

# Lana Shabala

## 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.

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	Proto Kranz-like leaf traits and cellular ionic regulation are associated with salinity tolerance in a halophytic wild rice. <i>Stress Biology</i> , <b>2022</b> , 2, 1		0
129	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> , <b>2022</b> , 194, 104692	5.9	1
128	Evolutionary Significance of NHX Family and NHX1 in Salinity Stress Adaptation in the Genus .. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	1
127	Effects of Potassium Availability on Growth and Development of Barley Cultivars. <i>Agronomy</i> , <b>2021</b> , 11, 2269	3.6	2
126	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> , <b>2021</b> , 169, 333-342	5.4	4
125	Cell surface and intracellular auxin signalling for H fluxes in root growth. <i>Nature</i> , <b>2021</b> , 599, 273-277	50.4	8
124	Sodium sequestration confers salinity tolerance in an ancestral wild rice. <i>Physiologia Plantarum</i> , <b>2021</b> , 172, 1594-1608	4.6	6
123	Understanding the mechanistic basis of adaptation of perennial <i>Sarcocornia quinqueflora</i> species to soil salinity. <i>Physiologia Plantarum</i> , <b>2021</b> , 172, 1997-2010	4.6	6
122	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> , <b>2021</b> , 2, 100188	9	14
121	Molecular mechanisms of salinity tolerance in rice. <i>Crop Journal</i> , <b>2021</b> , 9, 506-520	4.6	19
120	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> , <b>2021</b> , 10,	4.5	1
119	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> , <b>2021</b> , 181, 104300	5.9	14
118	Antioxidant Enzymatic Activity and Osmotic Adjustment as Components of the Drought Tolerance Mechanism in. <i>Plants</i> , <b>2021</b> , 10,	4.5	6
117	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> , <b>2021</b> , 166, 1022-1031	5.4	3
116	Leaf mesophyll K <sup>+</sup> and Cl <sup>-</sup> fluxes and reactive oxygen species production predict rice salt tolerance at reproductive stage in greenhouse and field conditions. <i>Plant Growth Regulation</i> , <b>2020</b> , 92, 53-64	3.2	12
115	Understanding the role of root-related traits in salinity tolerance of quinoa accessions with contrasting epidermal bladder cell patterning. <i>Planta</i> , <b>2020</b> , 251, 103	4.7	8
114	Homology Modeling Identifies Crucial Amino-Acid Residues That Confer Higher Na <sup>+</sup> Transport Capacity of OCHKT1;5 from <i>Oryza coarctata</i> Roxb. <i>Plant and Cell Physiology</i> , <b>2020</b> , 61, 1321-1334	4.9	9

113	Calcium-Dependent Hydrogen Peroxide Mediates Hydrogen-Rich Water-Reduced Cadmium Uptake in Plant Roots. <i>Plant Physiology</i> , <b>2020</b> , 183, 1331-1344	6.6	19
112	Understanding the mechanistic basis of ameliorating effects of hydrogen rich water on salinity tolerance in barley. <i>Environmental and Experimental Botany</i> , <b>2020</b> , 177, 104136	5.9	5
111	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> , <b>2020</b> , 43, 2591-2605	8.4	37
110	GORK Channel: A Master Switch of Plant Metabolism?. <i>Trends in Plant Science</i> , <b>2020</b> , 25, 434-445	13.1	43
109	Identification of new QTL for salt tolerance from rice variety Pokkali. <i>Journal of Agronomy and Crop Science</i> , <b>2020</b> , 206, 202-213	3.9	20
108	Distinct Evolutionary Origins of Intron Retention Splicing Events in Antiporter Transcripts Relate to Sequence Specific Distinctions in Species. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 267	6.2	10
107	Comparing Kinetics of Xylem Ion Loading and Its Regulation in Halophytes and Glycophytes. <i>Plant and Cell Physiology</i> , <b>2020</b> , 61, 403-415	4.9	12
106	Lipid kinases PIP5K7 and PIP5K9 are required for polyamine-triggered K efflux in Arabidopsis roots. <i>Plant Journal</i> , <b>2020</b> , 104, 416-432	6.9	13
