

Doris Rentsch

List of Publications by Year in descending order

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70
papers

7,146
citations

76196

40
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88477

70
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all docs

70
docs citations

70
times ranked

6983
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified nomenclature of NITRATE TRANSPORTER 1/PEPTIDE TRANSPORTER family members in plants. Trends in Plant Science, 2014, 19, 5-9.	4.3	581
2	Arsenic tolerance in <i>Arabidopsis</i> 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.	3.3	555
3	Transporters for uptake and allocation of organic nitrogen compounds in plants. FEBS Letters, 2007, 581, 2281-2289.	1.3	323
4	NTR1 encodes a high affinity oligopeptide transporter in <i>Arabidopsis</i> . FEBS Letters, 1995, 370, 264-268.	1.3	308
5	Nonredundant Regulation of Rice Arbuscular Mycorrhizal Symbiosis by Two Members of the PHOSPHATE TRANSPORTER1 Gene Family. Plant Cell, 2012, 24, 4236-4251.	3.1	306
6	Plants can use protein as a nitrogen source without assistance from other organisms. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4524-4529.	3.3	296
7	Proline metabolism and transport in plant development. Amino Acids, 2010, 39, 949-962.	1.2	290
8	Uptake and Partitioning of Amino Acids and Peptides. Molecular Plant, 2010, 3, 997-1011.	3.9	246
9	LeProT1, a Transporter for Proline, Glycine Betaine, and γ -Amino Butyric Acid in Tomato Pollen. Plant Cell, 1999, 11, 377-391.	3.1	245
10	Conservation of amino acid transporters in fungi, plants and animals. Trends in Biochemical Sciences, 2002, 27, 139-147.	3.7	210
11	Low and high affinity amino acid H ⁺ cotransporters for cellular import of neutral and charged amino acids. Plant Journal, 2002, 29, 717-731.	2.8	192
12	A New Family of High-Affinity Transporters for Adenine, Cytosine, and Purine Derivatives in <i>Arabidopsis</i> . Plant Cell, 2000, 12, 291-300.	3.1	190
13	AtPTR1 and AtPTR5 Transport Dipeptides in <i>Planta</i> . Plant Physiology, 2008, 148, 856-869.	2.3	175
14	Developmental control of H ⁺ /amino acid permease gene expression during seed development of <i>Arabidopsis</i> . Plant Journal, 1998, 14, 535-544.	2.8	163
15	Hypersensitivity of an <i>Arabidopsis</i> Sugar Signaling Mutant toward Exogenous Proline Application. Plant Physiology, 2000, 123, 779-789.	2.3	162
16	High Affinity Amino Acid Transporters Specifically Expressed in Xylem Parenchyma and Developing Seeds of <i>Arabidopsis</i> . Journal of Biological Chemistry, 2002, 277, 45338-45346.	1.6	162
17	The AtProT Family. Compatible Solute Transporters with Similar Substrate Specificity But Differential Expression Patterns. Plant Physiology, 2005, 137, 117-126.	2.3	161
18	Turning the Table: Plants Consume Microbes as a Source of Nutrients. PLoS ONE, 2010, 5, e11915.	1.1	136

