

Sergey Shabala

List of Publications by Year in descending order

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Version: 2024-02-01

351
papers

27,162
citations

3531

90
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8630

146
g-index

359
all docs

359
docs citations

359
times ranked

14872
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Entangling the interaction between essential and nonessential nutrients: implications for global food security. , 2022, , 1-25. | | 0 |
| 2 | Nucleotide-binding leucine-rich repeat proteins: a missing link in controlling cell fate and plant adaptation to hostile environment?. <i>Journal of Experimental Botany</i> , 2022, 73, 631-635. | 4.8 | 1 |
| 3 | Cation transporters in cell fate determination and plant adaptive responses to a low-oxygen environment. <i>Journal of Experimental Botany</i> , 2022, 73, 636-645. | 4.8 | 7 |
| 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. | 4.2 | 2 |
| 5 | Genome-wide association study reveals a genomic region on 5AL for salinity tolerance in wheat. <i>Theoretical and Applied Genetics</i> , 2022, 135, 709-721. | 3.6 | 10 |
| 6 | 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 |
| 7 | Transcriptome analyses of quinoa leaves revealed critical function of epidermal bladder cells in salt stress acclimation. <i>Plant Stress</i> , 2022, 3, 100061. | 5.5 | 4 |
| 8 | 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. | 3.1 | 4 |
| 9 | Impacts of barley root cortical aerenchyma on growth, physiology, yield components, and grain quality under field waterlogging conditions. <i>Field Crops Research</i> , 2022, 279, 108461. | 5.1 | 9 |
| 10 | The role of NADPH oxidases in regulating leaf gas exchange and ion homeostasis in <i>Arabidopsis</i> plants under cadmium stress. <i>Journal of Hazardous Materials</i> , 2022, 429, 128217. | 12.4 | 11 |
| 11 | Application of omics technologies in single-type guard cell studies for understanding the mechanistic basis of plant adaptation to saline conditions. <i>Advances in Botanical Research</i> , 2022, , 249-270. | 1.1 | 2 |
| 12 | Signaling molecules and transcriptional reprogramming for stomata operation under salt stress. <i>Advances in Botanical Research</i> , 2022, , . | 1.1 | 0 |
| 13 | Comparative Analysis of Root Na ⁺ Relation under Salinity between <i>Oryza sativa</i> and <i>Oryza coarctata</i> . <i>Plants</i> , 2022, 11, 656. | 3.5 | 7 |
| 14 | Unravelling the physiological basis of salinity stress tolerance in cultivated and wild rice species. <i>Functional Plant Biology</i> , 2022, 49, 351-364. | 2.1 | 12 |
| 15 | Rethinking Rehabilitation of Salt-Affected Land: New Perspectives from Australian Experience. <i>Earth</i> , 2022, 3, 245-258. | 2.2 | 3 |
| 16 | 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 |
| 17 | Plant responses to heterogeneous salinity: agronomic relevance and research priorities. <i>Annals of Botany</i> , 2022, 129, 499-518. | 2.9 | 13 |
| 18 | Genome-Wide Association Study Reveals Marker Trait Associations (MTA) for Waterlogging-Triggered Adventitious Roots and Aerenchyma Formation in Barley. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3341. | 4.1 | 9 |

