Mark A Tester

List of Publications by Year in Descending Order

218 papers	28,857 citations	77 h-index	169 g-index
233 ext. papers	34,132 ext. citations	8.3 avg, IF	7.61 L-index

#	Paper	IF	Citations
218	On the effects of CO2 atmosphere in the pyrolysis of Salicornia bigelovii. *Bioresource Technology Reports*, **2022**, 17, 100950	4.1	2
217	Digital insights: bridging the phenotype-to-genotype divide. *Journal of Experimental Botany*, **2021**, 72, 2807-2810	7	2
216	Early Growth Stage Characterization and the Biochemical Responses for Salinity Stress in Tomato. *Plants*, **2021**, 10,	4.5	6
215	Haplotype variations of major flowering time genes in quinoa unveil their role in the adaptation to different environmental conditions. *Plant, Cell and Environment*, **2021**, 44, 2565-2579	8.4	2
214	Genetic mapping of the early responses to salt stress in Arabidopsis thaliana. *Plant Journal*, **2021**, 107, 544-563	6.9	3
213	Assessing Rice Salinity Tolerance: From Phenomics to Association Mapping. *Methods in Molecular Biology*, **2021**, 2238, 339-375	1.4	0
212	The role of PQL genes in response to salinity tolerance in and barley. *Plant Direct*, **2021**, 5, e00301	3.3	
211	Quinoa Phenotyping Methodologies: An International Consensus. *Plants*, **2021**, 10,	4.5	3
210	Characterization of epidermal bladder cells in Chenopodium quinoa. *Plant, Cell and Environment*, **2021**, 44, 3606-3622	8.4	1
209	Strategies for engineering improved nitrogen use efficiency in crop plants via redistribution and recycling of organic nitrogen. *Current Opinion in Biotechnology*, **2021**, 73, 263-269	11.4	2
208	Abiotic Stress Tolerance in Quinoa. *Compendium of Plant Genomes*, **2021**, 139-167	0.8	4
207	Predicting Biomass and Yield in a Tomato Phenotyping Experiment Using UAV Imagery and Random Forest. *Frontiers in Artificial Intelligence*, **2020**, 3, 28	3	14
206	Emerging Technologies to Enable Sustainable Controlled Environment Agriculture in the Extreme Environments of Middle East-North Africa Coastal Regions. *Frontiers in Plant Science*, **2020**, 11, 801	6.2	0
205	The Use of High-Throughput Phenotyping for Assessment of Heat Stress-Induced Changes in Arabidopsis. *Plant Phenomics*, **2020**, 2020, 3723916	7	15
204	Diverse Traits Contribute to Salinity Tolerance of Wild Tomato Seedlings from the Galapagos Islands. *Plant Physiology*, **2020**, 182, 534-546	6.6	20
203	Dissecting new genetic components of salinity tolerance in two-row spring barley at the vegetative and reproductive stages. *PLoS ONE*, **2020**, 15, e0236037	3.7	11
202	Mobilizing Crop Biodiversity. *Molecular Plant*, **2020**, 13, 1341-1344	14.4	21

201	Energy costs of salt tolerance in crop plants. *New Phytologist*, **2020**, 225, 1072-1090	9.8	144
200	Dissecting new genetic components of salinity tolerance in two-row spring barley at the vegetative and reproductive stages **2020**, 15, e0236037		
199	Dissecting new genetic components of salinity tolerance in two-row spring barley at the vegetative and reproductive stages **2020**, 15, e0236037		
198	Dissecting new genetic components of salinity tolerance in two-row spring barley at the vegetative and reproductive stages **2020**, 15, e0236037		
197	Dissecting new genetic components of salinity tolerance in two-row spring barley at the vegetative and reproductive stages **2020**, 15, e0236037		
196	Breeding crops to feed 10 billion. *Nature Biotechnology*, **2019**, 37, 744-754	44.5	296
