Paul E Verslues

List of Publications by Citations

48 papers	5,681 citations	30 h-index	52 g-index
52 ext. papers	6,729 ext. citations	8.2 avg, IF	5.99 L-index

#	Paper	IF	Citations
48	Methods and concepts in quantifying resistance to drought, salt and freezing, abiotic stresses that affect plant water status. *Plant Journal*, **2006**, 45, 523-39	6.9	1029
47	Endogenous siRNAs derived from a pair of natural cis-antisense transcripts regulate salt tolerance in Arabidopsis. *Cell*, **2005**, 123, 1279-91	56.2	887
46	Identification of two protein kinases required for abscisic acid regulation of seed germination, root growth, and gene expression in Arabidopsis. *Plant Cell*, **2007**, 19, 485-94	11.6	482
45	Proline metabolism and its implications for plant-environment interaction. *The Arabidopsis Book*, **2010**, 8, e0140	3	291
44	Arabidopsis decuple mutant reveals the importance of SnRK2 kinases in osmotic stress responses in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 1717-22	11.5	243
43	Essential role of tissue-specific proline synthesis and catabolism in growth and redox balance at low water potential. *Plant Physiology*, **2011**, 157, 292-304	6.6	238
42	SOS2 promotes salt tolerance in part by interacting with the vacuolar H+-ATPase and upregulating its transport activity. *Molecular and Cellular Biology*, **2007**, 27, 7781-90	4.8	194
41	Role of abscisic acid (ABA) and Arabidopsis thaliana ABA-insensitive loci in low water potential-induced ABA and proline accumulation. *Journal of Experimental Botany*, **2006**, 57, 201-12	7	193
40	Unique drought resistance functions of the highly ABA-induced clade A protein phosphatase 2Cs. *Plant Physiology*, **2012**, 160, 379-95	6.6	173
39	Interaction of SOS2 with nucleoside diphosphate kinase 2 and catalases reveals a point of connection between salt stress and H2O2 signaling in Arabidopsis thaliana. *Molecular and Cellular Biology*, **2007**, 27, 7771-80	4.8	156
38	Root growth and oxygen relations at low water potentials. Impact Of oxygen availability in polyethylene glycol solutions. *Plant Physiology*, **1998**, 116, 1403-12	6.6	146
37	Mechanisms independent of abscisic acid (ABA) or proline feedback have a predominant role in transcriptional regulation of proline metabolism during low water potential and stress recovery. *Plant, Cell and Environment*, **2010**, 33, 1838-51	8.4	138
36	Proline accumulation in maize (Zea mays L.) primary roots at low water potentials. II. Metabolic source of increased proline deposition in the elongation zone. *Plant Physiology*, **1999**, 119, 1349-60	6.6	110
35	Drought, metabolites, and Arabidopsis natural variation: a promising combination for understanding adaptation to water-limited environments. *Current Opinion in Plant Biology*, **2011**, 14, 240-5	9.9	108
34	Dynamic proline metabolism: importance and regulation in water limited environments. *Frontiers in Plant Science*, **2015**, 6, 484	6.2	106
33	Altered ABA, proline and hydrogen peroxide in an Arabidopsis glutamate:glyoxylate aminotransferase mutant. *Plant Molecular Biology*, **2007**, 64, 205-17	4.6	101
32	Intron-mediated alternative splicing of Arabidopsis P5CS1 and its association with natural variation in proline and climate adaptation. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 9197-202	11.5	99