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|----|---|------|-----------|
| 19 | Multidimensional screening and evaluation of morpho-physiological indices for salinity stress tolerance in wheat. <i>Journal of Agronomy and Crop Science</i> , 2022, 208, 454-471. | 3.5 | 11 |
| 20 | pH-Dependent mitigation of aluminum toxicity in pea (<i>Pisum sativum</i>) roots by boron. <i>Plant Science</i> , 2022, 318, 111208. | 3.6 | 7 |
| 21 | A novel R3H protein, OsDIP1, confers ABA-mediated adaptation to drought and salinity stress in rice. <i>Plant and Soil</i> , 2022, 477, 501-519. | 3.7 | 1 |
| 22 | Tissue-Specific Responses of Cereals to Two Fusarium Diseases and Effects of Plant Height and Drought Stress on Their Susceptibility. <i>Agronomy</i> , 2022, 12, 1108. | 3.0 | 3 |
| 23 | Stalk cell polar ion transport provide for bladder-based salinity tolerance in <i>Chenopodium quinoa</i> . <i>New Phytologist</i> , 2022, 235, 1822-1835. | 7.3 | 8 |
| 24 | 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 |
| 25 | 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 |
| 26 | Jasmonate signaling and remodeling of cell wall metabolism induced by boron deficiency in pea shoots. <i>Environmental and Experimental Botany</i> , 2022, 201, 104947. | 4.2 | 14 |
| 27 | Genome wide association study and haplotype analysis reveals the role of HvHKT1;5 in potassium retention but not Na ⁺ exclusion in barley (<i>Hordeum vulgare</i> L.). <i>Environmental and Experimental Botany</i> , 2022, 201, 104973. | 4.2 | 2 |
| 28 | Root K ⁺ homeostasis and signalling as a determinant of salinity stress tolerance in cultivated and wild rice species. <i>Environmental and Experimental Botany</i> , 2022, 201, 104944. | 4.2 | 8 |
| 29 | Cell-type-specific H ⁺ -ATPase activity and antioxidant enzymes improve the <i>Echinacea purpurea</i> L. Moench tolerance to salinity stress at different NO ₃ ⁻ /NH ₄ ⁺ ratios. <i>Industrial Crops and Products</i> , 2022, 186, 115199. | 5.2 | 8 |
| 30 | Non-stomatal limitation of photosynthesis by soil salinity. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 791-825. | 12.8 | 129 |
| 31 | 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 |
| 32 | Salinity Effects on Guard Cell Proteome in <i>Chenopodium quinoa</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 428. | 4.1 | 20 |
| 33 | 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 |
| 34 | Sodium sequestration confers salinity tolerance in an ancestral wild rice. <i>Physiologia Plantarum</i> , 2021, 172, 1594-1608. | 5.2 | 22 |
| 35 | Biochemical and biophysical pH clamp controlling Net H ⁺ efflux across the plasma membrane of plant cells. <i>New Phytologist</i> , 2021, 230, 408-415. | 7.3 | 25 |
| 36 | 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 |

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|----|--|------|-----------|
| 37 | 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 |
| 38 | Early responses to salt stress in quinoa genotypes with opposite behavior. <i>Physiologia Plantarum</i> , 2021, 173, 1392-1420. | 5.2 | 10 |
| 39 | Improving Performance of Salt-Grown Crops by Exogenous Application of Plant Growth Regulators. <i>Biomolecules</i> , 2021, 11, 788. | 4.0 | 46 |
| 40 | Molecular mechanisms of salinity tolerance in rice. <i>Crop Journal</i> , 2021, 9, 506-520. | 5.2 | 91 |
| 41 | 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 |
| 42 | 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, 1513. | 3.5 | 9 |
| 43 | 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 |
| 44 | Early signalling processes in roots play a crucial role in the differential salt tolerance in contrasting <i>Chenopodium quinoa</i> accessions. <i>Journal of Experimental Botany</i> , 2021, , . | 4.8 | 4 |
| 45 | Tissue-specificity of ROS-induced K ⁺ and Ca ²⁺ 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. | 5.8 | 7 |
| 46 | 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 |
| 47 | Phosphoinositides: Emerging players in plant salinity stress tolerance. <i>Molecular Plant</i> , 2021, 14, 1973-1975. | 8.3 | 2 |
| 48 | Ion Transport in Salt Glands and Bladders in Halophyte Species. , 2021, , 1859-1876. | | 1 |
| 49 | Cell surface and intracellular auxin signalling for H ⁺ fluxes in root growth. <i>Nature</i> , 2021, 599, 273-277. | 27.8 | 128 |
| 50 | 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 |
| 51 | Effects of Potassium Availability on Growth and Development of Barley Cultivars. <i>Agronomy</i> , 2021, 11, 2269. | 3.0 | 6 |
| 52 | 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 |
| 53 | Mechanisms of Salinity Tolerance in Quinoa. , 2021, , 221-242. | | 0 |
| 54 | Doing "business as usual" comes with a cost: evaluating energy cost of maintaining plant intracellular K ⁺ homeostasis under saline conditions. <i>New Phytologist</i> , 2020, 225, 1097-1104. | 7.3 | 140 |

