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List of Publications by Year
in descending order

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74 papers	4,322 citations	76326 40 h-index	110387 64 g-index
76 all docs	76 docs citations	76 times ranked	3647 citing authors

#	Article	IF	Citations
1	Testing the assertion that â€˜local food is bestâ€™: the challenges of an evidence-based approach. Trends in Food Science and Technology, 2008, 19, 265-274.	15.1	291
2	Plant Metabolites and Nutritional Quality of Vegetables. Journal of Food Science, 2008, 73, R48-65.	3.1	232
3	Identification of a New Glucosinolate-Rich Cell Type in Arabidopsis Flower Stalk. Plant Physiology, 2000, 124, 599-608.	4.8	229
4	THE PRESSURE PROBE: A Versatile Tool in Plant Cell Physiology. Annual Review of Plant Biology, 1999, 50, 447-472.	14.3	195
5	Genetic dissection of root growth in rice (Oryza sativa L.). II: mapping quantitative trait loci using molecular markers. Theoretical and Applied Genetics, 1997, 95, 143-152.	3.6	187
6	Xyloglucan Endotransglycosylase Activity, Microfibril Orientation and the Profiles of Cell Wall Properties Along Growing Regions of Maize Roots. Journal of Experimental Botany, 1993, 44, 1281-1289.	4.8	155
7	Genetic dissection of root growth in rice (Oryza sativa L.) I: a hydrophonic screen. Theoretical and Applied Genetics, 1997, 95, 132-142.	3.6	124
8	Turgor Regulation of Sucrose Transport in Sugar Beet Taproot Tissue. Plant Physiology, 1986, 81, 478-481.	4.8	119
9	Quantitative trait loci associated with stomatal conductance, leaf rolling and heading date mapped in upland rice (Oryza sativa). New Phytologist, 1997, 137, 83-91.	7.3	111
10	Salt tolerance in the halophyte Suaeda maritima L. Dum.. Planta, 1985, 165, 392-396.	3.2	97
11	Turgor, Growth and Rheological Gradients of Wheat Roots Following Osmotic Stress. Journal of Experimental Botany, 1991, 42, 1043-1049.	4.8	95
12	Biophysics of the Inhibition of the Growth of Maize Roots by Lowered Temperature. Plant Physiology, 1990, 93, 222-230.	4.8	94
13	Concentrations of inorganic and organic solutes in extracts from individual epidermal, mesophyll and bundle-sheath cells of barley leaves. Planta, 1994, 192, 310.	3.2	90
14	Water Relations of Leaf Epidermal Cells of Tradescantia virginiana. Plant Physiology, 1981, 68, 1135-1143.	4.8	89
15	The intercellular distribution of vacuolar solutes in the epidermis and mesophyll of barley leaves changes in response to NaCl. Journal of Experimental Botany, 1996, 47, 1413-1426.	4.8	84
16	Components of Arabidopsis Defense- and Ethylene-Signaling Pathways Regulate Susceptibility to Cauliflower mosaic virus by Restricting Long-Distance Movement. Molecular Plant-Microbe Interactions, 2007, 20, 659-670.	2.6	75
17	Extraction and analysis of sap from individual wheat leaf cells: the effect of sampling speed on the osmotic pressure of extracted sap. Plant, Cell and Environment, 1989, 12, 919-926.	5.7	71
18	Biophysical and biochemical control of cell expansion in roots and leaves. Journal of Experimental Botany, 1994, 45, 1721-1731.	4.8	71

