

Binghua Wu

List of Publications by Year in descending order

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36
papers

1,442
citations

516710

16
h-index

377865

34
g-index

37
all docs

37
docs citations

37
times ranked

1875
citing authors

#	ARTICLE	IF	CITATIONS
1	Point mutations in the aromatic/arginine region in aquaporin 1 allow passage of urea, glycerol, ammonia, and protons. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 269-274.	7.1	300
2	Homo- and Hetero-oligomerization of Ammonium Transporter-1 NH ₄ ⁺ Uniporters. Journal of Biological Chemistry, 2003, 278, 45603-45610.	3.4	153
3	Structural determinants of the hydrogen peroxide permeability of aquaporins. FEBS Journal, 2014, 281, 647-656.	4.7	151
4	Concerted action of two cation filters in the aquaporin water channel. EMBO Journal, 2009, 28, 2188-2194.	7.8	84
5	Ammonia permeability of the aquaglyceroporins from Plasmodium falciparum, Toxoplasma gondii and Trypanosoma brucei. Molecular Microbiology, 2006, 61, 1598-1608.	2.5	80
6	Phosphorylation of WHIRLY1 by CIPK14 Shifts Its Localization and Dual Functions in Arabidopsis. Molecular Plant, 2017, 10, 749-763.	8.3	76
7	Identity of a Plasmodium lactate/H ⁺ symporter structurally unrelated to human transporters. Nature Communications, 2015, 6, 6284.	12.8	62
8	Enhancement of Proton Conductance by Mutations of the Selectivity Filter of Aquaporin-1. Journal of Molecular Biology, 2011, 407, 607-620.	4.2	61
9	Microwave-Assisted Ring Opening of Epoxides: A General Route to the Synthesis of 1-Aminopropan-2-ols with Anti Malaria Parasite Activities. Journal of Medicinal Chemistry, 2007, 50, 4243-4249.	6.4	57
10	Novel Channel Enzyme Fusion Proteins Confer Arsenate Resistance. Journal of Biological Chemistry, 2010, 285, 40081-40087.	3.4	45
11	Requirement for asparagine in the aquaporin NPA sequence signature motifs for cation exclusion. FEBS Journal, 2011, 278, 740-748.	4.7	45
12	Parasite aquaporins: Current developments in drug facilitation and resistance. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 1566-1573.	2.4	36
13	Aquaporins with anion/monocarboxylate permeability: mechanisms, relevance for pathogen-host interactions. Frontiers in Pharmacology, 2014, 5, 199.	3.5	33
14	Dual-Localized WHIRLY1 Affects Salicylic Acid Biosynthesis via Coordination of ISOCHORISMATE SYNTHASE1, PHENYLALANINE AMMONIA LYASE1, and S-ADENOSYL-L-METHIONINE-DEPENDENT METHYLTRANSFERASE1. Plant Physiology, 2020, 184, 1884-1899.	4.8	24
15	Fluorescent In Situ Folding Control for Rapid Optimization of Cell-Free Membrane Protein Synthesis. PLoS ONE, 2012, 7, e42186.	2.5	21
16	Early transcriptional response of terpenoid metabolism to Colletotrichum gloeosporioides in a resistant wild strawberry Fragaria nilgerrensis. Phytochemistry, 2021, 181, 112590.	2.9	20
17	Cloning and Functional Assessments of Floral-Expressed SWEET Transporter Genes from Jasminum sambac. International Journal of Molecular Sciences, 2019, 20, 4001.	4.1	18
18	In Vitro Analysis and Modification of Aquaporin Pore Selectivity. Handbook of Experimental Pharmacology, 2009, , 77-92.	1.8	17

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19	Structure of Pigment Metabolic Pathways and Their Contributions to White Tepal Color Formation of Chinese Narcissus tazetta var. chinensis cv Jinzhanyintai. International Journal of Molecular Sciences, 2017, 18, 1923.	4.1	17
20	A yeast-based phenotypic screen for aquaporin inhibitors. Pflugers Archiv European Journal of Physiology, 2008, 456, 717-720.	2.8	16
21	Expression Pattern of FT/TFL1 and miR156-Targeted SPL Genes Associated with Developmental Stages in Dendrobium catenatum. International Journal of Molecular Sciences, 2019, 20, 2725.	4.1	16
22	MORF9 Functions in Plastid RNA Editing with Tissue Specificity. International Journal of Molecular Sciences, 2019, 20, 4635.	4.1	15
23	Sugar and Hormone Dynamics and the Expression Profiles of SUT/SUC and SWEET Sugar Transporters during Flower Development in Petunia axillaris. Plants, 2020, 9, 1770.	3.5	14
24	Role of gibberellin and its three GID1 receptors in Jasminum sambac stem elongation and flowering. Planta, 2022, 255, 17.	3.2	13
25	The arginine-facing amino acid residue of the rat aquaporin 1 constriction determines solute selectivity according to its size and lipophilicity. Molecular Membrane Biology, 2014, 31, 228-238.	2.0	10
26	Characterization of JsWOX1 and JsWOX4 during Callus and Root Induction in the Shrub Species Jasminum sambac. Plants, 2019, 8, 79.	3.5	10
27	Protoplast Isolation, Fusion, Culture and Transformation in the Woody Plant Jasminum spp.. Agriculture (Switzerland), 2021, 11, 699.	3.1	10
28	Limited genetic diversity of the Plasmodium falciparum aquaglyceroporin gene. Molecular and Biochemical Parasitology, 2007, 156, 255-257.	1.1	9
29	Patterns of Expansion and Expression Divergence of the Polygalacturonase Gene Family in Brassica oleracea. International Journal of Molecular Sciences, 2020, 21, 5706.	4.1	8
30	Characterization of Two BAHD Acetyltransferases Highly Expressed in the Flowers of Jasminum sambac (L.) Aiton. Plants, 2022, 11, 13.	3.5	7
31	Genome-Wide Identification and Characterization of UTR-Introns of Citrus sinensis. International Journal of Molecular Sciences, 2020, 21, 3088.	4.1	5
32	Specific aquaporins increase the ammonia tolerance of a Saccharomyces cerevisiae mep1-3fps1 deletion strain. Molecular Membrane Biology, 2013, 30, 43-51.	2.0	4
33	Genome-Wide Identification and Expression Analysis of Chitinase-like Genes in Petunia axillaris. Plants, 2022, 11, 1269.	3.5	3
34	Functional and evolutionary implications of natural channel-enzyme fusion proteins. Biomolecular Concepts, 2011, 2, 439-444.	2.2	2
35	A fluorescent screening method for optimization of conotoxin expression in Pichia pastoris. Biotechnology and Applied Biochemistry, 2021, , .	3.1	0
36	Mutational analysis of the "NPA motifs" in the Burkholderia aquaglyceroporin. , 0, 2007, .		0