

Zhong-Hua Chen

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.

146
papers

5,720
citations

41
h-index

72
g-index

167
ext. papers

7,434
ext. citations

5.9
avg. IF

5.84
L-index

#	Paper	IF	Citations
146	Potassium transporters and their evolution in plants under salt stress 2022 , 63-83		1
145	Proto Kranz-like leaf traits and cellular ionic regulation are associated with salinity tolerance in a halophytic wild rice. <i>Stress Biology</i> , 2022 , 2, 1		0
144	Molecular evolution and functional modification of plant miRNAs with CRISPR.. <i>Trends in Plant Science</i> , 2022 ,	13.1	2
143	Evolutionary Significance of NHX Family and NHX1 in Salinity Stress Adaptation in the Genus .. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1
142	A novel cover material improves cooling energy and fertigation efficiency for glasshouse eggplant production. <i>Energy</i> , 2022 , 123871	7.9	1
141	The genome and gene editing system of sea barleygrass provide a novel platform for cereal domestication and stress tolerance studies. <i>Plant Communications</i> , 2022 , 100333	9	0
140	Stress signaling convergence and nutrient crosstalk determine zinc-mediated amelioration against cadmium toxicity in rice.. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 230, 113128	7	0
139	Adopting Life Cycle Assessment for Various Greenhouse Typologies in Multiple Cropping Environment in Australia. <i>Sustainable Production, Life Cycle Engineering and Management</i> , 2021 , 347-360 ^{0.4}		0
138	Process Modelling for an Efficient and Dynamic Energy Consumption for Fresh Produce in Protected Cropping. <i>Sustainable Production, Life Cycle Engineering and Management</i> , 2021 , 361-370	0.4	
137	Molecular response and evolution of plant anion transport systems to abiotic stress. <i>Plant Molecular Biology</i> , 2021 , 1	4.6	0
136	Molecular Evolution of Calcium Signaling and Transport in Plant Adaptation to Abiotic Stress. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
135	To exclude or to accumulate? Revealing the role of the sodium HKT1;5 transporter in plant adaptive responses to varying soil salinity. <i>Plant Physiology and Biochemistry</i> , 2021 , 169, 333-342	5.4	4
134	Highly Conserved Evolution of Aquaporin PIPs and TIPs Confers Their Crucial Contribution to Flowering Process in Plants.. <i>Frontiers in Plant Science</i> , 2021 , 12, 761713	6.2	2
133	Sodium sequestration confers salinity tolerance in an ancestral wild rice. <i>Physiologia Plantarum</i> , 2021 , 172, 1594-1608	4.6	6
132	Molecular Interaction and Evolution of Jasmonate Signaling With Transport and Detoxification of Heavy Metals and Metalloids in Plants. <i>Frontiers in Plant Science</i> , 2021 , 12, 665842	6.2	6
131	Light-altering cover materials and sustainable greenhouse production of vegetables: a review. <i>Plant Growth Regulation</i> , 2021 , 95, 1-17	3.2	8
130	Molecular mechanisms of salinity tolerance in rice. <i>Crop Journal</i> , 2021 , 9, 506-520	4.6	19

