

# Richard Wilson

## List of Publications by Year in descending order

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221  
papers

10,168  
citations

31976

53  
h-index

46799

89  
g-index

230  
all docs

230  
docs citations

230  
times ranked

9417  
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning from halophytes: physiological basis and strategies to improve abiotic stress tolerance in crops. <i>Annals of Botany</i> , 2013, 112, 1209-1221.	2.9	645
2	Mechanisms of Plant Responses and Adaptation to Soil Salinity. <i>Innovation(China)</i> , 2020, 1, 100017.	9.1	387
3	Calcium transport across plant membranes: mechanisms and functions. <i>New Phytologist</i> , 2018, 220, 49-69.	7.3	289
4	Energy costs of salt tolerance in crop plants. <i>New Phytologist</i> , 2020, 225, 1072-1090.	7.3	284
5	Salt tolerance mechanisms in quinoa ( <i>Chenopodium quinoa</i> Willd.). <i>Environmental and Experimental Botany</i> , 2013, 92, 43-54.	4.2	263
6	Salt bladders: do they matter?. <i>Trends in Plant Science</i> , 2014, 19, 687-691.	8.8	247
7	It is not all about sodium: revealing tissue specificity and signalling roles of potassium in plant responses to salt stress. <i>Plant and Soil</i> , 2018, 431, 1-17.	3.7	245
8	Chloroplast function and ion regulation in plants growing on saline soils: lessons from halophytes. <i>Journal of Experimental Botany</i> , 2017, 68, 3129-3143.	4.8	187
9	Salicylic acid in plant salinity stress signalling and tolerance. <i>Plant Growth Regulation</i> , 2015, 76, 25-40.	3.4	186
10	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.	5.2	181
11	A high-quality genome assembly of quinoa provides insights into the molecular basis of salt bladder-based salinity tolerance and the exceptional nutritional value. <i>Cell Research</i> , 2017, 27, 1327-1340.	12.0	170
12	The translocation, folding, assembly and redox-dependent degradation of secretory and membrane proteins in semi-permeabilized mammalian cells. <i>Biochemical Journal</i> , 1995, 307, 679-687.	3.7	166
13	Signalling by potassium: another second messenger to add to the list?. <i>Journal of Experimental Botany</i> , 2017, 68, 4003-4007.	4.8	159
14	Doing "business as usual" comes with a cost: evaluating energy cost of maintaining plant intracellular K <sup>+</sup> homeostasis under saline conditions. <i>New Phytologist</i> , 2020, 225, 1097-1104.	7.3	140
15	Protein disulfide Isomerase Acts as a Molecular Chaperone during the Assembly of Procollagen. <i>Journal of Biological Chemistry</i> , 1998, 273, 9637-9643.	3.4	129
16	Non-stomatal limitation of photosynthesis by soil salinity. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 791-825.	12.8	129
17	Cell surface and intracellular auxin signalling for H <sup>+</sup> fluxes in root growth. <i>Nature</i> , 2021, 599, 273-277.	27.8	128
18	Amino acids regulate salinity-induced potassium efflux in barley root epidermis. <i>Planta</i> , 2007, 225, 753-761.	3.2	127