105	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> , <b>2020</b> , 21,	6.3	8
104	Evidence for multiple receptors mediating RALF-triggered Ca signaling and proton pump inhibition. <i>Plant Journal</i> , <b>2020</b> , 104, 433-446	6.9	14
103	Back to the Wild: On a Quest for Donors Toward Salinity Tolerant Rice. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 323	6.2	27
102	Extracellular Spermine Triggers a Rapid Intracellular Phosphatidic Acid Response in Arabidopsis, Involving PLD $\alpha$ Activation and Stimulating Ion Flux. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 601	6.2	12
101	Root vacuolar Na sequestration but not exclusion from uptake correlates with barley salt tolerance. <i>Plant Journal</i> , <b>2019</b> , 100, 55-67	6.9	38
100	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> , <b>2019</b> , 285, 248-257	5.3	9
99	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> , <b>2019</b> , 20,	6.3	21
98	Developing a high-throughput phenotyping method for oxidative stress tolerance in barley roots. <i>Plant Methods</i> , <b>2019</b> , 15, 12	5.8	15
97	GABA operates upstream of H <sup>+</sup> -ATPase and improves salinity tolerance in Arabidopsis by enabling cytosolic K <sup>+</sup> retention and Na <sup>+</sup> exclusion. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 6349-6361	7	42
96	Tissue-specific respiratory burst oxidase homolog-dependent H <sub>2</sub> O <sub>2</sub> signaling to the plasma membrane H <sup>+</sup> -ATPase confers potassium uptake and salinity tolerance in Cucurbitaceae. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 5879-5893	7	46

95	Temperature influences waterlogging stress-induced damage in Arabidopsis through the regulation of photosynthesis and hypoxia-related genes. <i>Plant Growth Regulation</i> , <b>2019</b> , 89, 143-152	3.2	10
94	Tissue-Specific Regulation of Na and K Transporters Explains Genotypic Differences in Salinity Stress Tolerance in Rice. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1361	6.2	22
93	The loss of RBOHD function modulates root adaptive responses to combined hypoxia and salinity stress in Arabidopsis. <i>Environmental and Experimental Botany</i> , <b>2019</b> , 158, 125-135	5.9	17
92	Understanding physiological and morphological traits contributing to drought tolerance in barley. <i>Journal of Agronomy and Crop Science</i> , <b>2019</b> , 205, 129-140	3.9	16
91	Transcriptional stimulation of rate-limiting components of the autophagic pathway improves plant fitness. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 1415-1432	7	73
90	The ability to regulate voltage-gated K <sup>+</sup> -permeable channels in the mature root epidermis is essential for waterlogging tolerance in barley. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 667-680	7	21
89	Revealing mechanisms of salinity tissue tolerance in succulent halophytes: A case study for <i>Carpobrotus rossi</i> . <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 2654-2667	8.4	23
88	Hydrogen Peroxide-Induced Root Ca and K <sup>+</sup> Fluxes Correlate with Salt Tolerance in Cereals: Towards the Cell-Based Phenotyping. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	36
87	An early ABA-induced stomatal closure, Na <sup>+</sup> sequestration in leaf vein and K <sup>+</sup> retention in mesophyll confer salt tissue tolerance in Cucurbita species. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 4945-4960	7	36
86	Na <sup>+</sup> extrusion from the cytosol and tissue-specific Na <sup>+</sup> sequestration in roots confer differential salt stress tolerance between durum and bread wheat. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 3987-4001	7.0	46
