

Christa Testerink

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Metal halide perovskite toxicity effects on plants are caused by iodide ions.. <i>IScience</i> , 2022 , 25, 103583	6.1	4
54	Fighting salt or enemies: shared perception and signaling strategies. <i>Current Opinion in Plant Biology</i> , 2021 , 64, 102120	9.9	0
53	Phenotyping Tomato Root Developmental Plasticity in Response to Salinity in Soil Rhizotrons. <i>Plant Phenomics</i> , 2021 , 2021, 2760532	7	4
52	Root plasticity under abiotic stress. <i>Plant Physiology</i> , 2021 , 187, 1057-1070	6.6	16
51	How roots and shoots communicate through stressful times. <i>Trends in Plant Science</i> , 2021 , 26, 940-952	13.1	10
50	How Plants Sense and Respond to Stressful Environments. <i>Plant Physiology</i> , 2020 , 182, 1624-1635	6.6	136
49	Salt Tolerance Mechanisms of Plants. <i>Annual Review of Plant Biology</i> , 2020 , 71, 403-433	30.7	326
48	SnRK2 Protein Kinases and mRNA Decapping Machinery Control Root Development and Response to Salt. <i>Plant Physiology</i> , 2020 , 182, 361-377	6.6	29
47	Halotropism requires phospholipase D α -mediated modulation of cellular polarity of auxin transport carriers. <i>Plant, Cell and Environment</i> , 2020 , 43, 143-158	8.4	15
46	Soil Salinity Limits Plant Shade Avoidance. <i>Current Biology</i> , 2019 , 29, 1669-1676.e4	6.3	26
45	Plant AP180 N-Terminal Homolog Proteins Are Involved in Clathrin-Dependent Endocytosis during Pollen Tube Growth in Arabidopsis thaliana. <i>Plant and Cell Physiology</i> , 2019 , 60, 1316-1330	4.9	19
44	Genetic Loci Associated with Early Salt Stress Responses of Roots. <i>IScience</i> , 2019 , 21, 458-473	6.1	16
43	DIACYLGLYCEROL ACYLTRANSFERASE1 Contributes to Freezing Tolerance. <i>Plant Physiology</i> , 2018 , 177, 1410-1424	6.6	48
42	Out of Shape During Stress: A Key Role for Auxin. <i>Trends in Plant Science</i> , 2018 , 23, 783-793	13.1	89
41	Genetic Components of Root Architecture Remodeling in Response to Salt Stress. <i>Plant Cell</i> , 2017 , 29, 3198-3213	11.6	80
40	Genetic architecture of plant stress resistance: multi-trait genome-wide association mapping. <i>New Phytologist</i> , 2017 , 213, 1346-1362	9.8	99
39	Regulation of mRNA decay in plant responses to salt and osmotic stress. <i>Cellular and Molecular Life Sciences</i> , 2017 , 74, 1165-1176	10.3	25

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. <i>PLoS Genetics</i> , 2017 , 13, e1006832	6	114
37	Mitochondrial uncouplers inhibit clathrin-mediated endocytosis largely through cytoplasmic acidification. <i>Nature Communications</i> , 2016 , 7, 11710	17.4	71
36	Modeling halotropism: a key role for root tip architecture and reflux loop remodeling in redistributing auxin. <i>Development (Cambridge)</i> , 2016 , 143, 3350-62	6.6	38
35	Natural variation in rosette size under salt stress conditions corresponds to developmental differences between Arabidopsis accessions and allelic variation in the LRR-KISS gene. <i>Journal of Experimental Botany</i> , 2016 , 67, 2127-38	7	47
34	Biochemical characterization of the tomato phosphatidylinositol-specific phospholipase C (PI-PLC) family and its role in plant immunity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016 , 1861, 1365-1378	5	23
33	Roots Withstanding their Environment: Exploiting Root System Architecture Responses to Abiotic Stress to Improve Crop Tolerance. <i>Frontiers in Plant Science</i> , 2016 , 7, 1335	6.2	209
32	Phosphate-Dependent Root System Architecture Responses to Salt Stress. <i>Plant Physiology</i> , 2016 , 172, 690-706	6.6	44
31	Phosphatidic acid binding proteins display differential binding as a function of membrane curvature stress and chemical properties. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 2709-2716	3.8	51
30	Tuning plant signaling and growth to survive salt. <i>Trends in Plant Science</i> , 2015 , 20, 586-94	13.1	234
29	Identification and functional characterization of the Arabidopsis Snf1-related protein kinase SnRK2.4 phosphatidic acid-binding domain. <i>Plant, Cell and Environment</i> , 2015 , 38, 614-24	8.4	33
28	The art of being flexible: how to escape from shade, salt, and drought. <i>Plant Physiology</i> , 2014 , 166, 5-22	6.6	108
27	A mixed-model QTL analysis for salt tolerance in seedlings of crop-wild hybrids of lettuce. <i>Molecular Breeding</i> , 2014 , 34, 1389-1400	3.4	8
26	Capturing Arabidopsis root architecture dynamics with ROOT-FIT reveals diversity in responses to salinity. <i>Plant Physiology</i> , 2014 , 166, 1387-402	6.6	80
25	Halotropism is a response of plant roots to avoid a saline environment. <i>Current Biology</i> , 2013 , 23, 2044-50	5.3	181
24	Identification of novel candidate phosphatidic acid-binding proteins involved in the salt-stress response of Arabidopsis thaliana roots. <i>Biochemical Journal</i> , 2013 , 450, 573-81	3.8	115
23	Lipid affinity beads: from identifying new lipid binding proteins to assessing their binding properties. <i>Methods in Molecular Biology</i> , 2013 , 1009, 273-80	1.4	1
22	Liposome-binding assays to assess specificity and affinity of phospholipid-protein interactions. <i>Methods in Molecular Biology</i> , 2013 , 1009, 261-71	1.4	32
21	Phosphatidic acid, a versatile water-stress signal in roots. <i>Frontiers in Plant Science</i> , 2013 , 4, 525	6.2	53