195	MVApp-Multivariate Analysis Application for Streamlined Data Analysis and Curation. *Plant Physiology*, **2019**, 180, 1261-1276	6.6	26
194	Barley yield formation under abiotic stress depends on the interplay between flowering time genes and environmental cues. *Scientific Reports*, **2019**, 9, 6397	4.9	33
193	Overexpression of the NAC transcription factor JUNGBRUNNEN1 (JUB1) increases salinity tolerance in tomato. *Plant Physiology and Biochemistry*, **2019**, 140, 113-121	5.4	20
192	Unmanned Aerial Vehicle-Based Phenotyping Using Morphometric and Spectral Analysis Can Quantify Responses of Wild Tomato Plants to Salinity Stress. *Frontiers in Plant Science*, **2019**, 10, 370	6.2	29
191	New plant breeding technologies for food security. *Science*, **2019**, 363, 1390-1391	33.3	85
190	Increasing Salinity Tolerance of Crops **2019**, 245-267		1
189	Quantile function modeling with application to salinity tolerance analysis of plant data. *BMC Plant Biology*, **2019**, 19, 526	5.3	3
188	Salt stress under the scalpel - dissecting the genetics of salt tolerance. *Plant Journal*, **2019**, 97, 148-163	6.9	104
187	High-throughput 3D modelling to dissect the genetic control of leaf elongation in barley (Hordeum vulgare). *Plant Journal*, **2019**, 98, 555-570	6.9	9
186	Mitochondrial and chloroplast genomes provide insights into the evolutionary origins of quinoa (Chenopodium quinoa Willd.). *Scientific Reports*, **2019**, 9, 185	4.9	13
185	Mapping of novel salt tolerance QTL in an Excalibur Kukri doubled haploid wheat population. *Theoretical and Applied Genetics*, **2018**, 131, 2179-2196	6	39
184	Abiotic Stress and Metabolomics **2018**, 61-85		12

183	Genomic and Genetic Studies of Abiotic Stress Tolerance in Barley. *Compendium of Plant Genomes*, **2018**, 259-286	0.8	7
182	Structural variations in wheat HKT1;5 underpin differences in Na transport capacity. *Cellular and Molecular Life Sciences*, **2018**, 75, 1133-1144	10.3	28
181	Speed breeding in growth chambers and glasshouses for crop breeding and model plant research. *Nature Protocols*, **2018**, 13, 2944-2963	18.8	168
180	Proof of Concept: Pozzolan Bricks for Saline Water Evaporative Cooling in Controlled Environment Agriculture. *Applied Engineering in Agriculture*, **2018**, 34, 929-937	0.8	2
179	The K-Uptake Permease 5 (AtKUP5) Contains a Functional Cytosolic Adenylate Cyclase Essential for K Transport. *Frontiers in Plant Science*, **2018**, 9, 1645	6.2	20
178	The Genome Sequence of the Wild Tomato Provides Insights Into Salinity Tolerance. *Frontiers in Plant Science*, **2018**, 9, 1402	6.2	41
177	Chloride on the Move. *Trends in Plant Science*, **2017**, 22, 236-248	13.1	97
176	The genome of Chenopodium quinoa. *Nature*, **2017**, 542, 307-312	50.4	345
175	Transition from a maternal to external nitrogen source in maize seedlings. *Journal of Integrative Plant Biology*, **2017**, 59, 261-274	8.3	6
174	AVP1: One Protein, Many Roles. *Trends in Plant Science*, **2017**, 22, 154-162	13.1	47
173	A donor-specific QTL, exhibiting allelic variation for leaf sheath hairiness in a nested association mapping population, is located on barley chromosome 4H. *PLoS ONE*, **2017**, 12, e0189446	3.7	7
172	Genetics of Na exclusion and salinity tolerance in Afghani durum wheat landraces. *BMC Plant Biology*, **2017**, 17, 209	5.3	25
171	DES-TOMATO: A Knowledge Exploration System Focused On Tomato Species. *Scientific Reports*, **2017**, 7, 5968	4.9	7
170	Genetic Components of Root Architecture Remodeling in Response to Salt Stress. *Plant Cell*, **2017**, 29, 3198-3213	11.6	80