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19	Targeted Induction of Endoplasmic Reticulum Stress Induces Cartilage Pathology. <i>PLoS Genetics</i> , 2009, 5, e1000691.	3.5	127
20	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 <i>Brassica</i> species. <i>Journal of Experimental Botany</i> , 2016, 67, 4611-4625.	4.8	127
21	Soil and Crop Management Practices to Minimize the Impact of Waterlogging on Crop Productivity. <i>Frontiers in Plant Science</i> , 2019, 10, 140.	3.6	120
22	Ability of leaf mesophyll to retain potassium correlates with salinity tolerance in wheat and barley. <i>Physiologia Plantarum</i> , 2013, 149, 515-527.	5.2	113
23	Stomata in a saline world. <i>Current Opinion in Plant Biology</i> , 2018, 46, 87-95.	7.1	111
24	QTLs for stomatal and photosynthetic traits related to salinity tolerance in barley. <i>BMC Genomics</i> , 2017, 18, 9.	2.8	108
25	Understanding the Molecular Basis of Salt Sequestration in Epidermal Bladder Cells of <i>Chenopodium quinoa</i> . <i>Current Biology</i> , 2018, 28, 3075-3085.e7.	3.9	98
26	Metabolomics Data Normalization with EigenMS. <i>PLoS ONE</i> , 2014, 9, e116221.	2.5	96
27	<i>Nax</i> loci affect SOS1-like Na <sup>+</sup> /H <sup>+</sup> exchanger expression and activity in wheat. <i>Journal of Experimental Botany</i> , 2016, 67, 835-844.	4.8	95
28	Reproductive Physiology of Halophytes: Current Standing. <i>Frontiers in Plant Science</i> , 2018, 9, 1954.	3.6	94
29	Melatonin improves rice salinity stress tolerance by NADPH oxidase-dependent control of the plasma membrane K <sup>+</sup> transporters and K <sup>+</sup> homeostasis. <i>Plant, Cell and Environment</i> , 2020, 43, 2591-2605.	5.7	93
30	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> , 2019, 70, 5879-5893.	4.8	90
31	Reducing Cadmium Accumulation in Plants: Structure-Function Relations and Tissue-Specific Operation of Transporters in the Spotlight. <i>Plants</i> , 2020, 9, 223.	3.5	88
32	Extensive Gene Acquisition in the Extremely Psychrophilic Bacterial Species <i>Psychroflexus torquis</i> and the Link to Sea-Ice Ecosystem Specialism. <i>Genome Biology and Evolution</i> , 2014, 6, 133-148.	2.5	87
33	Linking salinity stress tolerance with tissue-specific Na <sup>+</sup> sequestration in wheat roots. <i>Frontiers in Plant Science</i> , 2015, 6, 71.	3.6	86
34	The energy cost of the tonoplast futile sodium leak. <i>New Phytologist</i> , 2020, 225, 1105-1110.	7.3	86
35	Differentially expressed proteins in gill and skin mucus of Atlantic salmon ( <i>Salmo salar</i> ) affected by amoebic gill disease. <i>Fish and Shellfish Immunology</i> , 2014, 40, 69-77.	3.6	85
36	Genome-Wide Association Study Reveals a New QTL for Salinity Tolerance in Barley ( <i>Hordeum vulgare</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.6	83

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37	Root vacuolar Na <sup>+</sup> sequestration but not exclusion from uptake correlates with barley salt tolerance. <i>Plant Journal</i> , 2019, 100, 55-67.	5.7	80
38	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 <i>Cucurbita</i> species. <i>Journal of Experimental Botany</i> , 2018, 69, 4945-4960.	4.8	77
39	Crop Halophytism: An Environmentally Sustainable Solution for Global Food Security. <i>Trends in Plant Science</i> , 2020, 25, 630-634.	8.8	77
40	Rutin, a flavonoid with antioxidant activity, improves plant salinity tolerance by regulating K <sup>+</sup> retention and Na <sup>+</sup> exclusion from leaf mesophyll in quinoa and broad beans. <i>Functional Plant Biology</i> , 2016, 43, 75.	2.1	76
41	Comprehensive Profiling of Cartilage Extracellular Matrix Formation and Maturation Using Sequential Extraction and Label-free Quantitative Proteomics. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1296-1313.	3.8	73
42	Changes in the Chondrocyte and Extracellular Matrix Proteome during Post-natal Mouse Cartilage Development. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.014159.	3.8	73
43	GABA operates upstream of H <sup>+</sup> -ATPase and improves salinity tolerance in <i>Arabidopsis</i> by enabling cytosolic K <sup>+</sup> retention and Na <sup>+</sup> exclusion. <i>Journal of Experimental Botany</i> , 2019, 70, 6349-6361.	4.8	73
44	GORK Channel: A Master Switch of Plant Metabolism?. <i>Trends in Plant Science</i> , 2020, 25, 434-445.	8.8	73
45	S100A8 and S100A9 in experimental osteoarthritis. <i>Arthritis Research and Therapy</i> , 2010, 12, R16.	3.5	72
46	<i>Piriformospora indica</i> improves salinity stress tolerance in <i>Zea mays</i> 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> , 2018, 86, 323-331.	3.4	71
47	Type-III procollagen assembly in semi-intact cells: chain association, nucleation and triple-helix folding do not require formation of inter-chain disulphide bonds but triple-helix nucleation does require hydroxylation. <i>Biochemical Journal</i> , 1996, 317, 195-202.	3.7	70
48	Tissue-Specific Regulation of Na <sup>+</sup> and K <sup>+</sup> Transporters Explains Genotypic Differences in Salinity Stress Tolerance in Rice. <i>Frontiers in Plant Science</i> , 2019, 10, 1361.	3.6	67
49	Boron Alleviates Aluminum Toxicity by Promoting Root Alkalization in Transition Zone via Polar Auxin Transport. <i>Plant Physiology</i> , 2018, 177, 1254-1266.	4.8	65
50	Mutations of COL10A1 in Schmid metaphyseal chondrodysplasia. <i>Human Mutation</i> , 2005, 25, 525-534.	2.5	64
51	AFB1 controls rapid auxin signalling through membrane depolarization in <i>Arabidopsis thaliana</i> root. <i>Nature Plants</i> , 2021, 7, 1229-1238.	9.3	59
52	Misfolding of Collagen X Chains Harboring Schmid Metaphyseal Chondrodysplasia Mutations Results in Aberrant Disulfide Bond Formation, Intracellular Retention, and Activation of the Unfolded Protein Response. <i>Journal of Biological Chemistry</i> , 2005, 280, 15544-15552.	3.4	58
53	Proteomic characterization of mouse cartilage degradation in vitro. <i>Arthritis and Rheumatism</i> , 2008, 58, 3120-3131.	6.7	58
54	Evaluating relative contribution of osmotolerance and tissue tolerance mechanisms toward salinity stress tolerance in three <i>Brassica</i> species. <i>Physiologia Plantarum</i> , 2016, 158, 135-151.	5.2	58