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|----|--|-----|-----------|
| 55 | Energy costs of salt tolerance in crop plants. <i>New Phytologist</i> , 2020, 225, 1072-1090. | 7.3 | 284 |
| 56 | The energy cost of the tonoplast futile sodium leak. <i>New Phytologist</i> , 2020, 225, 1105-1110. | 7.3 | 86 |
| 57 | Biochemical pH clamp: the forgotten resource in membrane bioenergetics. <i>New Phytologist</i> , 2020, 225, 37-47. | 7.3 | 33 |
| 58 | 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 |
| 59 | Stomatal traits as a determinant of superior salinity tolerance in wild barley. <i>Journal of Plant Physiology</i> , 2020, 245, 153108. | 3.5 | 41 |
| 60 | Phylogenetic Diversity and Physiological Roles of Plant Monovalent Cation/H ⁺ Antiporters. <i>Frontiers in Plant Science</i> , 2020, 11, 573564. | 3.6 | 45 |
| 61 | Ion Transport in Salt Glands and Bladders in Halophyte Species. , 2020, , 1-19. | | 1 |
| 62 | NADPH oxidases and the evolution of plant salinity tolerance. <i>Plant, Cell and Environment</i> , 2020, 43, 2957-2968. | 5.7 | 49 |
| 63 | What makes a plant science manuscript successful for publication?. <i>Functional Plant Biology</i> , 2020, 47, 1138. | 2.1 | 3 |
| 64 | Lipid kinases PIP5K7 and PIP5K9 are required for polyamine-triggered K ⁺ efflux in <i>Arabidopsis</i> roots. <i>Plant Journal</i> , 2020, 104, 416-432. | 5.7 | 28 |
| 65 | Changes in Expression Level of OsHKT1;5 Alters Activity of Membrane Transporters Involved in K ⁺ and Ca ²⁺ Acquisition and Homeostasis in Salinized Rice Roots. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4882. | 4.1 | 23 |
| 66 | Evidence for multiple receptors mediating RALF-triggered Ca ²⁺ signaling and proton pump inhibition. <i>Plant Journal</i> , 2020, 104, 433-446. | 5.7 | 40 |
| 67 | 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 |
| 68 | 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. | 3.4 | 18 |
| 69 | 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 |
| 70 | 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. | 3.1 | 23 |
| 71 | 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 |
| 72 | 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. | 4.2 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Mechanisms of Plant Responses and Adaptation to Soil Salinity. <i>Innovation(China)</i> , 2020, 1, 100017. | 9.1 | 387 |
| 74 | Developing and validating protocols for mechanical isolation of guard-cell enriched epidermal peels for omics studies. <i>Functional Plant Biology</i> , 2020, 47, 803. | 2.1 | 8 |
| 75 | Melatonin improves rice salinity stress tolerance by <i>NADPH</i> oxidase-dependent control of the plasma membrane K^{+} transporters and K^{+} homeostasis. <i>Plant, Cell and Environment</i> , 2020, 43, 2591-2605. | 5.7 | 93 |
| 76 | Prospects for the accelerated improvement of the resilient crop quinoa. <i>Journal of Experimental Botany</i> , 2020, 71, 5333-5347. | 4.8 | 49 |
| 77 | 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 |
| 78 | Function of NHX-type transporters in improving rice tolerance to aluminum stress and soil acidity. <i>Planta</i> , 2020, 251, 71. | 3.2 | 23 |
| 79 | 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 |
| 80 | GORK Channel: A Master Switch of Plant Metabolism?. <i>Trends in Plant Science</i> , 2020, 25, 434-445. | 8.8 | 73 |
| 81 | 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 |
| 82 | 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 |
| 83 | Microsensors in plant biology: in vivo visualization of inorganic analytes with high spatial and/or temporal resolution. <i>Journal of Experimental Botany</i> , 2020, 71, 3941-3954. | 4.8 | 24 |
| 84 | 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 |
| 85 | 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 |
| 86 | 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 |
| 87 | Neurotransmitters in Signalling and Adaptation to Salinity Stress in Plants. <i>Signaling and Communication in Plants</i> , 2020, , 49-73. | 0.7 | 6 |
| 88 | Linking sensitivity of photosystem II to UV-B with chloroplast ultrastructure and UV-B absorbing pigments contents in <i>A. thaliana</i> L. <i>phyAphyB</i> double mutants. <i>Plant Growth Regulation</i> , 2020, 91, 13-21. | 3.4 | 13 |
| 89 | Crop Halophytism: An Environmentally Sustainable Solution for Global Food Security. <i>Trends in Plant Science</i> , 2020, 25, 630-634. | 8.8 | 77 |
| 90 | 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 |

