Christa Testerink

List of Publications by Citations

55 papers	4,984 citations	33 h-index	61 g-index
61 ext. papers	6,487 ext. citations	7.4 avg, IF	6.29 L-index

#	Paper	IF	Citations
55	Phosphatidic acid: a multifunctional stress signaling lipid in plants. *Trends in Plant Science*, **2005**, 10, 368-75	13.1	463
54	Salt Tolerance Mechanisms of Plants. *Annual Review of Plant Biology*, **2020**, 71, 403-433	30.7	326
53	Molecular, cellular, and physiological responses to phosphatidic acid formation in plants. *Journal of Experimental Botany*, **2011**, 62, 2349-61	7	275
52	A protein kinase target of a PDK1 signalling pathway is involved in root hair growth in Arabidopsis. *EMBO Journal*, **2004**, 23, 572-81	13	259
51	Tuning plant signaling and growth to survive salt. *Trends in Plant Science*, **2015**, 20, 586-94	13.1	234
50	Roots Withstanding their Environment: Exploiting Root System Architecture Responses to Abiotic Stress to Improve Crop Tolerance. *Frontiers in Plant Science*, **2016**, 7, 1335	6.2	209
49	Plant phospholipid signaling: "in a nutshell". *Journal of Lipid Research*, **2009**, 50 Suppl, S260-5	6.3	206
48	Halotropism is a response of plant roots to avoid a saline environment. *Current Biology*, **2013**, 23, 2044-50	9.3	181
47	An electrostatic/hydrogen bond switch as the basis for the specific interaction of phosphatidic acid with proteins. *Journal of Biological Chemistry*, **2007**, 282, 11356-64	5.4	176
46	Plant PA signaling via diacylglycerol kinase. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2009**, 1791, 869-75	5	175
45	Multiple PLDs required for high salinity and water deficit tolerance in plants. *Plant and Cell Physiology*, **2009**, 50, 78-89	4.9	170
44	Isolation and identification of phosphatidic acid targets from plants. *Plant Journal*, **2004**, 39, 527-36	6.9	169
43	Salt stress signals shape the plant root. *Current Opinion in Plant Biology*, **2011**, 14, 296-302	9.9	159
42	How Plants Sense and Respond to Stressful Environments. *Plant Physiology*, **2020**, 182, 1624-1635	6.6	136
41	The Snf1-related protein kinases SnRK2.4 and SnRK2.10 are involved in maintenance of root system architecture during salt stress. *Plant Journal*, **2012**, 72, 436-49	6.9	120
40	Identification of novel candidate phosphatidic acid-binding proteins involved in the salt-stress response of Arabidopsis thaliana roots. *Biochemical Journal*, **2013**, 450, 573-81	3.8	115
39	Phospholipid signaling responses in salt-stressed rice leaves. *Plant and Cell Physiology*, **2009**, 50, 986-97	4.9	114

38	The Arabidopsis leucine-rich repeat receptor kinase MIK2/LRR-KISS connects cell wall integrity sensing, root growth and response to abiotic and biotic stresses. *PLoS Genetics*, **2017**, 13, e1006832	6	114
37	The art of being flexible: how to escape from shade, salt, and drought. *Plant Physiology*, **2014**, 166, 5-22	6.6	108
36	Phosphatidic acid binds to and inhibits the activity of Arabidopsis CTR1. *Journal of Experimental Botany*, **2007**, 58, 3905-14	7	107
35	Genetic architecture of plant stress resistance: multi-trait genome-wide association mapping. *New Phytologist*, **2017**, 213, 1346-1362	9.8	99
34	Out of Shape During Stress: A Key Role for Auxin. *Trends in Plant Science*, **2018**, 23, 783-793	13.1	89
33	Genetic Components of Root Architecture Remodeling in Response to Salt Stress. *Plant Cell*, **2017**, 29, 3198-3213	11.6	80
32	Capturing Arabidopsis root architecture dynamics with ROOT-FIT reveals diversity in responses to salinity. *Plant Physiology*, **2014**, 166, 1387-402	6.6	80
31	Mitochondrial uncouplers inhibit clathrin-mediated endocytosis largely through cytoplasmic acidification. *Nature Communications*, **2016**, 7, 11710	17.4	71
30	Reassessing the role of phospholipase D in the Arabidopsis wounding response. *Plant, Cell and Environment*, **2009**, 32, 837-50	8.4	64
29	Signalling diacylglycerol pyrophosphate, a new phosphatidic acid metabolite. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2006**, 1761, 151-9	5	54
28	Phosphatidic acid, a versatile water-stress signal in roots. *Frontiers in Plant Science*, **2013**, 4, 525	6.2	53
27	Phosphatidic acid binding proteins display differential binding as a function of membrane curvature stress and chemical properties. *Biochimica Et Biophysica Acta - Biomembranes*, **2016**, 1858, 2709-2716	3.8	51
26	DIACYLGLYCEROL ACYLTRANSFERASE1 Contributes to Freezing Tolerance. *Plant Physiology*, **2018**, 177, 1410-1424	6.6	48
25	Natural variation in rosette size under salt stress conditions corresponds to developmental differences between Arabidopsis accessions and allelic variation in the LRR-KISS gene. *Journal of Experimental Botany*, **2016**, 67, 2127-38	7	47
24	Phosphate-Dependent Root System Architecture Responses to Salt Stress. *Plant Physiology*, **2016**, 172, 690-706	6.6	44
23	Modeling halotropism: a key role for root tip architecture and reflux loop remodeling in redistributing auxin. *Development (Cambridge)*, **2016**, 143, 3350-62	6.6	38
22	Identification and functional characterization of the Arabidopsis Snf1-related protein kinase SnRK2.4 phosphatidic acid-binding domain. *Plant, Cell and Environment*, **2015**, 38, 614-24	8.4	33
21	Liposome-binding assays to assess specificity and affinity of phospholipid-protein interactions. *Methods in Molecular Biology*, **2013**, 1009, 261-71	1.4	32