20	The Snf1-related protein kinases SnRK2.4 and SnRK2.10 are involved in maintenance of root system architecture during salt stress. <i>Plant Journal</i> , 2012 , 72, 436-49	6.9	120
19	The physical chemistry of the enigmatic phospholipid diacylglycerol pyrophosphate. <i>Frontiers in Plant Science</i> , 2012 , 3, 40	6.2	13
18	A novel class of PTEN protein in Arabidopsis displays unusual phosphoinositide phosphatase activity and efficiently binds phosphatidic acid. <i>Biochemical Journal</i> , 2012 , 441, 161-71	3.8	30
17	Salt stress signals shape the plant root. <i>Current Opinion in Plant Biology</i> , 2011 , 14, 296-302	9.9	159
16	Molecular, cellular, and physiological responses to phosphatidic acid formation in plants. <i>Journal of Experimental Botany</i> , 2011 , 62, 2349-61	7	275
15	Phosphoenolpyruvate carboxylase from C4 leaves is selectively targeted for inhibition by anionic phospholipids. <i>Plant Physiology</i> , 2010 , 152, 634-8	6.6	22
14	Plant phospholipid signaling: "in a nutshell". <i>Journal of Lipid Research</i> , 2009 , 50 Suppl, S260-5	6.3	206
13	Multiple PLDs required for high salinity and water deficit tolerance in plants. <i>Plant and Cell Physiology</i> , 2009 , 50, 78-89	4.9	170
12	Phospholipid signaling responses in salt-stressed rice leaves. <i>Plant and Cell Physiology</i> , 2009 , 50, 986-97	4.9	114
11	Reassessing the role of phospholipase D in the Arabidopsis wounding response. <i>Plant, Cell and Environment</i> , 2009 , 32, 837-50	8.4	64
10	Plant PA signaling via diacylglycerol kinase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009 , 1791, 869-75	5	175
9	PA, a stress-induced short cut to switch-on ethylene signalling by switching-off CTR1?. <i>Plant Signaling and Behavior</i> , 2008 , 3, 681-3	2.5	16
8	Phosphatidic acid binds to and inhibits the activity of Arabidopsis CTR1. <i>Journal of Experimental Botany</i> , 2007 , 58, 3905-14	7	107
7	An electrostatic/hydrogen bond switch as the basis for the specific interaction of phosphatidic acid with proteins. <i>Journal of Biological Chemistry</i> , 2007 , 282, 11356-64	5.4	176
6	Signalling diacylglycerol pyrophosphate, a new phosphatidic acid metabolite. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2006 , 1761, 151-9	5	54
5	Phosphatidic acid: a multifunctional stress signaling lipid in plants. <i>Trends in Plant Science</i> , 2005 , 10, 368-75	15.1	463
4	Isolation and identification of phosphatidic acid targets from plants. <i>Plant Journal</i> , 2004 , 39, 527-36	6.9	169
3	A protein kinase target of a PDK1 signalling pathway is involved in root hair growth in Arabidopsis. <i>EMBO Journal</i> , 2004 , 23, 572-81	13	259

2	Arabidopsis root responses to salinity depend on pectin modification and cell wall sensing	2
1	Balancing growth amidst salinity stress ¶lifestyle perspectives from the extremophyte model Schrenkiella parvula	1