

Lana Shabala

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130
papers

5,076
citations

42
h-index

65
g-index

136
ext. papers

6,329
ext. citations

5.8
avg, IF

5.82
L-index

#	Paper	IF	Citations
130	Extracellular Ca ²⁺ ameliorates NaCl-induced K ⁺ loss from Arabidopsis root and leaf cells by controlling plasma membrane K ⁺ -permeable channels. <i>Plant Physiology</i> , 2006 , 141, 1653-65	6.6	361
129	Salinity-induced ion flux patterns from the excised roots of Arabidopsis sos mutants. <i>Planta</i> , 2005 , 222, 1041-50	4.7	200
128	Effect of calcium on root development and root ion fluxes in salinised barley seedlings. <i>Functional Plant Biology</i> , 2003 , 30, 507-514	2.7	154
127	Oxidative stress protection and stomatal patterning as components of salinity tolerance mechanism in quinoa (<i>Chenopodium quinoa</i>). <i>Physiologia Plantarum</i> , 2012 , 146, 26-38	4.6	145
126	Cell-Type-Specific H ⁺ -ATPase Activity in Root Tissues Enables K ⁺ Retention and Mediates Acclimation of Barley (<i>Hordeum vulgare</i>) to Salinity Stress. <i>Plant Physiology</i> , 2016 , 172, 2445-2458	6.6	99
125	K ⁺ retention in leaf mesophyll, an overlooked component of salinity tolerance mechanism: a case study for barley. <i>Journal of Integrative Plant Biology</i> , 2015 , 57, 171-85	8.3	98
124	Ion transport and osmotic adjustment in <i>Escherichia coli</i> in response to ionic and non-ionic osmotica. <i>Environmental Microbiology</i> , 2009 , 11, 137-48	5.2	97
123	Hydroxyl radical scavenging by cerium oxide nanoparticles improves Arabidopsis salinity tolerance by enhancing leaf mesophyll potassium retention. <i>Environmental Science: Nano</i> , 2018 , 5, 1567-1583	7.1	95
122	Salinity-induced calcium signaling and root adaptation in Arabidopsis require the calcium regulatory protein annexin1. <i>Plant Physiology</i> , 2013 , 163, 253-62	6.6	93
121	The Venus Flytrap <i>Dionaea muscipula</i> Counts Prey-Induced Action Potentials to Induce Sodium Uptake. <i>Current Biology</i> , 2016 , 26, 286-95	6.3	92
120	Annexin 1 regulates the H ₂ O ₂ -induced calcium signature in Arabidopsis thaliana roots. <i>Plant Journal</i> , 2014 , 77, 136-45	6.9	89
119	Kinetics of xylem loading, membrane potential maintenance, and sensitivity of K ⁽⁺⁾ -permeable channels to reactive oxygen species: physiological traits that differentiate salinity tolerance between pea and barley. <i>Plant, Cell and Environment</i> , 2014 , 37, 589-600	8.4	88
118	Ability of leaf mesophyll to retain potassium correlates with salinity tolerance in wheat and barley. <i>Physiologia Plantarum</i> , 2013 , 149, 515-27	4.6	88
117	Non-invasive microelectrode ion flux measurements to study adaptive responses of microorganisms to the environment. <i>FEMS Microbiology Reviews</i> , 2006 , 30, 472-86	15.1	88
116	Difference in root K ⁺ retention ability and reduced sensitivity of K ⁺ -permeable channels to reactive oxygen species confer differential salt tolerance in three Brassica species. <i>Journal of Experimental Botany</i> , 2016 , 67, 4611-25	7	84
115	Membrane transporters mediating root signalling and adaptive responses to oxygen deprivation and soil flooding. <i>Plant, Cell and Environment</i> , 2014 , 37, 2216-33	8.4	84
114	Cyclopropane fatty acids improve <i>Escherichia coli</i> survival in acidified minimal media by reducing membrane permeability to H ⁺ and enhanced ability to extrude H ⁺ . <i>Research in Microbiology</i> , 2008 , 159, 458-61	4	79