169	Growth curve registration for evaluating salinity tolerance in barley. *Plant Methods*, **2017**, 13, 18	5.8	24
168	Evaluating physiological responses of plants to salinity stress. *Annals of Botany*, **2017**, 119, 1-11	4.1	538
167	Genetic Diversity and Population Structure of Two Tomato Species from the Galapagos Islands. *Frontiers in Plant Science*, **2017**, 8, 138	6.2	24
166	Identification of Putative Transmembrane Proteins Involved in Salinity Tolerance in by Integrating Physiological Data, RNAseq, and SNP Analyses. *Frontiers in Plant Science*, **2017**, 8, 1023	6.2	29

165	Variation in shoot tolerance mechanisms not related to ion toxicity in barley. *Functional Plant Biology*, **2017**, 44, 1194-1206	2.7	23
164	Small amounts of ammonium (NH$ _4^+ $) can increase growth of maize (Zea mays). *Journal of Plant Nutrition and Soil Science*, **2016**, 179, 717-725	2.3	15
163	Salinity tolerance loci revealed in rice using high-throughput non-invasive phenotyping. *Nature Communications*, **2016**, 7, 13342	17.4	134
162	Yield-related salinity tolerance traits identified in a nested association mapping (NAM) population of wild barley. *Scientific Reports*, **2016**, 6, 32586	4.9	79
161	Chemical Priming of Plants Against Multiple Abiotic Stresses: Mission Possible?. *Trends in Plant Science*, **2016**, 21, 329-340	13.1	316
160	Maize maintains growth in response to decreased nitrate supply through a highly dynamic and developmental stage-specific transcriptional response. *Plant Biotechnology Journal*, **2016**, 14, 342-53	11.6	15
159	Identification of a Stelar-Localized Transport Protein That Facilitates Root-to-Shoot Transfer of Chloride in Arabidopsis. *Plant Physiology*, **2016**, 170, 1014-29	6.6	66
158	Modulates Chloride (Cl) Efflux from Roots of. *Frontiers in Plant Science*, **2016**, 7, 2013	6.2	36
157	High-Throughput Non-destructive Phenotyping of Traits that Contribute to Salinity Tolerance in. *Frontiers in Plant Science*, **2016**, 7, 1414	6.2	76
156	SLAH1, a homologue of the slow type anion channel SLAC1, modulates shoot Cl- accumulation and salt tolerance in Arabidopsis thaliana. *Journal of Experimental Botany*, **2016**, 67, 4495-505	7	51
155	Using Phenomic Analysis of Photosynthetic Function for Abiotic Stress Response Gene Discovery. *The Arabidopsis Book*, **2016**, 14, e0185	3	30
154	Nitrogen assimilation system in maize is regulated by developmental and tissue-specific mechanisms. *Plant Molecular Biology*, **2016**, 92, 293-312	4.6	11
153	Different NaCl-induced calcium signatures in the Arabidopsis thaliana ecotypes Col-0 and C24. *PLoS ONE*, **2015**, 10, e0117564	3.7	15
152	Variation for N Uptake System in Maize: Genotypic Response to N Supply. *Frontiers in Plant Science*, **2015**, 6, 936	6.2	21
151	Genetic Approaches to Develop Salt Tolerant Germplasm. *Procedia Environmental Sciences*, **2015**, 29, 300-301		
150	Comparison of Leaf Sheath Transcriptome Profiles with Physiological Traits of Bread Wheat Cultivars under Salinity Stress. *PLoS ONE*, **2015**, 10, e0133322	3.7	26
149	A Model-Based Approach to Recovering the Structure of a Plant from Images. *Lecture Notes in Computer Science*, **2015**, 215-230	0.9	5
148	Salt resistant crop plants. *Current Opinion in Biotechnology*, **2014**, 26, 115-24	11.4	630

147	Expression of the Arabidopsis vacuolar H+-pyrophosphatase gene (AVP1) improves the shoot biomass of transgenic barley and increases grain yield in a saline field. *Plant Biotechnology Journal*, **2014**, 12, 378-86	11.6	110