129	A β -ketoacyl carrier protein reductase confers heat tolerance via the regulation of fatty acid biosynthesis and stress signaling in rice. <i>New Phytologist</i> , 2021 , 232, 655-672	9.8	5
128	Revealing the Role of the Calcineurin B-Like Protein-Interacting Protein Kinase 9 (CIPK9) in Rice Adaptive Responses to Salinity, Osmotic Stress, and K Deficiency. <i>Plants</i> , 2021 , 10,	4.5	1
127	An ATP binding cassette transporter HvABC25 confers aluminum detoxification in wild barley. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123371	12.8	17
126	Metalloid hazards: From plant molecular evolution to mitigation strategies. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124495	12.8	11
125	Evolution of rapid blue-light response linked to explosive diversification of ferns in angiosperm forests. <i>New Phytologist</i> , 2021 , 230, 1201-1213	9.8	14
124	Molecular evolution and genome-wide analysis of the SBP-box family in cucumber (<i>Cucumis sativas</i>). <i>Plant Growth Regulation</i> , 2021 , 93, 175-187	3.2	1
123	A comparative analysis of stomatal traits and photosynthetic responses in closely related halophytic and glycophytic species under saline conditions. <i>Environmental and Experimental Botany</i> , 2021 , 181, 104300	5.9	14
122	Triangulation of methods using insect cell lines to investigate insecticidal mode-of-action. <i>Pest Management Science</i> , 2021 , 77, 492-501	4.6	0
121	Smart glass impacts stomatal sensitivity of greenhouse Capsicum through altered light. <i>Journal of Experimental Botany</i> , 2021 , 72, 3235-3248	7	3
120	Salinity Effects on Guard Cell Proteome in. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	7
119	Multi-Omics Analysis Reveals the Mechanism Underlying the Edaphic Adaptation in Wild Barley at Evolution Slope (Tabigha). <i>Advanced Science</i> , 2021 , 8, e2101374	13.6	3
118	Energy Minimisation in a Protected Cropping Facility Using Multi-Temperature Acquisition Points and Control of Ventilation Settings. <i>Energies</i> , 2021 , 14, 6014	3.1	0
117	Prior exposure of Arabidopsis seedlings to mechanical stress heightens jasmonic acid-mediated defense against necrotrophic pathogens. <i>BMC Plant Biology</i> , 2020 , 20, 548	5.3	4
116	Leaf mesophyll K ⁺ and Cl ⁻ fluxes and reactive oxygen species production predict rice salt tolerance at reproductive stage in greenhouse and field conditions. <i>Plant Growth Regulation</i> , 2020 , 92, 53-64	3.2	12
115	Does Molecular and Structural Evolution Shape the Speedy Grass Stomata?. <i>Frontiers in Plant Science</i> , 2020 , 11, 333	6.2	4
114	Zinc alleviates cadmium toxicity by modulating photosynthesis, ROS homeostasis, and cation flux kinetics in rice. <i>Environmental Pollution</i> , 2020 , 265, 114979	9.3	21
113	Calmodulin HvCaM1 Negatively Regulates Salt Tolerance via Modulation of HvHKT1s and HvCAMTA4. <i>Plant Physiology</i> , 2020 , 183, 1650-1662	6.6	21
112	Melatonin improves rice salinity stress tolerance by NADPH oxidase-dependent control of the plasma membrane K transporters and K homeostasis. <i>Plant, Cell and Environment</i> , 2020 , 43, 2591-2605	8.4	37