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19	Altered expression of the <i>OsPTR9</i> homologue affects nitrogen utilization efficiency, growth and grain yield in rice. <i>Plant Biotechnology Journal</i> , 2013, 11, 446-458.	4.1	131
20	AtGAT1, a High Affinity Transporter for $\hat{1}^3$ -Aminobutyric Acid in <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 7197-7204.	1.6	115
21	Cloning of an <i>Arabidopsis</i> histidine transporting protein related to nitrate and peptide transporters. <i>FEBS Letters</i> , 1994, 347, 185-189.	1.3	111
22	Identification and characterization of GABA, proline and quaternary ammonium compound transporters from <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 1999, 450, 280-284.	1.3	104
23	In planta function of compatible solute transporters of the AtProT family. <i>Journal of Experimental Botany</i> , 2011, 62, 787-796.	2.4	100
24	AtPTR1, a plasma membrane peptide transporter expressed during seed germination and in vascular tissue of <i>Arabidopsis</i> . <i>Plant Journal</i> , 2004, 40, 488-499.	2.8	96
25	A Novel Family of Transporters Mediating the Transport of Glutathione Derivatives in Plants. <i>Plant Physiology</i> , 2004, 134, 482-491.	2.3	96
26	Amino Acid Export in Developing <i>Arabidopsis</i> Seeds Depends on Umami Transporters. <i>Current Biology</i> , 2015, 25, 3126-3131.	1.8	90
27	An Arginine Deprivation Response Pathway Is Induced in <i>Leishmania</i> during Macrophage Invasion. <i>PLoS Pathogens</i> , 2016, 12, e1005494.	2.1	86
28	A novel high affinity arginine transporter from the human parasitic protozoan <i>Leishmania donovani</i> . <i>Molecular Microbiology</i> , 2006, 60, 30-38.	1.2	79
29	Citrate transport into barley mesophyll vacuoles ? comparison with malate-uptake activity. <i>Planta</i> , 1991, 184, 532-7.	1.6	75
30	PLANT BIOLOGY:Enhanced: Taking Transgenic Plants with a Pinch of Salt. <i>Science</i> , 1999, 285, 1222-1223.	6.0	74
31	Catabolism of chlorophyll in vivo: significance of polar chlorophyll catabolites in a non-yellowing senescence mutant of <i>Festuca pratensis</i> Huds.. <i>New Phytologist</i> , 1989, 111, 3-8.	3.5	72
32	A Critical Role of AMT2;1 in Root-To-Shoot Translocation of Ammonium in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2017, 10, 1449-1460.	3.9	66
33	Hypersensitivity of an <i>Arabidopsis</i> Sugar Signaling Mutant toward Exogenous Proline Application. <i>Plant Physiology</i> , 2000, 122, 357-368.	2.3	65
34	Salt Stress-Induced Proline Transporters and Salt Stress-Repressed Broad Specificity Amino Acid Permeases Identified by Suppression of a Yeast Amino Acid Permease-Targeting Mutant. <i>Plant Cell</i> , 1996, 8, 1437.	3.1	64
35	Arginine Homeostasis and Transport in the Human Pathogen <i>Leishmania donovani</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 19800-19807.	1.6	61
36	Traffic Routes and Signals for the Tonoplast. <i>Traffic</i> , 2013, 14, 622-628.	1.3	58

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37	Peptide and Amino Acid Transporters Are Differentially Regulated during Seed Development and Germination in Faba Bean. <i>Plant Physiology</i> , 2003, 132, 1950-1960.	2.3	57
38	Phytol and the Breakdown of Chlorophyll in Senescent Leaves. <i>Journal of Plant Physiology</i> , 1989, 135, 428-432.	1.6	55
39	Nitrogen affects cluster root formation and expression of putative peptide transporters. <i>Journal of Experimental Botany</i> , 2009, 60, 2665-2676.	2.4	55
40	Determinants for <i>Arabidopsis</i> Peptide Transporter Targeting to the Tonoplast or Plasma Membrane. <i>Traffic</i> , 2012, 13, 1090-1105.	1.3	48
41	AtPTR4 and AtPTR6 are differentially expressed, tonoplast-localized members of the peptide transporter/nitrate transporter 1 (PTR/NRT1) family. <i>Planta</i> , 2012, 235, 311-323.	1.6	44
42	A versatile proline/alanine transporter in the unicellular pathogen <i>Leishmania donovani</i> regulates amino acid homeostasis and osmotic stress responses. <i>Biochemical Journal</i> , 2013, 449, 555-566.	1.7	42
43	Rhesus factors and ammonium: a function in efflux?. <i>Genome Biology</i> , 2001, 2, reviews1010.1.	13.9	40
44	Characterization and expression of French bean amino acid transporter PvAAP1. <i>Plant Science</i> , 2008, 174, 348-356.	1.7	39
45	<i>Arabidopsis</i> and <i>Lobelia anceps</i> access small peptides as a nitrogen source for growth. <i>Functional Plant Biology</i> , 2011, 38, 788.	1.1	39
46	Isolation and functional characterization of a high affinity urea transporter from roots of <i>Zea mays</i> . <i>BMC Plant Biology</i> , 2014, 14, 222.	1.6	39
47	Functional Properties of the <i>Arabidopsis</i> Peptide Transporters AtPTR1 and AtPTR5*. <i>Journal of Biological Chemistry</i> , 2010, 285, 39710-39717.	1.6	37
48	Functional reconstitution of the malate carrier of barley mesophyll vacuoles in liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991, 1062, 271-278.	1.4	36
49	Lysine transporters in human trypanosomatid pathogens. <i>Amino Acids</i> , 2012, 42, 347-360.	1.2	34
50	The transporter GAT1 plays an important role in GABA-mediated carbon-nitrogen interactions in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 785.	1.7	30
51	Effects of externally supplied protein on root morphology and biomass allocation in <i>Arabidopsis</i> . <i>Scientific Reports</i> , 2014, 4, 5055.	1.6	29
52	Transport of Arginine and Aspartic Acid into Isolated Barley Mesophyll Vacuoles. <i>Plant Physiology</i> , 1991, 97, 644-650.	2.3	26
53	Comparative genomics and functional analysis of the NiaP family uncover nicotinate transporters from bacteria, plants, and mammals. <i>Functional and Integrative Genomics</i> , 2012, 12, 25-34.	1.4	25
54	Arginine and Lysine Transporters Are Essential for <i>Trypanosoma brucei</i> . <i>PLoS ONE</i> , 2017, 12, e0168775.	1.1	24

