

Ali Ferjani

List of Publications by Year in descending order

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46
papers

2,471
citations

279798

23
h-index

243625

44
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47
all docs

47
docs citations

47
times ranked

2780
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic variation in ZmVPP1 contributes to drought tolerance in maize seedlings. <i>Nature Genetics</i> , 2016, 48, 1233-1241.	21.4	438
2	Coordination of cell proliferation and cell expansion in the control of leaf size in <i>Arabidopsis thaliana</i> . <i>Journal of Plant Research</i> , 2006, 119, 37-42.	2.4	229
3	Analysis of Leaf Development in <i>fugu</i> Mutants of <i>Arabidopsis</i> Reveals Three Compensation Modes That Modulate Cell Expansion in Determinate Organs. <i>Plant Physiology</i> , 2007, 144, 988-999.	4.8	204
4	Keep an Eye on PPI: The Vacuolar-Type H ⁺ -Pyrophosphatase Regulates Postgerminative Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 2895-2908.	6.6	178
5	iTRAQ Analysis Reveals Mechanisms of Growth Defects Due to Excess Zinc in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2011, 155, 1893-1907.	4.8	167
6	The SphS-SphR Two Component System Is the Exclusive Sensor for the Induction of Gene Expression in Response to Phosphate Limitation in <i>Synechocystis</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 13234-13240.	3.4	159
7	Large-scale histological analysis of leaf mutants using two simple leaf observation methods: identification of novel genetic pathways governing the size and shape of leaves. <i>Plant Journal</i> , 2006, 48, 638-644.	5.7	128
8	Glucosylglycerol, a Compatible Solute, Sustains Cell Division under Salt Stress. <i>Plant Physiology</i> , 2003, 131, 1628-1637.	4.8	103
9	Pyrophosphate inhibits gluconeogenesis by restricting UDP-glucose formation in vivo. <i>Scientific Reports</i> , 2018, 8, 14696.	3.3	46
10	Turnover of the aggregates and cross-linked products of the D1 protein generated by acceptor-side photoinhibition of photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1999, 1413, 147-158.	1.0	45
11	Vacuolar H ⁺ -Pyrophosphatase and Cytosolic Soluble Pyrophosphatases Cooperatively Regulate Pyrophosphate Levels in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2018, 30, 1040-1061.	6.6	44
12	Identification of Zinc-Responsive Proteins in the Roots of <i>Arabidopsis thaliana</i> Using a Highly Improved Method of Two-Dimensional Electrophoresis. <i>Plant and Cell Physiology</i> , 2009, 50, 2234-2239.	3.1	43
13	What is quantitative plant biology?. <i>Quantitative Plant Biology</i> , 2021, 2, .	2.0	43
14	Suppressor Screen and Phenotype Analyses Revealed an Emerging Role of the Monofunctional Peroxisomal Enoyl-CoA Hydratase 2 in Compensated Cell Enlargement. <i>Frontiers in Plant Science</i> , 2016, 7, 132.	3.6	41
15	Compensated Cell Enlargement in <i>fugu5</i> is Specifically Triggered by Lowered Sucrose Production from Seed Storage Lipids. <i>Plant and Cell Physiology</i> , 2017, 58, 668-678.	3.1	39
16	The ATM-Dependent DNA Damage Response Acts as an Upstream Trigger for Compensation in the <i>fas1</i> Mutation during <i>Arabidopsis</i> Leaf Development. <i>Plant Physiology</i> , 2013, 162, 831-841.	4.8	38
17	Contribution of PPI-Hydrolyzing Function of Vacuolar H ⁺ -Pyrophosphatase in Vegetative Growth of <i>Arabidopsis</i> : Evidenced by Expression of Uncoupling Mutated Enzymes. <i>Frontiers in Plant Science</i> , 2016, 7, 415.	3.6	38
18	High PPI activity is beneficial under high salt loads, but detrimental without salinity. <i>New Phytologist</i> , 2018, 219, 1421-1432.	7.3	37