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55	Back to the Wild: On a Quest for Donors Toward Salinity Tolerant Rice. <i>Frontiers in Plant Science</i> , 2020, 11, 323.	3.6	54
56	Arsenic transport and interaction with plant metabolism: Clues for improving agricultural productivity and food safety. <i>Environmental Pollution</i> , 2021, 290, 117987.	7.5	54
57	Chromatographic methods for the isolation, separation and characterisation of dissolved organic matter. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 1531-1567.	3.5	52
58	Rewilding crops for climate resilience: economic analysis and <i>de novo</i> domestication strategies. <i>Journal of Experimental Botany</i> , 2021, 72, 6123-6139.	4.8	52
59	Light-stimulated growth of proteorhodopsin-bearing sea-ice psychrophile <i>Psychroflexus torquis</i> is salinity dependent. <i>ISME Journal</i> , 2013, 7, 2206-2213.	9.8	51
60	Control of xylem Na <sup>+</sup> loading and transport to the shoot in rice and barley as a determinant of differential salinity stress tolerance. <i>Physiologia Plantarum</i> , 2019, 165, 619-631.	5.2	50
61	Friend or Foe? Chloride Patterning in Halophytes. <i>Trends in Plant Science</i> , 2019, 24, 142-151.	8.8	49
62	NADPH oxidases and the evolution of plant salinity tolerance. <i>Plant, Cell and Environment</i> , 2020, 43, 2957-2968.	5.7	49
63	Prospects for the accelerated improvement of the resilient crop quinoa. <i>Journal of Experimental Botany</i> , 2020, 71, 5333-5347.	4.8	49
64	The State of the Art in Modeling Waterlogging Impacts on Plants: What Do We Know and What Do We Need to Know. <i>Earth's Future</i> , 2020, 8, e2020EF001801.	6.3	49
65	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.	7.7	47
66	Comparative Proteomic Analysis of Normal and Collagen IX Null Mouse Cartilage Reveals Altered Extracellular Matrix Composition and Novel Components of the Collagen IX Interactome. <i>Journal of Biological Chemistry</i> , 2013, 288, 13481-13492.	3.4	46
67	Improving Performance of Salt-Grown Crops by Exogenous Application of Plant Growth Regulators. <i>Biomolecules</i> , 2021, 11, 788.	4.0	46
68	Phylogenetic Diversity and Physiological Roles of Plant Monovalent Cation/H <sup>+</sup> Antiporters. <i>Frontiers in Plant Science</i> , 2020, 11, 573564.	3.6	45
69	Understanding Mechanisms of Salinity Tolerance in Barley by Proteomic and Biochemical Analysis of Near-Isogenic Lines. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1516.	4.1	45
70	Fibrillin assembly: dimer formation mediated by amino-terminal sequences. <i>Journal of Cell Science</i> , 1999, 112, 3549-3558.	2.0	45
71	Liver proteome response of pre-harvest Atlantic salmon following exposure to elevated temperature. <i>BMC Genomics</i> , 2018, 19, 133.	2.8	43
72	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, 699.	4.1	42