146	The Na(+) transporter, TaHKT1;5-D, limits shoot Na(+) accumulation in bread wheat. *Plant Journal*, **2014**, 80, 516-26	6.9	117
145	Image-based phenotyping for non-destructive screening of different salinity tolerance traits in rice. *Rice*, **2014**, 7, 16	5.8	110
144	Localization of iron in rice grain using synchrotron X-ray fluorescence microscopy and high resolution secondary ion mass spectrometry. *Journal of Cereal Science*, **2014**, 59, 173-180	3.8	54
143	High-throughput phenotyping to detect drought tolerance QTL in wild barley introgression lines. *PLoS ONE*, **2014**, 9, e97047	3.7	173
142	Accounting for variation in designing greenhouse experiments with special reference to greenhouses containing plants on conveyor systems. *Plant Methods*, **2013**, 9, 5	5.8	44
141	The response of the maize nitrate transport system to nitrogen demand and supply across the lifecycle. *New Phytologist*, **2013**, 198, 82-94	9.8	85
140	HVP10 encoding V-PPase is a prime candidate for the barley HvNax3 sodium exclusion gene: evidence from fine mapping and expression analysis. *Planta*, **2013**, 237, 1111-22	4.7	31
139	Genetic variation in the root growth response of barley genotypes to salinity stress. *Functional Plant Biology*, **2013**, 40, 516-530	2.7	30
138	A novel protein kinase involved in Na(+) exclusion revealed from positional cloning. *Plant, Cell and Environment*, **2013**, 36, 553-68	8.4	60
137	It does not become the quality of a journal such as Food and Chemical Toxicology to publish such poor work. *Food and Chemical Toxicology*, **2013**, 53, 457	4.7	2
136	Sustainable Food Production **2013**, 986-1002		3
135	Applications of high-throughput plant phenotyping to study nutrient use efficiency. *Methods in Molecular Biology*, **2013**, 953, 277-90	1.4	3
134	Characterization of ion contents and metabolic responses to salt stress of different Arabidopsis AtHKT1;1 genotypes and their parental strains. *Molecular Plant*, **2013**, 6, 350-68	14.4	45
133	Identification of novel quantitative trait loci for days to ear emergence and flag leaf glaucousness in a bread wheat (Triticum aestivum L.) population adapted to southern Australian conditions. *Theoretical and Applied Genetics*, **2012**, 124, 697-711	6	67
132	Trait dissection of salinity tolerance with plant phenomics. *Methods in Molecular Biology*, **2012**, 913, 399-413	1.4	19
131	Fluorescence-activated cell sorting for analysis of cell type-specific responses to salinity stress in Arabidopsis and rice. *Methods in Molecular Biology*, **2012**, 913, 265-76	1.4	15
130	Wheat grain yield on saline soils is improved by an ancestral Na+ transporter gene. *Nature Biotechnology*, **2012**, 30, 360-4	44.5	515

129	Quantifying the effect of soil compaction on three varieties of wheat (Triticum aestivum L.) using X-ray Micro Computed Tomography (CT). *Plant and Soil*, **2012**, 353, 195-208	4.2	53
128	Rice DUR3 mediates high-affinity urea transport and plays an effective role in improvement of urea acquisition and utilization when expressed in Arabidopsis. *New Phytologist*, **2012**, 193, 432-44	9.8	73
127	A two-staged model of Na+ exclusion in rice explained by 3D modeling of HKT transporters and alternative splicing. *PLoS ONE*, **2012**, 7, e39865	3.7	134
126	High-throughput phenotyping of plant shoots. *Methods in Molecular Biology*, **2012**, 918, 9-20	1.4	27