85	Evaluation of salt tolerance and contributing ionic mechanism in nine Hami melon landraces in Xinjiang, China. <i>Scientia Horticulturae</i> , <b>2018</b> , 237, 277-286	4.1	7
84	Factors determining stomatal and non-stomatal (residual) transpiration and their contribution towards salinity tolerance in contrasting barley genotypes. <i>Environmental and Experimental Botany</i> , <b>2018</b> , 153, 10-20	5.9	14
83	Piriformospora indica improves salinity stress tolerance in Zea mays L. plants by regulating Na <sup>+</sup> and K <sup>+</sup> loading in root and allocating K <sup>+</sup> in shoot. <i>Plant Growth Regulation</i> , <b>2018</b> , 86, 323-331	3.2	35
82	Fish gill damage by harmful microalgae newly explored by microelectrode ion flux estimation techniques. <i>Harmful Algae</i> , <b>2018</b> , 80, 55-63	5.3	8
81	Hydroxyl radical scavenging by cerium oxide nanoparticles improves Arabidopsis salinity tolerance by enhancing leaf mesophyll potassium retention. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 1567-1583	7.1	95
80	Physiological and molecular mechanisms mediating xylem Na loading in barley in the context of salinity stress tolerance. <i>Plant, Cell and Environment</i> , <b>2017</b> , 40, 1009-1020	8.4	59
79	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> , <b>2017</b> , 114, 4822-4827	11.5	34
78	Exogenously Applied 24-Epibrassinolide (EBL) Ameliorates Detrimental Effects of Salinity by Reducing K <sup>+</sup> Efflux via Depolarization-Activated K <sup>+</sup> Channels. <i>Plant and Cell Physiology</i> , <b>2017</b> , 58, 802-810	4.9	27

77	A new major-effect QTL for waterlogging tolerance in wild barley ( <i>H. spontaneum</i> ). <i>Theoretical and Applied Genetics</i> , <b>2017</b> , 130, 1559-1568	6	31
76	Residual transpiration as a component of salinity stress tolerance mechanism: a case study for barley. <i>BMC Plant Biology</i> , <b>2017</b> , 17, 107	5.3	28
75	Meta-analysis of major QTL for abiotic stress tolerance in barley and implications for barley breeding. <i>Planta</i> , <b>2017</b> , 245, 283-295	4.7	46
74	Cell-Based Phenotyping Reveals QTL for Membrane Potential Maintenance Associated with Hypoxia and Salinity Stress Tolerance in Barley. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1941	6.2	20
73	Plant ionic relation and whole-plant physiological responses to waterlogging, salinity and their combination in barley. <i>Functional Plant Biology</i> , <b>2017</b> , 44, 941-953	2.7	12
72	Revealing the roles of GORK channels and NADPH oxidase in acclimation to hypoxia in Arabidopsis. <i>Journal of Experimental Botany</i> , <b>2017</b> , 68, 3191-3204	7	33
71	Difference in root K <sup>+</sup> retention ability and reduced sensitivity of K <sup>+</sup> -permeable channels to reactive oxygen species confer differential salt tolerance in three Brassica species. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 4611-25	7	84
70	Potassium retention in leaf mesophyll as an element of salinity tissue tolerance in halophytes. <i>Plant Physiology and Biochemistry</i> , <b>2016</b> , 109, 346-354	5.4	47
69	Cell-Type-Specific H <sup>+</sup> -ATPase Activity in Root Tissues Enables K <sup>+</sup> Retention and Mediates Acclimation of Barley ( <i>Hordeum vulgare</i> ) to Salinity Stress. <i>Plant Physiology</i> , <b>2016</b> , 172, 2445-2458	6.6	99
68	Evaluating relative contribution of osmotolerance and tissue tolerance mechanisms toward salinity stress tolerance in three Brassica species. <i>Physiologia Plantarum</i> , <b>2016</b> , 158, 135-51	4.6	41
67	The Venus Flytrap <i>Dionaea muscipula</i> Counts Prey-Induced Action Potentials to Induce Sodium Uptake. <i>Current Biology</i> , <b>2016</b> , 26, 286-95	6.3	92
66	Identification of aerenchyma formation-related QTL in barley that can be effective in breeding for waterlogging tolerance. <i>Theoretical and Applied Genetics</i> , <b>2016</b> , 129, 1167-77	6	40