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19	The Conflict Between Cell Proliferation and Expansion Primarily Affects Stem Organogenesis in Arabidopsis. <i>Plant and Cell Physiology</i> , 2014, 55, 1994-2007.	3.1	31
20	Enhanced Cell Expansion in a KRP2 Overexpressor is Mediated by Increased V-ATPase Activity. <i>Plant and Cell Physiology</i> , 2013, 54, 1989-1998.	3.1	30
21	An auxin signaling network translates low-sugar-state input into compensated cell enlargement in the <i>fugu5</i> cotyledon. <i>PLoS Genetics</i> , 2021, 17, e1009674.	3.5	29
22	Lack of H ⁺ -pyrophosphatase Prompts Developmental Damage in Arabidopsis Leaves on Ammonia-Free Culture Medium. <i>Frontiers in Plant Science</i> , 2016, 7, 819.	3.6	28
23	Regulation of pyrophosphate levels by H ⁺ -PPase is central for proper resumption of early plant development. <i>Plant Signaling and Behavior</i> , 2012, 7, 38-42.	2.4	26
24	Peptide Separation Methodologies for In-Depth Proteomics in Arabidopsis. <i>Plant and Cell Physiology</i> , 2013, 54, 808-815.	3.1	26
25	Regulation of PPI Levels Through the Vacuolar Membrane H ⁺ -Pyrophosphatase. <i>Progress in Botany Fortschritte Der Botanik</i> , 2014, , 145-165.	0.3	25
26	Control of Leaf Morphogenesis by Long- and Short-Distance Signaling: Differentiation of Leaves Into Sun or Shade Types and Compensated Cell Enlargement. , 2008, , 47-62.		22
27	The Phosphate Fast-Responsive Genes <i>PECP1</i> and <i>PPsPase1</i> Affect Phosphocholine and Phosphoethanolamine Content. <i>Plant Physiology</i> , 2018, 176, 2943-2962.	4.8	22
28	Looking beyond the gene network – metabolic and mechanical cell drivers of leaf morphogenesis. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	22
29	V-ATPase dysfunction under excess zinc inhibits Arabidopsis cell expansion. <i>Plant Signaling and Behavior</i> , 2011, 6, 1253-1255.	2.4	19
30	Vacuolar Proton Pyrophosphatase Is Required for High Magnesium Tolerance in Arabidopsis. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3617.	4.1	15
31	Characterization of the stromal protease(s) degrading the cross-linked products of the D1 protein generated by photoinhibition of photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2001, 1503, 385-395.	1.0	14
32	Class III compensation, represented by KRP2 overexpression, depends on V-ATPase activity in proliferative cells. <i>Plant Signaling and Behavior</i> , 2013, 8, e27204.	2.4	14
33	Excess Pyrophosphate within Guard Cells Delays Stomatal Closure. <i>Plant and Cell Physiology</i> , 2019, 60, 875-887.	3.1	14
34	Two tonoplast proton pumps function in Arabidopsis embryo development. <i>New Phytologist</i> , 2020, 225, 1606-1617.	7.3	14
35	Organ size control in Arabidopsis: Insights from compensation studies. <i>Plant Morphology</i> , 2010, 22, 65-71.	0.1	14
36	Editorial: Multiple Facets of H ⁺ -Pyrophosphatase and Related Enzymes. <i>Frontiers in Plant Science</i> , 2016, 7, 1265.	3.6	11

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37	Molecular Basis for Natural Vegetative Propagation via Regeneration in North American Lake Cress, <i>Rorippa aquatica</i> (Brassicaceae). <i>Plant and Cell Physiology</i> , 2020, 61, 353-369.	3.1	11
38	SRPP, a cell-wall protein is involved in development and protection of seeds and root hairs in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2017, 58, pcx008.	3.1	10
39	Excess Pyrophosphate Restrains Pavement Cell Morphogenesis and Alters Organ Flatness in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 31.	3.6	10
40	Stem integrity in <i>Arabidopsis thaliana</i> requires a load-bearing epidermis. <i>Development</i> (Cambridge), 2021, 148, .	2.5	9
41	Multiple functions of the vacuole in plant growth and fruit quality. <i>Molecular Horticulture</i> , 2021, 1, .	5.8	9
42	A Decrease in Ambient Temperature Induces Post-Mitotic Enlargement of Palisade Cells in North American Lake Cress. <i>PLoS ONE</i> , 2015, 10, e0141247.	2.5	8
43	A Method Enabling Comprehensive Isolation of <i>Arabidopsis</i> Mutants Exhibiting Unusual Root Mechanical Behavior. <i>Frontiers in Plant Science</i> , 2021, 12, 646404.	3.6	6
44	Roles of the vacuolar H ⁺ -PPase in seed storage oil mobilization and plant development. <i>Plant Morphology</i> , 2014, 26, 45-51.	0.1	6
45	Balanced cell proliferation and expansion is essential for flowering stem growth control. <i>Plant Signaling and Behavior</i> , 2015, 10, e992755.	2.4	4
46	Lack of Vacuolar H ⁺ -Pyrophosphatase and Cytosolic Pyrophosphatases Causes Fatal Developmental Defects in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 655.	3.6	2