Transport, a Common Major Transport Event in Differentiating Xylem Tissue of Woody Plants. Plant Physiology, 2013, 162, 918-926.	4.8	66
15	Characterization of berberine transport into <i>Coptis japonica</i> cells and the involvement of ABC protein. Journal of Experimental Botany, 2002, 53, 1879-1886.	4.8	65
16	Involvement of the Leaf-Specific Multidrug and Toxic Compound Extrusion (MATE) Transporter Nt-JAT2 in Vacuolar Sequestration of Nicotine in <i>Nicotiana tabacum</i> . PLoS ONE, 2014, 9, e108789.	2.5	59
17	Chapter 6 Cell and Molecular Biology of ATP-binding Cassette Proteins in Plants. International Review of Cell and Molecular Biology, 2009, 276, 263-299.	3.2	56
18	Signaling from soybean roots to <i>Rhizobium</i> . Plant Signaling and Behavior, 2008, 3, 38-40.	2.4	46

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19	New Insights into the Transport Mechanisms in Plant Vacuoles. <i>International Review of Cell and Molecular Biology</i> , 2013, 305, 383-433.	3.2	45
20	A novel <i>Coptis japonica</i> multidrug-resistant protein preferentially expressed in the alkaloid-accumulating rhizome I. <i>Journal of Experimental Botany</i> , 2001, 52, 877-879.	4.8	41
21	Human MDR1 and MRP1 Recognize Berberine as Their Transport Substrate. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 242-245.	1.3	41
22	Heterologous Expression of a Mammalian ABC Transporter in Plant and its Application to Phytoremediation. <i>Plant Molecular Biology</i> , 2006, 61, 491-503.	3.9	37
23	Tobacco NUP1 transports both tobacco alkaloids and vitamin B6. <i>Phytochemistry</i> , 2015, 113, 33-40.	2.9	34
24	Metabolic engineering for the production of prenylated polyphenols in transgenic legume plants using bacterial and plant prenyltransferases. <i>Metabolic Engineering</i> , 2011, 13, 629-637.	7.0	33
25	Oxalate Efflux Transporter from the Brown Rot Fungus <i>Fomitopsis palustris</i> . <i>Applied and Environmental Microbiology</i> , 2010, 76, 7683-7690.	3.1	32
26	Alkaloid transporters in plants. <i>Plant Biotechnology</i> , 2014, 31, 453-463.	1.0	30
27	Dynamism of vacuoles toward survival strategy in plants. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183127.	2.6	30
28	Translocation and accumulation of nicotine via distinct spatio-temporal regulation of nicotine transporters in <i>Nicotiana tabacum</i> . <i>Plant Signaling and Behavior</i> , 2015, 10, e1035852.	2.4	24
29	Identification of a nicotine transporter in leaf vacuoles of <i>Nicotiana tabacum</i> . <i>Plant Signaling and Behavior</i> , 2009, 4, 530-532.	2.4	23
30	Improvement of Benzylisoquinoline Alkaloid Productivity by Overexpression of 3- ² -Hydroxy-N-methylcoclaurine 4-O-Methyltransferase in Transgenic <i>Coptis japonica</i> Plants. <i>Biological and Pharmaceutical Bulletin</i> , 2012, 35, 650-659.	1.4	20
31	Genome-wide identification of AP2/ERF transcription factor-encoding genes in California poppy (<i>Eschscholzia californica</i>) and their expression profiles in response to methyl jasmonate. <i>Scientific Reports</i> , 2020, 10, 18066.	3.3	18
32	The <i>Crotalaria juncea</i> metal transporter CjNRAMP1 has a high Fe uptake activity, even in an environment with high Cd contamination. <i>International Journal of Phytoremediation</i> , 2018, 20, 1427-1437.	3.1	17
33	Bowman's Birk Proteinase Inhibitor Confers Heavy Metal and Multiple Drug Tolerance in Yeast. <i>Plant and Cell Physiology</i> , 2007, 48, 193-197.	3.1	16
34	Genome-Wide Profiling of WRKY Genes Involved in Benzylisoquinoline Alkaloid Biosynthesis in California Poppy (<i>Eschscholzia californica</i>). <i>Frontiers in Plant Science</i> , 2021, 12, 699326.	3.6	15
35	Application of Vanadate-Induced Nucleotide Trapping to Plant Cells for Detection of ABC Proteins. <i>Plant and Cell Physiology</i> , 2003, 44, 198-200.	3.1	13
36	Comparative analysis using the draft genome sequence of California poppy (<i>Eschscholzia californica</i>) for exploring the candidate genes involved in benzylisoquinoline alkaloid biosynthesis. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 851-859.	1.3	10