125	Structural and functional analyses of PpENA1 provide insights into cation binding by type IID P-type ATPases in lower plants and fungi. *Biochimica Et Biophysica Acta - Biomembranes*, **2011**, 1808, 1483-92	3.8	6
124	Phenomics--technologies to relieve the phenotyping bottleneck. *Trends in Plant Science*, **2011**, 16, 635-44	3.1	987
123	Investigation of a His-rich arabinogalactan-protein for micronutrient biofortification of cereal grain. *Physiologia Plantarum*, **2011**, 143, 271-86	4.6	4
122	Salinity tolerance and Na+ exclusion in wheat: variability, genetics, mapping populations and QTL analysis. *Czech Journal of Genetics and Plant Breeding*, **2011**, 47, S85-S93	1.4	12
121	Constitutive overexpression of the OsNAS gene family reveals single-gene strategies for effective iron- and zinc-biofortification of rice endosperm. *PLoS ONE*, **2011**, 6, e24476	3.7	260
120	Rice plants expressing the moss sodium pumping ATPase PpENA1 maintain greater biomass production under salt stress. *Plant Biotechnology Journal*, **2011**, 9, 838-47	11.6	29
119	Assessing the role of root plasma membrane and tonoplast Na+/H+ exchangers in salinity tolerance in wheat: in planta quantification methods. *Plant, Cell and Environment*, **2011**, 34, 947-961	8.4	126
118	Genetic analysis of abiotic stress tolerance in crops. *Current Opinion in Plant Biology*, **2011**, 14, 232-9	9.9	187
117	Calcium inhibits dihydropyridine-stimulated increases in opening and unitary conductance of a plant Ca□+ channel. *Journal of Membrane Biology*, **2011**, 240, 13-20	2.3	3
116	Accurate inference of shoot biomass from high-throughput images of cereal plants. *Plant Methods*, **2011**, 7, 2	5.8	194
115	Abiotic Stress and Metabolomics **2011**, 61-85		9
114	Root-specific transcript profiling of contrasting rice genotypes in response to salinity stress. *Molecular Plant*, **2011**, 4, 25-41	14.4	90
113	A SOS3 homologue maps to HvNax4, a barley locus controlling an environmentally sensitive Na+ exclusion trait. *Journal of Experimental Botany*, **2011**, 62, 1201-16	7	54
112	Contrast in chloride exclusion between two grapevine genotypes and its variation in their hybrid progeny. *Journal of Experimental Botany*, **2011**, 62, 989-99	7	48

111	AtHKT1;1 mediates nernstian sodium channel transport properties in Arabidopsis root stelar cells. *PLoS ONE*, **2011**, 6, e24725	3.7	54
110	Variation in salinity tolerance and shoot sodium accumulation in Arabidopsis ecotypes linked to differences in the natural expression levels of transporters involved in sodium transport. *Plant, Cell and Environment*, **2010**, 33, 793-804	8.4	84
109	Type-B response regulators ARR1 and ARR12 regulate expression of AtHKT1;1 and accumulation of sodium in Arabidopsis shoots. *Plant Journal*, **2010**, 64, 753-63	6.9	106
108	Cl - uptake, transport and accumulation in grapevine rootstocks of differing capacity for Cl - -exclusion. *Functional Plant Biology*, **2010**, 37, 665	2.7	45
107	Wide genetic diversity of salinity tolerance, sodium exclusion and growth in wild emmer wheat, Triticum dicoccoides. *Breeding Science*, **2010**, 60, 426-435	2	22
106	Cell type-specific expression of sodium transporters improves salinity tolerance of rice. *GM Crops*, **2010**, 1, 273-5		6
105	High-throughput shoot imaging to study drought responses. *Journal of Experimental Botany*, **2010**, 61, 3519-28	7	232
104	Breeding technologies to increase crop production in a changing world. *Science*, **2010**, 327, 818-22	33.3	1426