111	The Barley Gene Positively Regulates the Tolerance to Combined Drought and Salinity Stress in Tibetan Wild Barley. <i>Cells</i> , 2020 , 9,	7.9	7
110	HvHOX9, a novel homeobox leucine zipper transcription factor, positively regulates aluminum tolerance in Tibetan wild barley. <i>Journal of Experimental Botany</i> , 2020 , 71, 6057-6073	7	9
109	GORK Channel: A Master Switch of Plant Metabolism?. <i>Trends in Plant Science</i> , 2020 , 25, 434-445	13.1	43
108	Identification of new QTL for salt tolerance from rice variety Pokkali. <i>Journal of Agronomy and Crop Science</i> , 2020 , 206, 202-213	3.9	20
107	HvAKT2 and HvHAK1 confer drought tolerance in barley through enhanced leaf mesophyll H homoeostasis. <i>Plant Biotechnology Journal</i> , 2020 , 18, 1683-1696	11.6	27
106	Distinct Evolutionary Origins of Intron Retention Splicing Events in Antiporter Transcripts Relate to Sequence Specific Distinctions in Species. <i>Frontiers in Plant Science</i> , 2020 , 11, 267	6.2	10
105	Stomatal traits as a determinant of superior salinity tolerance in wild barley. <i>Journal of Plant Physiology</i> , 2020 , 245, 153108	3.6	17
104	Cadmium-zinc cross-talk delineates toxicity tolerance in rice via differential genes expression and physiological / ultrastructural adjustments. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 190, 110076	7	20
103	Effect of high light on canopy-level photosynthesis and leaf mesophyll ion flux in tomato. <i>Planta</i> , 2020 , 252, 80	4.7	7
102	Evolution of Abscisic Acid Signaling for Stress Responses to Toxic Metals and Metalloids. <i>Frontiers in Plant Science</i> , 2020 , 11, 909	6.2	30
101	Overexpression of HvAKT1 improves drought tolerance in barley by regulating root ion homeostasis and ROS and NO signaling. <i>Journal of Experimental Botany</i> , 2020 , 71, 6587-6600	7	10
100	Changes in Expression Level of Alters Activity of Membrane Transporters Involved in K and Ca Acquisition and Homeostasis in Salinized Rice Roots. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
99	Identification of novel microRNAs for cold deacclimation in barley. <i>Plant Growth Regulation</i> , 2020 , 92, 389-400	3.2	1
98	Sustainable Protected Cropping: A Case Study of Seasonal Impacts on Greenhouse Energy Consumption during Capsicum Production. <i>Energies</i> , 2020 , 13, 4468	3.1	6
97	Origins and Stepwise Expansion of R2R3-MYB Transcription Factors for the Terrestrial Adaptation of Plants. <i>Frontiers in Plant Science</i> , 2020 , 11, 575360	6.2	4
96	Energy costs of salt tolerance in crop plants. <i>New Phytologist</i> , 2020 , 225, 1072-1090	9.8	144
95	The energy cost of the tonoplast futile sodium leak. <i>New Phytologist</i> , 2020 , 225, 1105-1110	9.8	54
94	Comparative life cycle assessment for conventional and organic coffee cultivation in Vietnam. <i>International Journal of Environmental Science and Technology</i> , 2020 , 17, 1307-1324	3.3	8

93	Back to the Wild: On a Quest for Donors Toward Salinity Tolerant Rice. <i>Frontiers in Plant Science</i> , 2020 , 11, 323	6.2	27
92	Sugar Beet () Guard Cells Responses to Salinity Stress: A Proteomic Analysis. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
91	Transient silencing of an expansin HvEXPA1 inhibits root cell elongation and reduces Al accumulation in root cell wall of Tibetan wild barley. <i>Environmental and Experimental Botany</i> , 2019 , 165, 120-128	5.9	9
90	Chloride transport at plant-soil Interface modulates barley cd tolerance. <i>Plant and Soil</i> , 2019 , 441, 409-421	4.1	7
89	Microhair on the adaxial leaf surface of salt secreting halophytic <i>Oryza coarctata</i> Roxb. show distinct morphotypes: Isolation for molecular and functional analysis. <i>Plant Science</i> , 2019 , 285, 248-257	5.3	9
88	Environmental Impact and Carbon Footprint Assessment of Taiwanese Agricultural Products: A Case Study on Taiwanese Dongshan Tea. <i>Energies</i> , 2019 , 12, 138	3.1	4
87	Response of Tibetan Wild Barley Genotypes to Drought Stress and Identification of Quantitative Trait Loci by Genome-Wide Association Analysis. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	7
86	Evolution of chloroplast retrograde signaling facilitates green plant adaptation to land. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 5015-5020	11.5	74
85	Resource allocation to growth or luxury consumption drives mycorrhizal responses. <i>Ecology Letters</i> , 2019 , 22, 1757-1766	10	13
84	Protected Cropping in Warm Climates: A Review of Humidity Control and Cooling Methods. <i>Energies</i> , 2019 , 12, 2737	3.1	23
83	Genetics and Genomics of Stomatal Traits for Improvement of Abiotic Stress Tolerance in Cereals. <i>Sustainable Development and Biodiversity</i> , 2019 , 1-20	2.1	1
82	Isolation of high purity guard cell protoplasts of <i>Arabidopsis thaliana</i> for omics research. <i>Plant Growth Regulation</i> , 2019 , 89, 37-47	3.2	2
81	Tissue-Specific Regulation of Na and K Transporters Explains Genotypic Differences in Salinity Stress Tolerance in Rice. <i>Frontiers in Plant Science</i> , 2019 , 10, 1361	6.2	22
80	Molecular Evolution and Interaction of Membrane Transport and Photoreception in Plants. <i>Frontiers in Genetics</i> , 2019 , 10, 956	4.5	11
79	The loss of RBOHD function modulates root adaptive responses to combined hypoxia and salinity stress in <i>Arabidopsis</i> . <i>Environmental and Experimental Botany</i> , 2019 , 158, 125-135	5.9	17
78	Leaf epidermis transcriptome reveals drought-Induced hormonal signaling for stomatal regulation in wild barley. <i>Plant Growth Regulation</i> , 2019 , 87, 39-54	3.2	16
77	Genomic adaptation to drought in wild barley is driven by edaphic natural selection at the Tabigha Evolution Slope. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5223-5228	11.5	35
76	Roles of Chloroplast Retrograde Signals and Ion Transport in Plant Drought Tolerance. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	12