65	Nax loci affect SOS1-like Na <sup>+</sup> /H <sup>+</sup> exchanger expression and activity in wheat. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 835-44	7	70
64	Conditioning of Roots with Hypoxia Increases Aluminum and Acid Stress Tolerance by Mitigating Activation of K <sup>+</sup> Efflux Channels by ROS in Barley: Insights into Cross-Tolerance Mechanisms. <i>Plant and Cell Physiology</i> , <b>2016</b> , 57, 160-73	4.9	8
63	A Thermodynamic Model of Monovalent Cation Homeostasis in the Yeast <i>Saccharomyces cerevisiae</i> . <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1004703	5	8
62	Near-isogenic lines developed for a major QTL on chromosome arm 4HL conferring Fusarium crown rot resistance in barley. <i>Euphytica</i> , <b>2016</b> , 209, 555-563	2.1	15
61	Linking salinity stress tolerance with tissue-specific Na <sup>(+)</sup> sequestration in wheat roots. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 71	6.2	65
60	Chloroplast-generated ROS dominate NaCl(-) induced K <sup>(+)</sup> efflux in wheat leaf mesophyll. <i>Plant Signaling and Behavior</i> , <b>2015</b> , 10, e1013793	2.5	15

59	K <sup>+</sup> retention in leaf mesophyll, an overlooked component of salinity tolerance mechanism: a case study for barley. <i>Journal of Integrative Plant Biology</i> , <b>2015</b> , 57, 171-85	8.3	98
58	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> , <b>2015</b> , 43, 75-86	2.7	56
57	Developing and validating a high-throughput assay for salinity tissue tolerance in wheat and barley. <i>Planta</i> , <b>2015</b> , 242, 847-57	4.7	24
56	Waterlogging tolerance in barley is associated with faster aerenchyma formation in adventitious roots. <i>Plant and Soil</i> , <b>2015</b> , 394, 355-372	4.2	44
55	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> , <b>2015</b> , 112, 7309-14	11.5	72
54	Plant Breeding for Flood Tolerance: Advances and Limitations <b>2015</b> , 43-72		1
53	Mechanisms underlying turgor regulation in the estuarine alga <i>Vaucheria erythrospora</i> (Xanthophyceae) exposed to hyperosmotic shock. <i>Plant, Cell and Environment</i> , <b>2015</b> , 38, 1514-27	8.4	5
52	Linking osmotic adjustment and stomatal characteristics with salinity stress tolerance in contrasting barley accessions. <i>Functional Plant Biology</i> , <b>2015</b> , 42, 252-263	2.7	34
51	Linking oxygen availability with membrane potential maintenance and K <sup>+</sup> retention of barley roots: implications for waterlogging stress tolerance. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 2325-38	8.4	34
50	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> , <b>2014</b> , 55, 1749-62	4.9	40
49	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> , <b>2014</b> , 83, 32-9	5.4	72
48	Cyclic mononucleotides modulate potassium and calcium flux responses to H <sub>2</sub> O <sub>2</sub> in <i>Arabidopsis</i> roots. <i>FEBS Letters</i> , <b>2014</b> , 588, 1008-15	3.8	37
47	Kinetics of xylem loading, membrane potential maintenance, and sensitivity of K <sup>(+)</sup> -permeable channels to reactive oxygen species: physiological traits that differentiate salinity tolerance between pea and barley. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 589-600	8.4	88
46	Ion transport in broad bean leaf mesophyll under saline conditions. <i>Planta</i> , <b>2014</b> , 240, 729-43	4.7	19
45	Annexin 1 regulates the H <sub>2</sub> O <sub>2</sub> -induced calcium signature in <i>Arabidopsis thaliana</i> roots. <i>Plant Journal</i> , <b>2014</b> , 77, 136-45	6.9	89
44	Membrane transporters mediating root signalling and adaptive responses to oxygen deprivation and soil flooding. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 2216-33	8.4	84