103	Sodium exclusion QTL associated with improved seedling growth in bread wheat under salinity stress. *Theoretical and Applied Genetics*, **2010**, 121, 877-94	6	108
102	HvNax3--a locus controlling shoot sodium exclusion derived from wild barley (Hordeum vulgare ssp. spontaneum). *Functional and Integrative Genomics*, **2010**, 10, 277-91	3.8	111
101	Calcium requirement of wheat in saline and non-saline conditions. *Plant and Soil*, **2010**, 327, 331-345	4.2	30
100	A water-centred framework to assess the effects of salinity on the growth and yield of wheat and barley. *Plant and Soil*, **2010**, 336, 377-389	4.2	73
99	Improved salinity tolerance of rice through cell type-specific expression of AtHKT1;1. *PLoS ONE*, **2010**, 5, e12571	3.7	106
98	Dichotomy in the NRT gene families of dicots and grass species. *PLoS ONE*, **2010**, 5, e15289	3.7	101
97	Shoot Na+ exclusion and increased salinity tolerance engineered by cell type-specific alteration of Na+ transport in Arabidopsis. *Plant Cell*, **2009**, 21, 2163-78	11.6	387
96	Quantifying the three main components of salinity tolerance in cereals. *Plant, Cell and Environment*, **2009**, 32, 237-49	8.4	307
95	Arbuscular mycorrhizal inhibition of growth in barley cannot be attributed to extent of colonization, fungal phosphorus uptake or effects on expression of plant phosphate transporter genes. *New Phytologist*, **2009**, 181, 938-949	9.8	156
94	Metabolic responses to salt stress of barley (Hordeum vulgare L.) cultivars, Sahara and Clipper, which differ in salinity tolerance. *Journal of Experimental Botany*, **2009**, 60, 4089-103	7	318

93	Salinity tolerance and sodium exclusion in genus Triticum. *Breeding Science*, **2009**, 59, 671-678	2	34
92	Investigating glutamate receptor-like gene co-expression in Arabidopsis thaliana. *Plant, Cell and Environment*, **2008**, 31, 861-71	8.4	95
91	NaCl-induced changes in cytosolic free Ca2+ in Arabidopsis thaliana are heterogeneous and modified by external ionic composition. *Plant, Cell and Environment*, **2008**, 31, 1063-73	8.4	116
90	Different mechanisms of adaptation to cyclic water stress in two South Australian bread wheat cultivars. *Journal of Experimental Botany*, **2008**, 59, 3327-46	7	224
89	AGRICULTURE: Organic and GM--Why Not?. *Science*, **2008**, 322, 1190-1191	33.3	1
88	Mechanisms of salinity tolerance. *Annual Review of Plant Biology*, **2008**, 59, 651-81	30.7	7075
87	Boron-toxicity tolerance in barley arising from efflux transporter amplification. *Science*, **2007**, 318, 1446-9	33.3	341
86	The Na+ transporter AtHKT1;1 controls retrieval of Na+ from the xylem in Arabidopsis. *Plant, Cell and Environment*, **2007**, 30, 497-507	8.4	340
85	Reassessment of tissue Na(+) concentration as a criterion for salinity tolerance in bread wheat. *Plant, Cell and Environment*, **2007**, 30, 1486-98	8.4	197
84	The impact of constitutive heterologous expression of a moss Na+ transporter on the metabolomes of rice and barley. *Metabolomics*, **2007**, 3, 307-317	4.7	53
83	Root plasma membrane transporters controlling K+/Na+ homeostasis in salt-stressed barley. *Plant Physiology*, **2007**, 145, 1714-25	6.6	357
82	HKT1;5-like cation transporters linked to Na+ exclusion loci in wheat, Nax2 and Kna1. *Plant Physiology*, **2007**, 143, 1918-28	6.6	297
81	Salinity tolerance of Arabidopsis: a good model for cereals?. *Trends in Plant Science*, **2007**, 12, 534-40	13.1	103