31	New developments in abscisic acid perception and metabolism. *Current Opinion in Plant Biology*, **2007**, 10, 447-52	9.9	92
30	Genome-wide association mapping combined with reverse genetics identifies new effectors of low water potential-induced proline accumulation in Arabidopsis. *Plant Physiology*, **2014**, 164, 144-59	6.6	83
29	Role of the putative osmosensor Arabidopsis histidine kinase1 in dehydration avoidance and low-water-potential response. *Plant Physiology*, **2013**, 161, 942-53	6.6	74
28	Mutation of SAD2, an importin beta-domain protein in Arabidopsis, alters abscisic acid sensitivity. *Plant Journal*, **2006**, 47, 776-87	6.9	73
27	The ongoing search for the molecular basis of plant osmosensing. *Journal of General Physiology*, **2015**, 145, 389-94	3.4	67
26	LWR1 and LWR2 are required for osmoregulation and osmotic adjustment in Arabidopsis. *Plant Physiology*, **2004**, 136, 2831-42	6.6	65
25	Protein Phosphatase 2Cs and Control Microtubule Stability, Plant Growth, and Drought Response. *Plant Cell*, **2017**, 29, 169-191	11.6	56
24	ABA and cytokinins: challenge and opportunity for plant stress research. *Plant Molecular Biology*, **2016**, 91, 629-40	4.6	48
23	Proline Coordination with Fatty Acid Synthesis and Redox Metabolism of Chloroplast and Mitochondria. *Plant Physiology*, **2016**, 172, 1074-1088	6.6	40
22	Phosphoproteomics of Highly ABA-Induced1 identifies AT-Hook-Like10 phosphorylation required for stress growth regulation. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 2354-2363	11.5	39
21	Plastid osmotic stress activates cellular stress responses in Arabidopsis. *Plant Physiology*, **2014**, 165, 119-28	6.6	38
20	Stress physiology functions of the Arabidopsis histidine kinase cytokinin receptors. *Physiologia Plantarum*, **2015**, 154, 369-80	4.6	34
19	Exploiting Differential Gene Expression and Epistasis to Discover Candidate Genes for Drought-Associated QTLs in Arabidopsis thaliana. *Plant Cell*, **2015**, 27, 969-83	11.6	31
18	Natural variation identifies genes affecting drought-induced abscisic acid accumulation in. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11536-11541	11.5	29
17	Time to grow: factors that control plant growth during mild to moderate drought stress. *Plant, Cell and Environment*, **2017**, 40, 177-179	8.4	25
16	Divergent low water potential response in Arabidopsis thaliana accessions Landsberg erecta and Shahdara. *Plant, Cell and Environment*, **2013**, 36, 994-1008	8.4	24
15	Interactive effects of water limitation and elevated temperature on the physiology, development and fitness of diverse accessions of Brachypodium distachyon. *New Phytologist*, **2017**, 214, 132-144	9.8	23
14	Functional characterization of an ornithine cyclodeaminase-like protein of Arabidopsis thaliana. *BMC Plant Biology*, **2013**, 13, 182	5.3	22

13	At14a-Like1 participates in membrane-associated mechanisms promoting growth during drought in Arabidopsis thaliana. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 10545-50	11.5	20
12	The flip side of phospho-signalling: Regulation of protein dephosphorylation and the protein phosphatase 2Cs. *Plant, Cell and Environment*, **2019**, 42, 2913-2930	8.4	20
11	Quantification of water stress-induced osmotic adjustment and proline accumulation for Arabidopsis thaliana molecular genetic studies. *Methods in Molecular Biology*, **2010**, 639, 301-15	1.4	19
10	Comparative Analysis of Phosphoproteome Remodeling After Short Term Water Stress and ABA Treatments versus Longer Term Water Stress Acclimation. *Frontiers in Plant Science*, **2017**, 8, 523	6.2	14
9	Natural Variation in 9-Cis-Epoxycartenoid Dioxygenase 3 and ABA Accumulation. *Plant Physiology*, **2019**, 179, 1620-1631	6.6	12
8	Highly ABA-Induced 1 (HAI1)-Interacting protein HIN1 and drought acclimation-enhanced splicing efficiency at intron retention sites. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 22376-22385	11.5	12
7	Epigenetics and RNA Processing: Connections to Drought, Salt, and ABA?. *Methods in Molecular Biology*, **2017**, 1631, 3-21	1.4	7
6	Rapid Quantification of Abscisic Acid by GC-MS/MS for Studies of Abiotic Stress Response. *Methods in Molecular Biology*, **2017**, 1631, 325-335	1.4	7
5	Low Water Potential and At14a-Like1 (AFL1) Effects on Endocytosis and Actin Filament Organization. *Plant Physiology*, **2019**, 179, 1594-1607	6.6	4
4	Drought tolerance mechanisms and their molecular basis **2014**, 15-46		3
3	Size and activity of the root meristem: a key for drought resistance and a key model of drought-related signaling.. *Physiologia Plantarum*, **2022**, e13622	4.6	3
2	Spatial differences in stoichiometry of EGR phosphatase and Microtubule-Associated Stress Protein 1 control root meristem activity during drought stress. *Plant Cell*, **2021**,	11.6	2
1	Protein phosphorylation: Examining the plant CPU. *Trends in Plant Science*, **1996**, 1, 289-291	13.1	1