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73	WARP Is a Novel Multimeric Component of the Chondrocyte Pericellular Matrix That Interacts with Perlecan. <i>Journal of Biological Chemistry</i> , 2006, 281, 7341-7349.	3.4	41
74	Chronic Î²<sub>2</sub>-adrenoceptor agonist treatment alters muscle proteome and functional adaptations induced by high intensity training in young men. <i>Journal of Physiology</i> , 2018, 596, 231-252.	2.9	41
75	Stomatal traits as a determinant of superior salinity tolerance in wild barley. <i>Journal of Plant Physiology</i> , 2020, 245, 153108.	3.5	41
76	Dark metabolism: a molecular insight into how the Antarctic sea-ice diatom <i>Fragilariopsis cylindrus</i> survives long-term darkness. <i>New Phytologist</i> , 2019, 223, 675-691.	7.3	40
77	A large-scale screening of quinoa accessions reveals an important role of epidermal bladder cells and stomatal patterning in salinity tolerance. <i>Environmental and Experimental Botany</i> , 2019, 168, 103885.	4.2	39
78	Cartilage-specific ablation of XBP1 signaling in mouse results in a chondrodysplasia characterized by reduced chondrocyte proliferation and delayed cartilage maturation and mineralization. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 661-670.	1.3	38
79	Impact of Lactose Starvation on the Physiology of <i>Lactobacillus casei</i> GCRL163 in the Presence or Absence of Tween 80. <i>Journal of Proteome Research</i> , 2013, 12, 5313-5322.	3.7	37
80	Identification of vitamin D sensitive pathways during lung development. <i>Respiratory Research</i> , 2016, 17, 47.	3.6	37
81	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.	4.2	36
82	Metabolomics reveals increased isoleukotoxin diol (12,13-DHOME) in human plasma after acute Intralipid infusion. <i>Journal of Lipid Research</i> , 2012, 53, 1979-1986.	4.2	35
83	Understanding physiological and morphological traits contributing to drought tolerance in barley. <i>Journal of Agronomy and Crop Science</i> , 2019, 205, 129-140.	3.5	34
84	Calcium-Dependent Hydrogen Peroxide Mediates Hydrogen-Rich Water-Reduced Cadmium Uptake in Plant Roots. <i>Plant Physiology</i> , 2020, 183, 1331-1344.	4.8	34
85	A new allele for aluminium tolerance gene in barley ( <i>Hordeum vulgare</i> L.). <i>BMC Genomics</i> , 2016, 17, 186.	2.8	33
86	Revealing mechanisms of salinity tissue tolerance in succulent halophytes: a case study for <i>Carpobrotus rossi</i> . <i>Plant, Cell and Environment</i> , 2018, 41, 2654-2667.	5.7	33
87	Biochemical pH clamp: the forgotten resource in membrane bioenergetics. <i>New Phytologist</i> , 2020, 225, 37-47.	7.3	33
88	Evolution of rapid blue-light response linked to explosive diversification of ferns in angiosperm forests. <i>New Phytologist</i> , 2021, 230, 1201-1213.	7.3	33
89	Proteomic analysis of mouse growth plate cartilage. <i>Proteomics</i> , 2006, 6, 6549-6553.	2.2	32
90	Proteomic analysis of cartilage proteins. <i>Methods</i> , 2008, 45, 22-31.	3.8	32