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55	Detoxification of succinate semialdehyde in <i>Arabidopsis</i> glyoxylate reductase and NAD kinase mutants subjected to submergence stress. <i>Botany</i> , 2012, 90, 51-61.	0.5	23
56	Characterization of a transport activity for long-chain peptides in barley mesophyll vacuoles. <i>Journal of Experimental Botany</i> , 2011, 62, 2403-2410.	2.4	16
57	<i>Trypanosoma brucei</i> eflornithine transporter AAT6 is a low-affinity low-selective transporter for neutral amino acids. <i>Biochemical Journal</i> , 2014, 463, 9-18.	1.7	16
58	Transporters of <i>Trypanosoma brucei</i> phylogeny, physiology, pharmacology. <i>FEBS Journal</i> , 2018, 285, 1012-1023.	2.2	16
59	Organic nitrogen. <i>New Phytologist</i> , 2014, 203, 29-31.	3.5	15
60	Multi-gene metabolic engineering of tomato plants results in increased fruit yield up to 23%. <i>Scientific Reports</i> , 2020, 10, 17219.	1.6	15
61	LeProT1, a Transporter for Proline, Glycine Betaine, and g-Amino Butyric Acid in Tomato Pollen. <i>Plant Cell</i> , 1999, 11, 377.	3.1	14
62	Soybean Yellow Stripe-like 7 is a symbiosome membrane peptide transporter important for nitrogen fixation. <i>Plant Physiology</i> , 2021, 186, 581-598.	2.3	14
63	Characterization of choline uptake in <i>Trypanosoma brucei</i> procyclic and bloodstream forms. <i>Molecular and Biochemical Parasitology</i> , 2013, 190, 16-22.	0.5	13
64	The Tonoplast-associated Citrate Binding Protein (CBP) of <i>Hevea brasiliensis</i> . <i>Journal of Biological Chemistry</i> , 1995, 270, 30525-30531.	1.6	12
65	Ornithine uptake and the modulation of drug sensitivity in <i>Trypanosoma brucei</i> . <i>FASEB Journal</i> , 2017, 31, 4649-4660.	0.2	12
66	Wheat amino acid transporters highly expressed in grain cells regulate amino acid accumulation in grain. <i>PLoS ONE</i> , 2021, 16, e0246763.	1.1	11
67	Size does matter: 18 amino acids at the N-terminal tip of an amino acid transporter in <i>Leishmania</i> determine substrate specificity. <i>Scientific Reports</i> , 2015, 5, 16289.	1.6	8
68	Organic Carbon and Nitrogen Transporters. <i>Plant Cell Monographs</i> , 2011, , 331-352.	0.4	8
69	Nutrient availability regulates proline/alanine transporters in <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2021, 296, 100566.	1.6	7
70	Identification and characterization of the three members of the CLC family of anion transport proteins in <i>Trypanosoma brucei</i> . <i>PLoS ONE</i> , 2017, 12, e0188219.	1.1	3