80	Exclusion of Na+ via sodium ATPase (PpENA1) ensures normal growth of Physcomitrella patens under moderate salt stress. *Plant Physiology*, **2007**, 144, 1786-96	6.6	60
79	Activation Tagging Systems in Rice **2007**, 333-353		3
78	Cation currents in protoplasts from the roots of a Na+ hyperaccumulating mutant of Capsicum annuum. *Journal of Experimental Botany*, **2006**, 57, 1171-80	7	8
77	Evidence that L-glutamate can act as an exogenous signal to modulate root growth and branching in Arabidopsis thaliana. *Plant and Cell Physiology*, **2006**, 47, 1045-57	4.9	197
76	Nomenclature for HKT transporters, key determinants of plant salinity tolerance. *Trends in Plant Science*, **2006**, 11, 372-4	13.1	254

75	Simultaneous flux and current measurement from single plant protoplasts reveals a strong link between K+ fluxes and current, but no link between Ca2+ fluxes and current. *Plant Journal*, **2006**, 46, 134-44	6.9	18
74	Control of sodium transport in durum wheat. *Plant Physiology*, **2005**, 137, 807-18	6.6	237
73	Abiotic stress tolerance in grasses. From model plants to crop plants. *Plant Physiology*, **2005**, 137, 791-3	6.6	169
72	Spatial control of transgene expression in rice (Oryza sativa L.) using the GAL4 enhancer trapping system. *Plant Journal*, **2005**, 41, 779-89	6.9	78
71	The regulation of anion loading to the maize root xylem. *Plant Physiology*, **2005**, 137, 819-28	6.6	78
70	Glutamate activates cation currents in the plasma membrane of Arabidopsis root cells. *Planta*, **2004**, 219, 167-75	4.7	91
69	Sodium influx and accumulation in Arabidopsis. *Plant Physiology*, **2003**, 133, 307-18	6.6	222
68	Functional analysis of AtHKT1 in Arabidopsis shows that Na(+) recirculation by the phloem is crucial for salt tolerance. *EMBO Journal*, **2003**, 22, 2004-14	13	425
67	Free oxygen radicals regulate plasma membrane Ca2+- and K+-permeable channels in plant root cells. *Journal of Cell Science*, **2003**, 116, 81-8	5.3	291
66	Na+ tolerance and Na+ transport in higher plants. *Annals of Botany*, **2003**, 91, 503-27	4.1	2050
65	Arabidopsis thaliana root non-selective cation channels mediate calcium uptake and are involved in growth. *Plant Journal*, **2002**, 32, 799-808	6.9	159
64	Nonselective cation channels in plants. *Annual Review of Plant Biology*, **2002**, 53, 67-107	30.7	314
63	Sodium fluxes through nonselective cation channels in the plasma membrane of protoplasts from Arabidopsis roots. *Plant Physiology*, **2002**, 128, 379-87	6.6	277
62	Depolarizing the GM debate. *New Phytologist*, **2001**, 149, 9-12	9.8	10
61	Partitioning of nutrient transport processes in roots. *Journal of Experimental Botany*, **2001**, 52, 445-57	7	74
60	The identity of plant glutamate receptors. *Science*, **2001**, 292, 1486-7	33.3	155
59	Partitioning of nutrient transport processes in roots. *Journal of Experimental Botany*, **2001**, 52, 445-457	7	35
58	Hyperpolarisation-activated calcium currents found only in cells from the elongation zone of Arabidopsis thaliana roots. *Plant Journal*, **2000**, 21, 225-9	6.9	127

57	Cell-type-specific calcium responses to drought, salt and cold in the Arabidopsis root. *Plant Journal*, **2000**, 23, 267-78	6.9	294
56	Cation permeability and selectivity of a root plasma membrane calcium channel. *Journal of Membrane Biology*, **2000**, 174, 71-83	2.3	25
55	A weakly voltage-dependent, nonselective cation channel mediates toxic sodium influx in wheat. *Plant Physiology*, **2000**, 122, 823-34	6.6	183
54	Hand over your clones or lose your reputation. *Nature*, **1999**, 398, 657	50.4	