113	Effect of divalent cations on ion fluxes and leaf photochemistry in salinized barley leaves. <i>Journal of Experimental Botany</i> , 2005 , 56, 1369-78	7	79
112	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
111	Ion transport and osmotic adjustment in plants and bacteria. <i>Biomolecular Concepts</i> , 2011 , 2, 407-19	3.7	76
110	Transcriptional stimulation of rate-limiting components of the autophagic pathway improves plant fitness. <i>Journal of Experimental Botany</i> , 2018 , 69, 1415-1432	7	73
109	Oscillations in plant membrane transport: model predictions, experimental validation, and physiological implications. <i>Journal of Experimental Botany</i> , 2006 , 57, 171-84	7	73
108	Salinity-induced accumulation of organic osmolytes in barley and wheat leaves correlates with increased oxidative stress tolerance: in planta evidence for cross-tolerance. <i>Plant Physiology and Biochemistry</i> , 2014 , 83, 32-9	5.4	72
107	Calcium sensor kinase activates potassium uptake systems in gland cells of Venus flytraps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7309-14	11.5	72
106	Na ^x loci affect SOS1-like Na ⁺ /H ⁺ exchanger expression and activity in wheat. <i>Journal of Experimental Botany</i> , 2016 , 67, 835-44	7	70
105	Linking salinity stress tolerance with tissue-specific Na ⁽⁺⁾ sequestration in wheat roots. <i>Frontiers in Plant Science</i> , 2015 , 6, 71	6.2	65
104	Barley responses to combined waterlogging and salinity stress: separating effects of oxygen deprivation and elemental toxicity. <i>Frontiers in Plant Science</i> , 2013 , 4, 313	6.2	64
103	Physiological and molecular mechanisms mediating xylem Na loading in barley in the context of salinity stress tolerance. <i>Plant, Cell and Environment</i> , 2017 , 40, 1009-1020	8.4	59
102	Rutin, a flavonoid with antioxidant activity, improves plant salinity tolerance by regulating K retention and Na exclusion from leaf mesophyll in quinoa and broad beans. <i>Functional Plant Biology</i> , 2015 , 43, 75-86	2.7	56
101	Effect of secondary metabolites associated with anaerobic soil conditions on ion fluxes and electrophysiology in barley roots. <i>Plant Physiology</i> , 2007 , 145, 266-76	6.6	55
100	Acid and NaCl limits to growth of <i>Listeria monocytogenes</i> and influence of sequence of inimical acid and NaCl levels on inactivation kinetics. <i>Journal of Food Protection</i> , 2008 , 71, 1169-77	2.5	51
99	Kinetics of net H ⁺ , Ca ²⁺ , K ⁺ , Na ⁺ , NH ₄ ⁺ , and Cl ⁻ fluxes associated with post-chilling recovery of plasma membrane transporters in <i>Zea mays</i> leaf and root tissues. <i>Physiologia Plantarum</i> , 2002 , 114, 47-58	4.6	51
98	Potassium retention in leaf mesophyll as an element of salinity tissue tolerance in halophytes. <i>Plant Physiology and Biochemistry</i> , 2016 , 109, 346-354	5.4	47
97	The native copper- and zinc-binding protein metallothionein blocks copper-mediated Aβ aggregation and toxicity in rat cortical neurons. <i>PLoS ONE</i> , 2010 , 5, e12030	3.7	47
96	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