43	Thraustochytrids can be grown in low-salt media without affecting PUFA production. <i>Marine Biotechnology</i> , <b>2013</b> , 15, 437-44	3.4	13
42	Ability of leaf mesophyll to retain potassium correlates with salinity tolerance in wheat and barley. <i>Physiologia Plantarum</i> , <b>2013</b> , 149, 515-27	4.6	88

41	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> , <b>2013</b> , 1016, 95-106	1.4	3
40	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> , <b>2013</b> , 365, 141-155	4.2	46
39	Salinity-induced calcium signaling and root adaptation in Arabidopsis require the calcium regulatory protein annexin1. <i>Plant Physiology</i> , <b>2013</b> , 163, 253-62	6.6	93
38	Barley responses to combined waterlogging and salinity stress: separating effects of oxygen deprivation and elemental toxicity. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 313	6.2	64
37	Differential activity of plasma and vacuolar membrane transporters contributes to genotypic differences in salinity tolerance in a Halophyte Species, Chenopodium quinoa. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 9267-85	6.3	78
36	Exposure of colonic epithelial cells to oxidative and endoplasmic reticulum stress causes rapid potassium efflux and calcium influx. <i>Cell Biochemistry and Function</i> , <b>2013</b> , 31, 603-11	4.2	6
35	Ion flux measurements using the MIFE technique. <i>Methods in Molecular Biology</i> , <b>2013</b> , 953, 171-83	1.4	16
34	Redox-active Cu(II)-A $\beta$ causes substantial changes in axonal integrity in cultured cortical neurons in an oxidative-stress dependent manner. <i>Experimental Neurology</i> , <b>2012</b> , 237, 499-506	5.7	6
33	Quantifying kinetics of net ion fluxes from plant tissues by non-invasive microelectrode measuring MIFE technique. <i>Methods in Molecular Biology</i> , <b>2012</b> , 913, 119-34	1.4	6
32	Studying Membrane Transport Processes by Non-invasive Microelectrodes: Basic Principles and Methods <b>2012</b> , 167-186		2
31	Oxidative stress protection and stomatal patterning as components of salinity tolerance mechanism in quinoa (Chenopodium quinoa). <i>Physiologia Plantarum</i> , <b>2012</b> , 146, 26-38	4.6	145
30	Tg2576 cortical neurons that express human Ab are susceptible to extracellular A $\beta$ -induced, K <sup>+</sup> efflux dependent neurodegeneration. <i>PLoS ONE</i> , <b>2011</b> , 6, e19026	3.7	2
29	Plasma membrane Ca <sup>2+</sup> transporters mediate virus-induced acquired resistance to oxidative stress. <i>Plant, Cell and Environment</i> , <b>2011</b> , 34, 406-17	8.4	36
28	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> , <b>2011</b> , 34, 859-69	8.4	37
27	Ion transport and osmotic adjustment in plants and bacteria. <i>Biomolecular Concepts</i> , <b>2011</b> , 2, 407-19	3.7	76
26	Endomembrane Ca <sup>2+</sup> -ATPases play a significant role in virus-induced adaptation to oxidative stress. <i>Plant Signaling and Behavior</i> , <b>2011</b> , 6, 1053-6	2.5	14
25	The native copper- and zinc-binding protein metallothionein blocks copper-mediated Abeta aggregation and toxicity in rat cortical neurons. <i>PLoS ONE</i> , <b>2010</b> , 5, e12030	3.7	47
24	Prolonged Abeta treatment leads to impairment in the ability of primary cortical neurons to maintain K <sup>+</sup> and Ca <sup>2+</sup> homeostasis. <i>Molecular Neurodegeneration</i> , <b>2010</b> , 5, 30	19	12

23	Organic vs inorganic: What makes the major contribution to osmotic adjustment in bacteria? <i>Communicative and Integrative Biology</i> , <b>2009</b> , 2, 74-5	1.7	3
22	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> , <b>2009</b> , 297, C1544-53	5.4	39
21	Electrical signalling and cytokinins mediate effects of light and root cutting on ion uptake in intact plants. <i>Plant, Cell and Environment</i> , <b>2009</b> , 32, 194-207	8.4	40