75	Na ⁺ extrusion from the cytosol and tissue-specific Na ⁺ sequestration in roots confer differential salt stress tolerance between durum and bread wheat. <i>Journal of Experimental Botany</i> , 2018 , 69, 3987-4001	7.0	46
74	A Sodium Transporter HvHKT1;1 Confers Salt Tolerance in Barley via Regulating Tissue and Cell Ion Homeostasis. <i>Plant and Cell Physiology</i> , 2018 , 59, 1976-1989	4.9	43
73	Assembly and analysis of a qingke reference genome demonstrate its close genetic relation to modern cultivated barley. <i>Plant Biotechnology Journal</i> , 2018 , 16, 760-770	11.6	33
72	QTL Mapping Combined With Bulk Segregant Analysis Identify SNP Markers Linked to Leaf Shape Traits in Using SLAF Sequencing. <i>Frontiers in Genetics</i> , 2018 , 9, 615	4.5	15
71	Genotypic difference in the influence of aluminum and low pH on ion flux, rhizospheric pH and ATPase activity between Tibetan wild and cultivated barley. <i>Environmental and Experimental Botany</i> , 2018 , 156, 16-24	5.9	5
70	PpVIN2, an acid invertase gene family member, is sensitive to chilling temperature and affects sucrose metabolism in postharvest peach fruit. <i>Plant Growth Regulation</i> , 2018 , 86, 169-180	3.2	14
69	Genotypic differences in cadmium transport in developing barley grains. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 7009-7015	5.1	2
68	QTLs for stomatal and photosynthetic traits related to salinity tolerance in barley. <i>BMC Genomics</i> , 2017 , 18, 9	4.5	43
67	Evolutionary Conservation of ABA Signaling for Stomatal Closure. <i>Plant Physiology</i> , 2017 , 174, 732-747	6.6	100
66	Genotype-dependent effects of phosphorus supply on physiological and biochemical responses to Al-stress in cultivated and Tibetan wild barley. <i>Plant Growth Regulation</i> , 2017 , 82, 259-270	3.2	5
65	Halophytic NHXs confer salt tolerance by altering cytosolic and vacuolar K ⁺ and Na ⁺ in Arabidopsis root cell. <i>Plant Growth Regulation</i> , 2017 , 82, 333-351	3.2	28
64	Speedy Grass Stomata: Emerging Molecular and Evolutionary Features. <i>Molecular Plant</i> , 2017 , 10, 912-914	14.4	20
63	Hypoxia Sensing in Plants: On a Quest for Ion Channels as Putative Oxygen Sensors. <i>Plant and Cell Physiology</i> , 2017 , 58, 1126-1142	4.9	43
62	Molecular Evolution of Grass Stomata. <i>Trends in Plant Science</i> , 2017 , 22, 124-139	13.1	119
61	Molecular and Evolutionary Mechanisms of Cuticular Wax for Plant Drought Tolerance. <i>Frontiers in Plant Science</i> , 2017 , 8, 621	6.2	125
60	Expressing Arabidopsis thaliana V-ATPase subunit C in barley (<i>Hordeum vulgare</i>) improves plant performance under saline condition by enabling better osmotic adjustment. <i>Functional Plant Biology</i> , 2017 , 44, 1147-1159	2.7	15
59	A chloroplast retrograde signal, 3-phosphoadenosine 5-phosphate, acts as a secondary messenger in abscisic acid signaling in stomatal closure and germination. <i>ELife</i> , 2017 , 6,	8.9	90
58	Revealing the roles of GORK channels and NADPH oxidase in acclimation to hypoxia in Arabidopsis. <i>Journal of Experimental Botany</i> , 2017 , 68, 3191-3204	7	33