95	Tissue-specific respiratory burst oxidase homolog-dependent H ₂ O ₂ signaling to the plasma membrane H ⁺ -ATPase confers potassium uptake and salinity tolerance in Cucurbitaceae. <i>Journal of Experimental Botany</i> , 2019 , 70, 5879-5893	7	46
94	Meta-analysis of major QTL for abiotic stress tolerance in barley and implications for barley breeding. <i>Planta</i> , 2017 , 245, 283-295	4.7	46
93	Linking oxidative and salinity stress tolerance in barley: can root antioxidant enzyme activity be used as a measure of stress tolerance?. <i>Plant and Soil</i> , 2013 , 365, 141-155	4.2	46
92	Waterlogging tolerance in barley is associated with faster aerenchyma formation in adventitious roots. <i>Plant and Soil</i> , 2015 , 394, 355-372	4.2	44
91	Responses of <i>Listeria monocytogenes</i> to acid stress and glucose availability revealed by a novel combination of fluorescence microscopy and microelectrode ion-selective techniques. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 1794-802	4.8	44
90	GORK Channel: A Master Switch of Plant Metabolism?. <i>Trends in Plant Science</i> , 2020 , 25, 434-445	13.1	43
89	GABA operates upstream of H ⁺ -ATPase and improves salinity tolerance in Arabidopsis by enabling cytosolic K ⁺ retention and Na ⁺ exclusion. <i>Journal of Experimental Botany</i> , 2019 , 70, 6349-6361	7	42
88	Evaluating relative contribution of osmotolerance and tissue tolerance mechanisms toward salinity stress tolerance in three Brassica species. <i>Physiologia Plantarum</i> , 2016 , 158, 135-51	4.6	41
87	Identification of aerenchyma formation-related QTL in barley that can be effective in breeding for waterlogging tolerance. <i>Theoretical and Applied Genetics</i> , 2016 , 129, 1167-77	6	40
86	Durum and bread wheat differ in their ability to retain potassium in leaf mesophyll: implications for salinity stress tolerance. <i>Plant and Cell Physiology</i> , 2014 , 55, 1749-62	4.9	40
85	Electrical signalling and cytokinins mediate effects of light and root cutting on ion uptake in intact plants. <i>Plant, Cell and Environment</i> , 2009 , 32, 194-207	8.4	40
84	K(bg) and Kv1.3 channels mediate potassium efflux in the early phase of apoptosis in Jurkat T lymphocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 297, C1544-53	5.4	39
83	Root vacuolar Na sequestration but not exclusion from uptake correlates with barley salt tolerance. <i>Plant Journal</i> , 2019 , 100, 55-67	6.9	38
82	Measurements of net fluxes and extracellular changes of H ⁺ , Ca ²⁺ , K ⁺ , and NH ₄ ⁺ in <i>Escherichia coli</i> using ion-selective microelectrodes. <i>Journal of Microbiological Methods</i> , 2001 , 46, 119-29	2.8	38
81	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
80	Cyclic mononucleotides modulate potassium and calcium flux responses to H ₂ O ₂ in Arabidopsis roots. <i>FEBS Letters</i> , 2014 , 588, 1008-15	3.8	37
79	Sequential depolarization of root cortical and stelar cells induced by an acute salt shock - implications for Na(+) and K(+) transport into xylem vessels. <i>Plant, Cell and Environment</i> , 2011 , 34, 859-69	8.4	37
78	<i>Listeria innocua</i> and <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i> employ different strategies to cope with acid stress. <i>International Journal of Food Microbiology</i> , 2006 , 110, 1-7	5.8	37