20	A novel class of PTEN protein in Arabidopsis displays unusual phosphoinositide phosphatase activity and efficiently binds phosphatidic acid. *Biochemical Journal*, **2012**, 441, 161-71	3.8	30
19	SnRK2 Protein Kinases and mRNA Decapping Machinery Control Root Development and Response to Salt. *Plant Physiology*, **2020**, 182, 361-377	6.6	29
18	Soil Salinity Limits Plant Shade Avoidance. *Current Biology*, **2019**, 29, 1669-1676.e4	6.3	26
17	Regulation of mRNA decay in plant responses to salt and osmotic stress. *Cellular and Molecular Life Sciences*, **2017**, 74, 1165-1176	10.3	25
16	Biochemical characterization of the tomato phosphatidylinositol-specific phospholipase C (PI-PLC) family and its role in plant immunity. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2016**, 1861, 1365-1378	5	23
15	Phosphoenolpyruvate carboxylase from C4 leaves is selectively targeted for inhibition by anionic phospholipids. *Plant Physiology*, **2010**, 152, 634-8	6.6	22
14	Plant AP180 N-Terminal Homolog Proteins Are Involved in Clathrin-Dependent Endocytosis during Pollen Tube Growth in Arabidopsis thaliana. *Plant and Cell Physiology*, **2019**, 60, 1316-1330	4.9	19
13	Genetic Loci Associated with Early Salt Stress Responses of Roots. *IScience*, **2019**, 21, 458-473	6.1	16
12	PA, a stress-induced short cut to switch-on ethylene signalling by switching-off CTR1?. *Plant Signaling and Behavior*, **2008**, 3, 681-3	2.5	16
11	Root plasticity under abiotic stress. *Plant Physiology*, **2021**, 187, 1057-1070	6.6	16
10	Halotropism requires phospholipase Dζ1-mediated modulation of cellular polarity of auxin transport carriers. *Plant, Cell and Environment*, **2020**, 43, 143-158	8.4	15
9	The physical chemistry of the enigmatic phospholipid diacylglycerol pyrophosphate. *Frontiers in Plant Science*, **2012**, 3, 40	6.2	13
8	How roots and shoots communicate through stressful times. *Trends in Plant Science*, **2021**, 26, 940-952	13.1	10
7	A mixed-model QTL analysis for salt tolerance in seedlings of crop-wild hybrids of lettuce. *Molecular Breeding*, **2014**, 34, 1389-1400	3.4	8
6	Metal halide perovskite toxicity effects on plants are caused by iodide ions.. *IScience*, **2022**, 25, 103583	6.1	4
5	Phenotyping Tomato Root Developmental Plasticity in Response to Salinity in Soil Rhizotrons. *Plant Phenomics*, **2021**, 2021, 2760532	7	4
4	Arabidopsis root responses to salinity depend on pectin modification and cell wall sensing		2
3	Lipid affinity beads: from identifying new lipid binding proteins to assessing their binding properties. *Methods in Molecular Biology*, **2013**, 1009, 273-80	1.4	1

2	Balancing growth amidst salinity stress lifestyle perspectives from the extremophyte model Schrenkiella parvula		1
1	Fighting salt or enemies: shared perception and signaling strategies. *Current Opinion in Plant Biology*, **2021**, 64, 102120	9.9	0