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37	Transport engineering for improving the production and secretion of valuable alkaloids in <i>Escherichia coli</i> . <i>Metabolic Engineering Communications</i> , 2021, 13, e00184.	3.6	10
38	Galactinol Synthase Gene of <i>Coptis japonica</i> Is Involved in Berberine Tolerance. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 398-405.	1.3	9
39	Functional Analysis of Jasmonic Acid-Responsive Secondary Metabolite Transporters. <i>Methods in Molecular Biology</i> , 2013, 1011, 241-250.	0.9	9
40	Establishment of Rhizobium-mediated transformation of <i>Coptis japonica</i> and molecular analyses of transgenic plants. <i>Plant Biotechnology</i> , 2005, 22, 113-118.	1.0	9
41	Establishment of a co-culture system using <i>Escherichia coli</i> and <i>Pichia pastoris</i> (<i>Komagataella phaffii</i>) for valuable alkaloid production. <i>Microbial Cell Factories</i> , 2021, 20, 200.	4.0	9
42	Starvation-induced autophagy via calcium-dependent TFEB dephosphorylation is suppressed by Shigyakusan. <i>PLoS ONE</i> , 2020, 15, e0230156.	2.5	8
43	Transcriptome analysis of <i>Petunia axillaris</i> flowers reveals genes involved in morphological differentiation and metabolite transport. <i>PLoS ONE</i> , 2018, 13, e0198936.	2.5	7
44	Uptake of adenine by purine permeases of <i>Coffea canephora</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2019, 83, 1300-1305.	1.3	7
45	Molecular Characterization of LjABCG1, an ATP-Binding Cassette Protein in <i>Lotus japonicus</i> . <i>PLoS ONE</i> , 2015, 10, e0139127.	2.5	7
46	Structure of constituents isolated from the bark of <i>Cassipourea malosana</i> and their cytotoxicity against a human ovarian cell line. <i>Journal of Natural Medicines</i> , 2019, 73, 289-296.	2.3	6
47	Two B-type ATP-binding cassette (ABC) transporters localize to the plasma membrane in <i>Thalictrum minus</i> . <i>Plant Biotechnology</i> , 2015, 32, 243-247.	1.0	5
48	Metabolic engineering of flavonoids with prenyltransferase and chalcone isomerase genes in tomato fruits. <i>Plant Biotechnology</i> , 2014, 31, 567-571.	1.0	2
49	Enhancing effect of <i>Panax ginseng</i> on Zip4-mediated zinc influx into the cytosol. <i>Journal of Ginseng Research</i> , 2022, 46, 248-254.	5.7	2
50	Unusual expression of an <i>Arabidopsis</i> ATP-binding cassette transporter ABCC11. <i>Plant Biotechnology</i> , 2009, 26, 261-265.	1.0	2
51	Involvement of FpTRP26, a thioredoxin-related protein, in oxalic acid-resistance of the brown-rot fungus <i>Fomitopsis palustris</i> . <i>FEBS Letters</i> , 2007, 581, 1788-1792.	2.8	1
52	A Tolerance Gene for Prenylated Flavonoid Encodes a 26S Proteasome Regulatory Subunit in <i>Sophora flavescens</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 982-984.	1.3	1
53	Transport engineering using tobacco transporter NtJAT1 enhances alkaloid production in <i>Escherichia coli</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2022, , .	1.3	1
54	Title is missing!. <i>Kagaku To Seibutsu</i> , 2013, 51, 445-447.	0.0	0

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55	Title is missing!. , 2020, 15, e0230156.		0
56	Title is missing!. , 2020, 15, e0230156.		0
57	Title is missing!.. , 2020, 15, e0230156.		0
58	Title is missing!.. , 2020, 15, e0230156.		0