77	Hydrogen Peroxide-Induced Root Ca and K ⁺ Fluxes Correlate with Salt Tolerance in Cereals: Towards the Cell-Based Phenotyping. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	36
76	An early ABA-induced stomatal closure, Na ⁺ sequestration in leaf vein and K ⁺ retention in mesophyll confer salt tissue tolerance in Cucurbita species. <i>Journal of Experimental Botany</i> , 2018 , 69, 4945-4960	7	36
75	Plasma membrane Ca ²⁺ transporters mediate virus-induced acquired resistance to oxidative stress. <i>Plant, Cell and Environment</i> , 2011 , 34, 406-17	8.4	36
74	Role of a mitogen-activated protein kinase cascade in ion flux-mediated turgor regulation in fungi. <i>Eukaryotic Cell</i> , 2006 , 5, 480-7		36
73	Piriformospora indica improves salinity stress tolerance in Zea mays L. plants by regulating Na ⁺ and K ⁺ loading in root and allocating K ⁺ in shoot. <i>Plant Growth Regulation</i> , 2018 , 86, 323-331	3.2	35
72	Insect haptoelectrical stimulation of Venus flytrap triggers exocytosis in gland cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4822-4827	11.5	34
71	Linking oxygen availability with membrane potential maintenance and K ⁺ retention of barley roots: implications for waterlogging stress tolerance. <i>Plant, Cell and Environment</i> , 2014 , 37, 2325-38	8.4	34
70	Linking osmotic adjustment and stomatal characteristics with salinity stress tolerance in contrasting barley accessions. <i>Functional Plant Biology</i> , 2015 , 42, 252-263	2.7	34
69	Responses of Listeria monocytogenes to acid stress and glucose availability monitored by measurements of intracellular pH and viable counts. <i>International Journal of Food Microbiology</i> , 2002 , 75, 89-97	5.8	33
68	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
67	A new major-effect QTL for waterlogging tolerance in wild barley (H. spontaneum). <i>Theoretical and Applied Genetics</i> , 2017 , 130, 1559-1568	6	31
66	Calcium efflux as a component of the hypersensitive response of Nicotiana benthamiana to Pseudomonas syringae. <i>Plant and Cell Physiology</i> , 2008 , 49, 40-6	4.9	31
65	Plasma membrane H ⁺ and K ⁺ transporters are involved in the weak-acid preservative response of disparate food spoilage yeasts. <i>Microbiology (United Kingdom)</i> , 2005 , 151, 1995-2003	2.9	29
64	Residual transpiration as a component of salinity stress tolerance mechanism: a case study for barley. <i>BMC Plant Biology</i> , 2017 , 17, 107	5.3	28
63	Exogenously Applied 24-Epibrassinolide (EBL) Ameliorates Detrimental Effects of Salinity by Reducing K ⁺ Efflux via Depolarization-Activated K ⁺ Channels. <i>Plant and Cell Physiology</i> , 2017 , 58, 802-810	4.9	27
62	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
61	Developing and validating a high-throughput assay for salinity tissue tolerance in wheat and barley. <i>Planta</i> , 2015 , 242, 847-57	4.7	24
60	Revealing mechanisms of salinity tissue tolerance in succulent halophytes: A case study for Carpobrotus rossi. <i>Plant, Cell and Environment</i> , 2018 , 41, 2654-2667	8.4	23

59	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
58	Osmotic adjustment and requirement for sodium in marine protist thraustochytrid. <i>Environmental Microbiology</i> , 2009 , 11, 1835-43	5.2	22
57	Identification of QTL Related to ROS Formation under Hypoxia and Their Association with Waterlogging and Salt Tolerance in Barley. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	21
56	The ability to regulate voltage-gated K ⁺ -permeable channels in the mature root epidermis is essential for waterlogging tolerance in barley. <i>Journal of Experimental Botany</i> , 2018 , 69, 667-680	7	21
55	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
54	Cell-Based Phenotyping Reveals QTL for Membrane Potential Maintenance Associated with Hypoxia and Salinity Stress Tolerance in Barley. <i>Frontiers in Plant Science</i> , 2017 , 8, 1941	6.2	20
53	Calcium-Dependent Hydrogen Peroxide Mediates Hydrogen-Rich Water-Reduced Cadmium Uptake in Plant Roots. <i>Plant Physiology</i> , 2020 , 183, 1331-1344	6.6	19
52	Ion transport in broad bean leaf mesophyll under saline conditions. <i>Planta</i> , 2014 , 240, 729-43	4.7	19
51	Molecular mechanisms of salinity tolerance in rice. <i>Crop Journal</i> , 2021 , 9, 506-520	4.6	19
50	The loss of RBOHD function modulates root adaptive responses to combined hypoxia and salinity stress in Arabidopsis. <i>Environmental and Experimental Botany</i> , 2019 , 158, 125-135	5.9	17
49	Ion flux measurements using the MIFE technique. <i>Methods in Molecular Biology</i> , 2013 , 953, 171-83	1.4	16
48	Understanding physiological and morphological traits contributing to drought tolerance in barley. <i>Journal of Agronomy and Crop Science</i> , 2019 , 205, 129-140	3.9	16
47	Developing a high-throughput phenotyping method for oxidative stress tolerance in barley roots. <i>Plant Methods</i> , 2019 , 15, 12	5.8	15
46	Chloroplast-generated ROS dominate NaCl(-) induced K ⁽⁺⁾ efflux in wheat leaf mesophyll. <i>Plant Signaling and Behavior</i> , 2015 , 10, e1013793	2.5	15
45	Near-isogenic lines developed for a major QTL on chromosome arm 4HL conferring Fusarium crown rot resistance in barley. <i>Euphytica</i> , 2016 , 209, 555-563	2.1	15
44	Factors determining stomatal and non-stomatal (residual) transpiration and their contribution towards salinity tolerance in contrasting barley genotypes. <i>Environmental and Experimental Botany</i> , 2018 , 153, 10-20	5.9	14
43	Endomembrane Ca ²⁺ -ATPases play a significant role in virus-induced adaptation to oxidative stress. <i>Plant Signaling and Behavior</i> , 2011 , 6, 1053-6	2.5	14
42	Evidence for multiple receptors mediating RALF-triggered Ca signaling and proton pump inhibition. <i>Plant Journal</i> , 2020 , 104, 433-446	6.9	14