57	K ⁺ Uptake, H ⁺ -ATPase pumping activity and Ca ²⁺ efflux mechanism are involved in drought tolerance of barley. <i>Environmental and Experimental Botany</i> , 2016 , 129, 57-66	5.9	30
56	Tissue-specific root ion profiling reveals essential roles of the CAX and ACA calcium transport systems in response to hypoxia in Arabidopsis. <i>Journal of Experimental Botany</i> , 2016 , 67, 3747-62	7	42
55	Identification of Mild Freezing Shock Response Pathways in Barley Based on Transcriptome Profiling. <i>Frontiers in Plant Science</i> , 2016 , 7, 106	6.2	18
54	Genome-Wide Association Study Reveals a New QTL for Salinity Tolerance in Barley (<i>Hordeum vulgare</i> L.). <i>Frontiers in Plant Science</i> , 2016 , 7, 946	6.2	40
53	Nitrate reductase mutation alters potassium nutrition as well as nitric oxide-mediated control of guard cell ion channels in Arabidopsis. <i>New Phytologist</i> , 2016 , 209, 1456-69	9.8	70
52	Loss of nitrate reductases NIA1 and NIA2 impairs stomatal closure by altering genes of core ABA signaling components in Arabidopsis. <i>Plant Signaling and Behavior</i> , 2016 , 11, e1183088	2.5	16
51	Linking salinity stress tolerance with tissue-specific Na ⁽⁺⁾ sequestration in wheat roots. <i>Frontiers in Plant Science</i> , 2015 , 6, 71	6.2	65
50	Genetic diversity and QTL mapping of thermostability of limit dextrinase in barley. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 3778-83	5.7	11
49	Genetic Diversity of Individual Phenolic Acids in Barley and Their Correlation with Barley Malt Quality. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 7051-7	5.7	27
48	Morpho-physiological and micrographic characterization of maize hybrids under NaCl and Cd stress. <i>Plant Growth Regulation</i> , 2015 , 75, 115-122	3.2	28
47	Diversification and evolution of the SDG gene family in Brassica rapa after the whole genome triplication. <i>Scientific Reports</i> , 2015 , 5, 16851	4.9	7
46	DNA microarray revealed and RNAi plants confirmed key genes conferring low Cd accumulation in barley grains. <i>BMC Plant Biology</i> , 2015 , 15, 259	5.3	19
45	Identification of aluminium transport-related genes via genome-wide phenotypic screening of <i>Saccharomyces cerevisiae</i> . <i>Metallomics</i> , 2014 , 6, 1558-64	4.5	12
44	Genome-wide transcriptome and functional analysis of two contrasting genotypes reveals key genes for cadmium tolerance in barley. <i>BMC Genomics</i> , 2014 , 15, 611	4.5	77
43	Differences in physiological features associated with aluminum tolerance in Tibetan wild and cultivated barleys. <i>Plant Physiology and Biochemistry</i> , 2014 , 75, 36-44	5.4	12
42	Analysis of gas exchange, stomatal behaviour and micronutrients uncovers dynamic response and adaptation of tomato plants to monochromatic light treatments. <i>Plant Physiology and Biochemistry</i> , 2014 , 82, 105-15	5.4	31
41	Linking stomatal traits and expression of slow anion channel genes HvSLAH1 and HvSLAC1 with grain yield for increasing salinity tolerance in barley. <i>Frontiers in Plant Science</i> , 2014 , 5, 634	6.2	33
40	Chlorophyll and carbohydrate metabolism in developing silique and seed are prerequisite to seed oil content of Brassica napus L. <i>Botanical Studies</i> , 2014 , 55, 34	2.3	12