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91	Identification of new QTL for salt tolerance from rice variety Pokkali. <i>Journal of Agronomy and Crop Science</i> , 2020, 206, 202-213.	3.5	31
92	A multiple near isogenic line (multi-NIL) RNA-seq approach to identify candidate genes underpinning QTL. <i>Theoretical and Applied Genetics</i> , 2018, 131, 613-624.	3.6	30
93	Collagen X Chains Harboring Schmid Metaphyseal Chondrodysplasia NC1 Domain Mutations Are Selectively Retained and Degraded in Stably Transfected Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 12516-12524.	3.4	29
94	Two of a kind: transmissible Schwann cell cancers in the endangered Tasmanian devil ( <i>Sarcophilus</i> ). <i>Trends in Ecology and Evolution</i> , 2010, 25, 101-108.	5.4	28
95	Lipid kinases PIP5K7 and PIP5K9 are required for polyamine-triggered K <sup>+</sup> efflux in <i>Arabidopsis</i> roots. <i>Plant Journal</i> , 2020, 104, 416-432.	5.7	28
96	Novel Elements of the Chondrocyte Stress Response Identified Using an in Vitro Model of Mouse Cartilage Degradation. <i>Journal of Proteome Research</i> , 2016, 15, 1033-1050.	3.7	27
97	Melatonin as a regulator of plant ionic homeostasis: implications for abiotic stress tolerance. <i>Journal of Experimental Botany</i> , 2022, 73, 5886-5902.	4.8	26
98	Antioxidant Enzymatic Activity and Osmotic Adjustment as Components of the Drought Tolerance Mechanism in <i>Carex duriuscula</i> . <i>Plants</i> , 2021, 10, 436.	3.5	25
99	Biochemical and biophysical pH clamp controlling Net H <sup>+</sup> efflux across the plasma membrane of plant cells. <i>New Phytologist</i> , 2021, 230, 408-415.	7.3	25
100	Quantitative Trait Loci for Salinity Tolerance Identified under Drained and Waterlogged Conditions and Their Association with Flowering Time in Barley ( <i>Hordeum vulgare</i> L.). <i>PLoS ONE</i> , 2015, 10, e0134822.	2.5	25
101	Proteomics makes progress in cartilage and arthritis research. <i>Matrix Biology</i> , 2009, 28, 121-128.	3.6	24
102	Proteomic investigation of liver and white muscle in efficient and inefficient Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ): Fatty acid metabolism and protein turnover drive feed efficiency. <i>Aquaculture</i> , 2021, 542, 736855.	3.5	24
103	Changes in Expression Level of OsHKT1;5 Alters Activity of Membrane Transporters Involved in K <sup>+</sup> and Ca <sup>2+</sup> Acquisition and Homeostasis in Salinized Rice Roots. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4882.	4.1	23
104	Homology Modeling Identifies Crucial Amino-Acid Residues That Confer Higher Na <sup>+</sup> Transport Capacity of OsHKT1;5 from <i>Oryza coarctata</i> Roxb. <i>Plant and Cell Physiology</i> , 2020, 61, 1321-1334.	3.1	23
105	Function of NHX-type transporters in improving rice tolerance to aluminum stress and soil acidity. <i>Planta</i> , 2020, 251, 71.	3.2	23
106	Rewilding staple crops for the lost halophytism: Toward sustainability and profitability of agricultural production systems. <i>Molecular Plant</i> , 2022, 15, 45-64.	8.3	23
107	Comparing Kinetics of Xylem Ion Loading and Its Regulation in Halophytes and Glycophytes. <i>Plant and Cell Physiology</i> , 2020, 61, 403-415.	3.1	22
108	Sodium sequestration confers salinity tolerance in an ancestral wild rice. <i>Physiologia Plantarum</i> , 2021, 172, 1594-1608.	5.2	22