41	Hypoxia-induced increase in GABA content is essential for restoration of membrane potential and preventing ROS-induced disturbance to ion homeostasis. <i>Plant Communications</i> , 2021 , 2, 100188	9	14
40	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
39	Thraustochytrids can be grown in low-salt media without affecting PUFA production. <i>Marine Biotechnology</i> , 2013 , 15, 437-44	3.4	13
38	Lipid kinases PIP5K7 and PIP5K9 are required for polyamine-triggered K efflux in Arabidopsis roots. <i>Plant Journal</i> , 2020 , 104, 416-432	6.9	13
37	Extracellular Spermine Triggers a Rapid Intracellular Phosphatidic Acid Response in Arabidopsis, Involving PLD α Activation and Stimulating Ion Flux. <i>Frontiers in Plant Science</i> , 2019 , 10, 601	6.2	12
36	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
35	Plant ionic relation and whole-plant physiological responses to waterlogging, salinity and their combination in barley. <i>Functional Plant Biology</i> , 2017 , 44, 941-953	2.7	12
34	Prolonged Abeta treatment leads to impairment in the ability of primary cortical neurons to maintain K ⁺ and Ca ²⁺ homeostasis. <i>Molecular Neurodegeneration</i> , 2010 , 5, 30	19	12
33	Comparing Kinetics of Xylem Ion Loading and Its Regulation in Halophytes and Glycophytes. <i>Plant and Cell Physiology</i> , 2020 , 61, 403-415	4.9	12
32	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
31	Temperature influences waterlogging stress-induced damage in Arabidopsis through the regulation of photosynthesis and hypoxia-related genes. <i>Plant Growth Regulation</i> , 2019 , 89, 143-152	3.2	10
30	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
29	Homology Modeling Identifies Crucial Amino-Acid Residues That Confer Higher Na ⁺ Transport Capacity of OcHKT1;5 from <i>Oryza coarctata</i> Roxb. <i>Plant and Cell Physiology</i> , 2020 , 61, 1321-1334	4.9	9
28	Understanding the role of root-related traits in salinity tolerance of quinoa accessions with contrasting epidermal bladder cell patterning. <i>Planta</i> , 2020 , 251, 103	4.7	8
27	Conditioning of Roots with Hypoxia Increases Aluminum and Acid Stress Tolerance by Mitigating Activation of K ⁺ Efflux Channels by ROS in Barley: Insights into Cross-Tolerance Mechanisms. <i>Plant and Cell Physiology</i> , 2016 , 57, 160-73	4.9	8
26	A Thermodynamic Model of Monovalent Cation Homeostasis in the Yeast <i>Saccharomyces cerevisiae</i> . <i>PLoS Computational Biology</i> , 2016 , 12, e1004703	5	8
25	Cell surface and intracellular auxin signalling for H ⁺ fluxes in root growth. <i>Nature</i> , 2021 , 599, 273-277	50.4	8
24	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