39	Transcriptome profiling reveals mosaic genomic origins of modern cultivated barley. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13403-8	11.5	53
38	Leaf mesophyll K ⁺ , H ⁺ and Ca ²⁺ fluxes are involved in drought-induced decrease in photosynthesis and stomatal closure in soybean. <i>Environmental and Experimental Botany</i> , 2014 , 98, 1-12	5.9	52
37	Effects of light irradiance on stomatal regulation and growth of tomato. <i>Environmental and Experimental Botany</i> , 2014 , 98, 65-73	5.9	37
36	Ionic responses and correlations between elements and metabolites under salt stress in wild and cultivated barley. <i>Plant and Cell Physiology</i> , 2013 , 54, 1976-88	4.9	94
35	Association of HvLDI with limit dextrinase activity and malt quality in barley. <i>Biotechnology Letters</i> , 2013 , 35, 639-45	3	7
34	Reduced tonoplast fast-activating and slow-activating channel activity is essential for conferring salinity tolerance in a facultative halophyte, quinoa. <i>Plant Physiology</i> , 2013 , 162, 940-52	6.6	119
33	The conceptual approach to quantitative modeling of guard cells. <i>Plant Signaling and Behavior</i> , 2013 , 8, e22747	2.5	2
32	Differential activity of plasma and vacuolar membrane transporters contributes to genotypic differences in salinity tolerance in a Halophyte Species, <i>Chenopodium quinoa</i> . <i>International Journal of Molecular Sciences</i> , 2013 , 14, 9267-85	6.3	78
31	Tissue metabolic responses to salt stress in wild and cultivated barley. <i>PLoS ONE</i> , 2013 , 8, e55431	3.7	152
30	PYR/PYL/RCAR abscisic acid receptors regulate K ⁺ and Cl ⁻ channels through reactive oxygen species-mediated activation of Ca ²⁺ channels at the plasma membrane of intact <i>Arabidopsis</i> guard cells. <i>Plant Physiology</i> , 2013 , 163, 566-77	6.6	65
29	Comparative proteomic analysis of aluminum tolerance in tibetan wild and cultivated barleys. <i>PLoS ONE</i> , 2013 , 8, e63428	3.7	26
28	Studying plant salt tolerance with the voltage clamp technique. <i>Methods in Molecular Biology</i> , 2012 , 913, 19-33	1.4	
27	Protocol: optimised electrophysiological analysis of intact guard cells from <i>Arabidopsis</i> . <i>Plant Methods</i> , 2012 , 8, 15	5.8	10
26	The trafficking protein SYP121 of <i>Arabidopsis</i> connects programmed stomatal closure and K ⁺ channel activity with vegetative growth. <i>Plant Journal</i> , 2012 , 69, 241-51	6.9	97
25	Systems dynamic modeling of the stomatal guard cell predicts emergent behaviors in transport, signaling, and volume control. <i>Plant Physiology</i> , 2012 , 159, 1235-51	6.6	120
24	Tibet is one of the centers of domestication of cultivated barley. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16969-73	11.5	173
23	OnGuard, a computational platform for quantitative kinetic modeling of guard cell physiology. <i>Plant Physiology</i> , 2012 , 159, 1026-42	6.6	125
22	Genetic variation of HvCBF genes and their association with salinity tolerance in Tibetan annual wild barley. <i>PLoS ONE</i> , 2011 , 6, e22938	3.7	70