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19	Carbohydrates in Individual Cells of Epidermis, Mesophyll, and Bundle Sheath in Barley Leaves with Changed Export or Photosynthetic Rate. Plant Physiology, 1998, 118, 1525-1532.	4.8	70
20	Changes in antioxidant compounds in white cabbage during winter storage. Postharvest Biology and Technology, 2009, 52, 173-179.	6.0	69
21	Control of Wheat Root Elongation Growth. Journal of Experimental Botany, 1987, 38, 948-959.	4.8	67
22	The effect of abscisic acid on cell turgor pressures, solute content and growth of wheat roots. Planta, 1987, 170, 257-262.	3.2	66
23	Effect of Elevated Systemic Concentrations of Ammonia and Urea on the Metabolite and Ionic Composition of Oviductal Fluid in Cattle1. Biology of Reproduction, 2002, 66, 1797-1804.	2.7	66
24	Water-relation parameters of epidermal and cortical cells in the primary root ofTriticum aestivum L.. Planta, 1983, 158, 230-236.	3.2	65
25	Ion distribution in cereal leaves: pathways and mechanisms. Philosophical Transactions of the Royal Society B: Biological Sciences, 1993, 341, 75-86.	4.0	64
26	Cell sampling and analysis (SiCSA): metabolites measured at single cell resolution. Journal of Experimental Botany, 2001, 52, 623-630.	4.8	57
27	Elemental propagation of calcium signals in response-specific patterns determined by environmental stimulus strength. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 1932-1937.	7.1	56
28	The integration of whole-root and cellular hydraulic conductivities in cereal roots. Planta, 1988, 174, 1-7.	3.2	55
29	Measurement of Yield Threshold and Cell Wal Extensibility of Intact Wheat Roots under Different Ionic, Osmotic and Temperature Treatments. Journal of Experimental Botany, 1990, 41, 669-675.	4.8	55
30	Balancing supply and demand: the spatial regulation of carbon metabolism in grass and cereal leaves. Journal of Experimental Botany, 2003, 54, 489-494.	4.8	52
31	Correlation Network Analysis reveals a sequential reorganization of metabolic and transcriptional states during germination and gene-metabolite relationships in developing seedlings of Arabidopsis. BMC Systems Biology, 2010, 4, 62.	3.0	52
32	A Comparison of Methods for Measuring Turgor Pressures and Osmotic Pressures of Cells of Red Beet Storage Tissue. Journal of Experimental Botany, 1984, 35, 1675-1683.	4.8	50
33	Cell expansion rate, temperature and turgor pressure in growing leaves of Lolium temulentum L.. New Phytologist, 1989, 112, 1-5.	7.3	48
34	The History of Tissue Tension. Annals of Botany, 1996, 77, 657-665.	2.9	48
35	Radial Turgor Pressure Profiles in Growing and Mature Zones of Wheat Rootsâ€"A Modification of the Pressure Probe. Journal of Experimental Botany, 1989, 40, 567-571.	4.8	45
36	Concentrations of Vacuolar Inorganic Ions in Individual Cells of Intact Wheat Leaf Epidermis. Journal of Experimental Botany, 1991, 42, 305-309.	4.8	44

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37	Rubisco Small Subunit, Chlorophylla/b-Binding Protein and Sucrose:Fructan-6-Fructosyl Transferase Gene Expression and Sugar Status in Single Barley Leaf Cells in Situ. Cell Type Specificity and Induction by Light. Plant Physiology, 2002, 130, 1335-1348.	4.8	44
38	Determination of inorganic cations and anions in single plant cells by capillary zone electrophoresis. Journal of Chromatography A, 1998, 809, 231-239.	3.7	42
39	Aluminium-induced alteration of ion homeostasis in root tip vacuoles of two maize varieties differing in Al tolerance. Plant Science, 2011, 180, 709-715.	3.6	42
40	An attempt to use isolated vacuoles to determine the distribution of sodium and potassium in cells of storage roots of red beet (Beta vulgaris L.). Planta, 1983, 159, 469-475.	3.2	41
41	Turgor-regulation during extension growth and osmotic stress of maize roots. An example of single-cell mapping. Plant and Soil, 1996, 187, 11-21.	3.7	41
42	The regulation of turgor pressure during sucrose mobilisation and salt accumulation by excised storage-root tissue of red beet. Planta, 1987, 170, 353-361.	3.2	40
43	Measurement of Gradients of Water Potential in Elongating Pea Stem by Pressure Probe and Picolitre Osmometry. Journal of Experimental Botany, 1992, 43, 1325-1331.	4.8	36
44	What makes plants different? Principles of extracellular matrix function in â€˜softâ€™ plant tissues. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2000, 125, 151-167.	1.8	36
45	The Mechanic State of â€œInner Tissueâ€•in the Growing Zone of Sunflower Hypocotyls and the Regulation of Its Growth Rate Following Excision. Plant Physiology, 2000, 123, 605-612.	4.8	35
46	Stimulation and inhibition of pine root growth by osmotic stress. New Phytologist, 1995, 130, 169-175.	7.3	33
47	The plant cell pressure probe. Biotechnology Letters, 2000, 22, 437-442.	2.2	33
48	Spatial and temporal distribution of solutes in the developing carrot taproot measured at single-cell resolution. Journal of Experimental Botany, 2000, 51, 567-577.	4.8	32
49	Changes in osmotic and turgor pressure in response to sugar accumulation in barley source leaves. Planta, 2002, 215, 210-219.	3.2	30
50	Longâ€‐distance movement of Cauliflower mosaic virus and host defence responses in Arabidopsis follow a predictable pattern that is determined by the leaf orthostichy. New Phytologist, 2007, 175, 707-717.	7.3	25
51	Control of wheat root growth. The effects of excision on growth, wall rheology and root anatomy. Planta, 1988, 176, 399-405.	3.2	24
52	Distribution of actin gene isoforms in the Arabidopsis leaf measured in microsamples from intact individual cells. Planta, 2002, 215, 287-292.	3.2	24
53	Turgor, solute import and growth in maize roots treated with galactose. Functional Plant Biology, 2004, 31, 1095.	2.1	24
54	Leaf illumination and root cooling inhibit bean leaf expansion by decreasing turgor pressure. Journal of Experimental Botany, 1994, 45, 415-422.	4.8	22