23	Fish gill damage by harmful microalgae newly explored by microelectrode ion flux estimation techniques. <i>Harmful Algae</i> , 2018 , 80, 55-63	5.3	8
22	Evaluation of salt tolerance and contributing ionic mechanism in nine Hami melon landraces in Xinjiang, China. <i>Scientia Horticulturae</i> , 2018 , 237, 277-286	4.1	7
21	Effects of verapamil and gadolinium on caffeine-induced contractures and calcium fluxes in frog slow skeletal muscle fibers. <i>Journal of Membrane Biology</i> , 2008 , 221, 7-13	2.3	7
20	Redox-active Cu(II)-A β causes substantial changes in axonal integrity in cultured cortical neurons in an oxidative-stress dependent manner. <i>Experimental Neurology</i> , 2012 , 237, 499-506	5.7	6
19	Quantifying kinetics of net ion fluxes from plant tissues by non-invasive microelectrode measuring MIFE technique. <i>Methods in Molecular Biology</i> , 2012 , 913, 119-34	1.4	6
18	Exposure of colonic epithelial cells to oxidative and endoplasmic reticulum stress causes rapid potassium efflux and calcium influx. <i>Cell Biochemistry and Function</i> , 2013 , 31, 603-11	4.2	6
17	Sodium sequestration confers salinity tolerance in an ancestral wild rice. <i>Physiologia Plantarum</i> , 2021 , 172, 1594-1608	4.6	6
16	Understanding the mechanistic basis of adaptation of perennial <i>Sarcocornia quinqueflora</i> species to soil salinity. <i>Physiologia Plantarum</i> , 2021 , 172, 1997-2010	4.6	6
15	Antioxidant Enzymatic Activity and Osmotic Adjustment as Components of the Drought Tolerance Mechanism in. <i>Plants</i> , 2021 , 10,	4.5	6
14	Understanding the mechanistic basis of ameliorating effects of hydrogen rich water on salinity tolerance in barley. <i>Environmental and Experimental Botany</i> , 2020 , 177, 104136	5.9	5
13	Mechanisms underlying turgor regulation in the estuarine alga <i>Vaucheria erythrospora</i> (Xanthophyceae) exposed to hyperosmotic shock. <i>Plant, Cell and Environment</i> , 2015 , 38, 1514-27	8.4	5
12	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
11	Noninvasive microelectrode ion flux estimation technique (MIFE) for the study of the regulation of root membrane transport by cyclic nucleotides. <i>Methods in Molecular Biology</i> , 2013 , 1016, 95-106	1.4	3
10	Organic vs inorganic: What makes the major contribution to osmotic adjustment in bacteria?. <i>Communicative and Integrative Biology</i> , 2009 , 2, 74-5	1.7	3
9	Tissue-specificity of ROS-induced K and Ca fluxes in succulent stems of the perennial halophyte <i>Sarcocornia quinqueflora</i> in the context of salinity stress tolerance. <i>Plant Physiology and Biochemistry</i> , 2021 , 166, 1022-1031	5.4	3
8	Studying Membrane Transport Processes by Non-invasive Microelectrodes: Basic Principles and Methods 2012 , 167-186		2
7	Tg2576 cortical neurons that express human Ab are susceptible to extracellular A β -induced, K ⁺ efflux dependent neurodegeneration. <i>PLoS ONE</i> , 2011 , 6, e19026	3.7	2
6	Effects of Potassium Availability on Growth and Development of Barley Cultivars. <i>Agronomy</i> , 2021 , 11, 2269	3.6	2

5	Plant Breeding for Flood Tolerance: Advances and Limitations 2015 , 43-72		1
4	Development of suberized barrier is critical for ion partitioning between senescent and non-senescent tissues in a succulent halophyte <i>Sarcocornia quinqueflora</i> . <i>Environmental and Experimental Botany</i> , 2022 , 194, 104692	5.9	1
3	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
2	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
1	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