20	Ion transport and osmotic adjustment in <i>Escherichia coli</i> in response to ionic and non-ionic osmotica. <i>Environmental Microbiology</i> , <b>2009</b> , 11, 137-48	5.2	97
19	Osmotic adjustment and requirement for sodium in marine protist thraustochytrid. <i>Environmental Microbiology</i> , <b>2009</b> , 11, 1835-43	5.2	22
18	Cyclopropane fatty acids improve <i>Escherichia coli</i> survival in acidified minimal media by reducing membrane permeability to H <sup>+</sup> and enhanced ability to extrude H <sup>+</sup> . <i>Research in Microbiology</i> , <b>2008</b> , 159, 458-61	4	79
17	Calcium efflux as a component of the hypersensitive response of <i>Nicotiana benthamiana</i> to <i>Pseudomonas syringae</i> . <i>Plant and Cell Physiology</i> , <b>2008</b> , 49, 40-6	4.9	31
16	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> , <b>2008</b> , 71, 1169-77	2.5	51
15	Effects of verapamil and gadolinium on caffeine-induced contractures and calcium fluxes in frog slow skeletal muscle fibers. <i>Journal of Membrane Biology</i> , <b>2008</b> , 221, 7-13	2.3	7
14	Effect of secondary metabolites associated with anaerobic soil conditions on ion fluxes and electrophysiology in barley roots. <i>Plant Physiology</i> , <b>2007</b> , 145, 266-76	6.6	55
13	<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> , <b>2006</b> , 110, 1-7	5.8	37
12	Oscillations in plant membrane transport: model predictions, experimental validation, and physiological implications. <i>Journal of Experimental Botany</i> , <b>2006</b> , 57, 171-84	7	73
11	Extracellular Ca <sup>2+</sup> ameliorates NaCl-induced K <sup>+</sup> loss from <i>Arabidopsis</i> root and leaf cells by controlling plasma membrane K <sup>+</sup> -permeable channels. <i>Plant Physiology</i> , <b>2006</b> , 141, 1653-65	6.6	361
10	Role of a mitogen-activated protein kinase cascade in ion flux-mediated turgor regulation in fungi. <i>Eukaryotic Cell</i> , <b>2006</b> , 5, 480-7		36
9	Non-invasive microelectrode ion flux measurements to study adaptive responses of microorganisms to the environment. <i>FEMS Microbiology Reviews</i> , <b>2006</b> , 30, 472-86	15.1	88
8	Salinity-induced ion flux patterns from the excised roots of <i>Arabidopsis</i> sos mutants. <i>Planta</i> , <b>2005</b> , 222, 1041-50	4.7	200
7	Effect of divalent cations on ion fluxes and leaf photochemistry in salinized barley leaves. <i>Journal of Experimental Botany</i> , <b>2005</b> , 56, 1369-78	7	79
6	Plasma membrane H <sup>+</sup> and K <sup>+</sup> transporters are involved in the weak-acid preservative response of disparate food spoilage yeasts. <i>Microbiology (United Kingdom)</i> , <b>2005</b> , 151, 1995-2003	2.9	29

5	Effect of calcium on root development and root ion fluxes in salinised barley seedlings. <i>Functional Plant Biology</i> , <b>2003</b> , 30, 507-514	2.7	154
4	Responses of <i>Listeria monocytogenes</i> to acid stress and glucose availability monitored by measurements of intracellular pH and viable counts. <i>International Journal of Food Microbiology</i> , <b>2002</b> , 75, 89-97	5.8	33
3	Kinetics of net H <sup>+</sup> , Ca <sup>2+</sup> , K <sup>+</sup> , Na <sup>+</sup> , NH <sub>4</sub> <sup>+</sup> , and Cl <sup>-</sup> fluxes associated with post-chilling recovery of plasma membrane transporters in <i>Zea mays</i> leaf and root tissues. <i>Physiologia Plantarum</i> , <b>2002</b> , 114, 47-56	4.6	51
2	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> , <b>2002</b> , 68, 1794-802	4.8	44
1	Measurements of net fluxes and extracellular changes of H <sup>+</sup> , Ca <sup>2+</sup> , K <sup>+</sup> , and NH <sub>4</sub> <sup>+</sup> in <i>Escherichia coli</i> using ion-selective microelectrodes. <i>Journal of Microbiological Methods</i> , <b>2001</b> , 46, 119-29	2.8	38