21	A bicistronic, Ubiquitin-10 promoter-based vector cassette for transient transformation and functional analysis of membrane transport demonstrates the utility of quantitative voltage clamp studies on intact Arabidopsis root epidermis. <i>Plant, Cell and Environment</i> , 2011 , 34, 554-64	8.4	11
20	A fast brassinolide-regulated response pathway in the plasma membrane of Arabidopsis thaliana. <i>Plant Journal</i> , 2011 , 66, 528-40	6.9	76
19	Dynamic regulation of guard cell anion channels by cytosolic free Ca ²⁺ concentration and protein phosphorylation. <i>Plant Journal</i> , 2010 , 61, 816-25	6.9	99
18	Xylem ionic relations and salinity tolerance in barley. <i>Plant Journal</i> , 2010 , 61, 839-53	6.9	159
17	A novel motif essential for SNARE interaction with the K(+) channel KC1 and channel gating in Arabidopsis. <i>Plant Cell</i> , 2010 , 22, 3076-92	11.6	85
16	A tripartite SNARE-K ⁺ channel complex mediates in channel-dependent K ⁺ nutrition in Arabidopsis. <i>Plant Cell</i> , 2009 , 21, 2859-77	11.6	135
15	Combining ability of barley flour pasting properties. <i>Journal of Cereal Science</i> , 2008 , 48, 789-793	3.8	12
14	Na-K transport in roots under salt stress. <i>Plant Signaling and Behavior</i> , 2008 , 3, 401-3	2.5	45
13	Combining Ability of Salinity Tolerance on the Basis of NaCl-Induced K ⁺ Flux from Roots of Barley. <i>Crop Science</i> , 2008 , 48, 1382-1388	2.4	43
12	Potassium and sodium relations in salinised barley tissues as a basis of differential salt tolerance. <i>Functional Plant Biology</i> , 2007 , 34, 150-162	2.7	222
11	Compatible solute accumulation and stress-mitigating effects in barley genotypes contrasting in their salt tolerance. <i>Journal of Experimental Botany</i> , 2007 , 58, 4245-55	7	284
10	Root plasma membrane transporters controlling K ⁺ /Na ⁺ homeostasis in salt-stressed barley. <i>Plant Physiology</i> , 2007 , 145, 1714-25	6.6	357
9	Oscillations in plant membrane transport: model predictions, experimental validation, and physiological implications. <i>Journal of Experimental Botany</i> , 2006 , 57, 171-84	7	73
8	Physiological and cytological response of salt-tolerant and non-tolerant barley to salinity during germination and early growth. <i>Australian Journal of Experimental Agriculture</i> , 2006 , 46, 555		35
7	Zinc alleviates growth inhibition and oxidative stress caused by cadmium in rice. <i>Journal of Plant Nutrition and Soil Science</i> , 2005 , 168, 255-261	2.3	95
6	Screening plants for salt tolerance by measuring K ⁺ flux: a case study for barley. <i>Plant, Cell and Environment</i> , 2005 , 28, 1230-1246	8.4	354
5	Heterosis in CMS hybrids of cotton for photosynthetic and chlorophyll fluorescence parameters. <i>Euphytica</i> , 2005 , 144, 353-361	2.1	13
4	Precise exogenous insertion and sequence replacements in poplar by simultaneous HDR overexpression and NHEJ suppression using CRISPR-Cas9		2

3	Smart Film Impacts Stomatal Sensitivity of Greenhouse Capsicum Through Altered Light	1
2	Ion Transport at the Plant Plasma Membrane1-16	10
1	Membrane Transport in Guard Cells	2