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55	Carbon allocation and sugar status in individual cells of barley leaves affects expression of Sucrose: Fructan 6-Fructosyltransferase gene. Annals of Applied Biology, 2001, 138, 27-32.	2.5	21
56	The influence of abscisic acid on the water relations of leaf epidermal cells of Rhoeo discolor. Plant Science Letters, 1983, 31, 253-259.	1.8	20
57	Turgor Pressure and Phototropism inSinapis albaL. Seedlings. Journal of Experimental Botany, 1988, 39, 291-299.	4.8	20
58	Biosensor reporting of root exudation from Hordeum vulgare in relation to shoot nitrate concentration. Journal of Experimental Botany, 2003, 54, 325-334.	4.8	18
59	Carbon Import into Developing Ovules ofPisum sativum: The Role of the Water Relations of the Seed Coat. Journal of Experimental Botany, 1993, 44, 937-945.	4.8	17
60	Tissue distribution of primary metabolism between epidermal, mesophyll and parenchymatous bundle sheath cells in barley leaves. Functional Plant Biology, 2000, 27, 747.	2.1	17
61	Sugar concentrations along and across the Ricinus communis L. hypocotyl measured by single cell sampling analysis. Planta, 2006, 224, 1303-1314.	3.2	17
62	Patterns of solute in individual mesophyll, bundle sheath and epidermal cells of barley leaves induced to accumulate carbohydrate. New Phytologist, 1997, 136, 97-104.	7.3	17
63	Life without water. Current Biology, 1992, 2, 594-596.	3.9	16
64	Extension growth in a barley mutant with reduced sensitivity to low temperature. New Phytologist, 1990, 115, 617-623.	7.3	15
65	Single cell analysis technique for comparison of specific mRNA abundance in plant cells. Journal of Plant Physiology, 2001, 158, 1089-1092.	3.5	14
66	Chemical speciation studies on DU contaminated soils using flow field flow fractionation linked to inductively coupled plasma mass spectrometry (FlFFF-ICP-MS). Journal of Environmental Monitoring, 2012, 14, 782.	2.1	14
67	Membrane Lipids and Phosphatidyl Choline Turnover in Embryos from Germinating Low and High Vigour Wheat (Triticum aestivum). Journal of Experimental Botany, 1982, 33, 631-642.	4.8	11
68	Incomplete turgor adjustment in Cladophora rupestrisunder fluctuating salinity regimes. Estuarine, Coastal and Shelf Science, 1992, 34, 413-427.	2.1	11
69	The transâ€tissue pathway and chemical fate of 14 C photoassimilate in carrot taproot. New Phytologist, 2000, 147, 299-306.	7.3	10
70	Leaf Diffusive Conductance and Tap Root Cell Turgor Pressure of Sugarbeet. Plant, Cell and Environment, 1987, 10, 735-740.	5.7	10
71	Turgor-regulation during extension growth and osmotic stress of maize roots. An example of single-cell mapping. , 1997, , 11-21.		9
72	Fine scale measurement and mapping of uranium in soil solution in soil and plant-soil microcosms, with special reference to depleted uranium. Plant and Soil, 2013, 368, 471-482.	3.7	8

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73	The effect of gibberellic acid on the response of leaf extension to low temperature. Plant, Cell and Environment, 2006, 29, 1329-1337.	5.7	7
74	Cellular and subcellular compartmentation of sulphate in leaves in relation to low sulphur mobility. Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science, 1995, 158, 63-65.	0.4	6