53	Seeking clarity in the debate over the safety of GM foods. *Nature*, **1999**, 402, 575; author reply 575-6	50.4	5
52	The control of long-distance K+ transport by ABA. *Trends in Plant Science*, **1999**, 4, 5-6	13.1	9
51	Patch-clamp measurements of capacitance to study exocytosis and endocytosis. *Trends in Plant Science*, **1998**, 3, 110-114	13.1	13
50	Permeation of Ca2+and monovalent cations through an outwardly rectifying channel in maize root stelar cells. *Journal of Experimental Botany*, **1997**, 48, 839-846	7	55
49	Ca2+-independent and Ca2+/GTP-binding protein-controlled exocytosis in a plant cell. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 6565-70	11.5	56
48	Characterization of the high-affinity verapamil binding site in a plant plasma membrane Ca2+-selective channel. *Journal of Membrane Biology*, **1997**, 157, 139-45	2.3	23
47	Voltage Control of Calcium Influx in Intact Cells. *Functional Plant Biology*, **1997**, 24, 805	2.7	6
46	Compatible solutes and salt tolerance: Misuse of transgenic tobacco. *Trends in Plant Science*, **1996**, 1, 294-295	13.1	9
45	The mechanism of zinc uptake in plants. *Planta*, **1996**, 198, 39	4.7	51
44	Inward and outward K+-selective currents in the plasma membrane of protoplasts from maize root cortex and stele. *Plant Journal*, **1995**, 8, 811-825	6.9	89
43	Transmembrane calcium fluxes during Al stress. *Plant and Soil*, **1995**, 171, 125-130	4.2	30
42	Characterization of a voltage-dependent Ca2+-selective channel from wheat roots. *Planta*, **1995**, 195, 478	4.7	71
41	Calcium/aluminium interactions in the cell wall and plasma membrane of Chara. *Planta*, **1995**, 195, 362	4.7	30
40	Role of biosurfactant and ion channel-forming activities of syringomycin in transmembrane ion flux: a model for the mechanism of action in the plant-pathogen interaction. *Molecular Plant-Microbe Interactions*, **1995**, 8, 610-20	3.6	106

39	Using planar lipid-bilayers to study plant ion channels. *Physiologia Plantarum*, **1994**, 91, 770-774	4.6	15
38	The development of mycorrhizal infection in cucumber: effects of P supply on root growth, formation of entry points and growth of infection units. *New Phytologist*, **1994**, 127, 507-514	9.8	65
37	Control of exocytosis in a plant secretory cell by cytosolic Ca2+ and hydrostatic pressure. *Annals of the New York Academy of Sciences*, **1994**, 710, 254-60	6.5	
36	Carbohydrate-reactive, pore-forming outer membrane proteins of Aeromonas hydrophila. *Infection and Immunity*, **1994**, 62, 4054-8	3.7	18
35	Plasma membrane Ca2+ channels in roots of higher plants and their role in aluminium toxicity. *Plant and Soil*, **1993**, 155-156, 119-122	4.2	17
34	The control of boron accumulation by two genotypes of wheat. *Plant and Soil*, **1993**, 155-156, 305-308	4.2	5
33	Effects of salinity and turgor on calcium influx in Chara. *Plant, Cell and Environment*, **1993**, 16, 547-554	8.4	14
32	Rapid pressure driven exocytosis-endocytosis cycle in a single plant cell. Capacitance measurements in aleurone protoplasts. *FEBS Letters*, **1993**, 333, 283-6	3.8	33
31	Plasma membrane Ca2+ channels in roots of higher plants and their role in aluminium toxicity **1993**, 125-128		2
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29	Potassium channels from the plasma membrane of rye roots characterized following incorporation into planar lipid bilayers. *Planta*, **1992**, 186, 188-202	4.7	37
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