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109	Tissue tolerance mechanisms conferring salinity tolerance in a halophytic perennial species <i>Nitraria sibirica</i> Pall.. <i>Tree Physiology</i> , 2021, 41, 1264-1277.	3.1	22
110	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.	1.2	21
111	Modulation of Ion Transport Across Plant Membranes by Polyamines: Understanding Specific Modes of Action Under Stress. <i>Frontiers in Plant Science</i> , 2020, 11, 616077.	3.6	21
112	A robust method for proteomic characterization of mouse cartilage using solubility-based sequential fractionation and two-dimensional gel electrophoresis. <i>Matrix Biology</i> , 2008, 27, 709-712.	3.6	20
113	Linking ploidy level with salinity tolerance: NADPH-dependent $\text{H}_2\text{O}_2$ - $\text{Ca}^{2+}$ hub in the spotlight. <i>Journal of Experimental Botany</i> , 2019, 70, 1063-1067.	4.8	20
114	Salinity Effects on Guard Cell Proteome in <i>Chenopodium quinoa</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 428.	4.1	20
115	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.	5.8	20
116	Extracellular Spermine Triggers a Rapid Intracellular Phosphatidic Acid Response in Arabidopsis, Involving PLD $\beta$ Activation and Stimulating Ion Flux. <i>Frontiers in Plant Science</i> , 2019, 10, 601.	3.6	19
117	Evolutionary Significance of NHX Family and NHX1 in Salinity Stress Adaptation in the Genus <i>Oryza</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 2092.	4.1	19
118	A heme-binding protein produced by <i>Haemophilus haemolyticus</i> inhibits non-typeable <i>Haemophilus influenzae</i> . <i>Molecular Microbiology</i> , 2020, 113, 381-398.	2.5	18
119	Leaf mesophyll $\text{K}^+$ and $\text{Cl}^-$ 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.	3.4	18
120	Understanding the mechanistic basis of adaptation of perennial <i>Sarcocornia quinqueflora</i> species to soil salinity. <i>Physiologia Plantarum</i> , 2021, 172, 1997-2010.	5.2	18
121	Shotgun Proteomics as a Powerful Tool for the Study of the Proteomes of Plants, Their Pathogens, and Plant-Pathogen Interactions. <i>Proteomes</i> , 2022, 10, 5.	3.5	18
122	The extracellular matrix: an underexplored but important proteome. <i>Expert Review of Proteomics</i> , 2010, 7, 803-806.	3.0	17
123	Enhancing Fusarium crown rot resistance by pyramiding large-effect QTL in barley. <i>Molecular Breeding</i> , 2015, 35, 1.	2.1	16
124	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.	3.6	16
125	Developing a high-throughput phenotyping method for oxidative stress tolerance in barley roots. <i>Plant Methods</i> , 2019, 15, 12.	4.3	16
126	Distinct Evolutionary Origins of Intron Retention Splicing Events in NHX1 Antiporter Transcripts Relate to Sequence Specific Distinctions in <i>Oryza</i> Species. <i>Frontiers in Plant Science</i> , 2020, 11, 267.	3.6	16



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127	Sugar Beet ( <i>Beta vulgaris</i> ) Guard Cells Responses to Salinity Stress: A Proteomic Analysis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2331.	4.1	16
128	Understanding a Mechanistic Basis of ABA Involvement in Plant Adaptation to Soil Flooding: The Current Standing. <i>Plants</i> , 2021, 10, 1982.	3.5	16
129	Mitochondrial respiratory chain function promotes extracellular matrix integrity in cartilage. <i>Journal of Biological Chemistry</i> , 2021, 297, 101224.	3.4	16
130	Ionomics analysis provides new insights into the co-enrichment of cadmium and zinc in wheat grains. <i>Ecotoxicology and Environmental Safety</i> , 2021, 223, 112623.	6.0	16
131	Proteomic analysis of <i>Lactobacillus casei</i> GCRL163 cell-free extracts reveals a SecB homolog and other biomarkers of prolonged heat stress. <i>PLoS ONE</i> , 2018, 13, e0206317.	2.5	15
132	Extracellular silica nanocoat formed by layer-by-layer (LBL) self-assembly confers aluminum resistance in root border cells of pea ( <i>Pisum sativum</i> ). <i>Journal of Nanobiotechnology</i> , 2019, 17, 53.	9.1	15
133	Hydrogen-rich water promotes elongation of hypocotyls and roots in plants through mediating the level of endogenous gibberellin and auxin. <i>Functional Plant Biology</i> , 2020, 47, 771.	2.1	15
134	Evaluation of salt tolerance of oat cultivars and the mechanism of adaptation to salinity. <i>Journal of Plant Physiology</i> , 2022, 273, 153708.	3.5	15
135	Plants Grown in Parafilm-Wrapped Petri Dishes Are Stressed and Possess Altered Gene Expression Profile. <i>Frontiers in Plant Science</i> , 2019, 10, 637.	3.6	14
136	Candidate genes for salinity tolerance in barley revealed by RNA-seq analysis of near-isogenic lines. <i>Plant Growth Regulation</i> , 2020, 92, 571-582.	3.4	14
137	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.	3.2	14
138	Attached and Planktonic <i>Listeria monocytogenes</i> Global Proteomic Responses and Associated Influence of Strain Genetics and Temperature. <i>Journal of Proteome Research</i> , 2015, 14, 1161-1173.	3.7	13
139	Discovery of Biomarkers for Tasmanian Devil Cancer (DFTD) by Metabolic Profiling of Serum. <i>Journal of Proteome Research</i> , 2016, 15, 3827-3840.	3.7	13
140	Triploid Atlantic salmon shows similar performance, fatty acid composition and proteome response to diploids during early freshwater rearing. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2017, 22, 67-77.	1.0	13
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