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|-----|--|-----|-----------|
| 91 | 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 |
| 92 | Control of xylem Na ⁺ 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 |
| 93 | An RNA-binding protein MUG13.4 interacts with AtAGO2 to modulate salinity tolerance in Arabidopsis. <i>Plant Science</i> , 2019, 288, 110218. | 3.6 | 9 |
| 94 | Genomic regions on chromosome 5H containing a novel QTL conferring barley yellow dwarf virus-PAV (BYDV-PAV) tolerance in barley. <i>Scientific Reports</i> , 2019, 9, 11298. | 3.3 | 11 |
| 95 | 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. | 4.8 | 73 |
| 96 | 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. | 4.8 | 90 |
| 97 | 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. | 3.4 | 18 |
| 98 | 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. | 3.6 | 67 |
| 99 | 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 |
| 100 | Extracellular Spermine Triggers a Rapid Intracellular Phosphatidic Acid Response in Arabidopsis, Involving PLD γ Activation and Stimulating Ion Flux. <i>Frontiers in Plant Science</i> , 2019, 10, 601. | 3.6 | 19 |
| 101 | Root vacuolar Na ⁺ sequestration but not exclusion from uptake correlates with barley salt tolerance. <i>Plant Journal</i> , 2019, 100, 55-67. | 5.7 | 80 |
| 102 | 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 |
| 103 | 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 |
| 104 | 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 |
| 105 | Wild barley shows a wider diversity in genes regulating heading date compared with cultivated barley. <i>Euphytica</i> , 2019, 215, 1. | 1.2 | 10 |
| 106 | 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 |
| 107 | Developing a high-throughput phenotyping method for oxidative stress tolerance in barley roots. <i>Plant Methods</i> , 2019, 15, 12. | 4.3 | 16 |
| 108 | Linking ploidy level with salinity tolerance: NADPH-dependent H_2O_2 and Ca^{2+} in the spotlight. <i>Journal of Experimental Botany</i> , 2019, 70, 1063-1067. | 4.8 | 20 |

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|-----|--|-----|-----------|
| 109 | Friend or Foe? Chloride Patterning in Halophytes. Trends in Plant Science, 2019, 24, 142-151. | 8.8 | 49 |
| 110 | The loss of RBOHD function modulates root adaptive responses to combined hypoxia and salinity stress in Arabidopsis. Environmental and Experimental Botany, 2019, 158, 125-135. | 4.2 | 29 |
| 111 | Understanding physiological and morphological traits contributing to drought tolerance in barley. Journal of Agronomy and Crop Science, 2019, 205, 129-140. | 3.5 | 34 |
| 112 | Targeting Redox Regulatory Mechanisms for Salinity Stress Tolerance in Crops. , 2018, , 213-234. | | 45 |
| 113 | Transcriptional stimulation of rate-limiting components of the autophagic pathway improves plant fitness. Journal of Experimental Botany, 2018, 69, 1415-1432. | 4.8 | 120 |
| 114 | The ability to regulate voltage-gated K ⁺ -permeable channels in the mature root epidermis is essential for waterlogging tolerance in barley. Journal of Experimental Botany, 2018, 69, 667-680. | 4.8 | 30 |
| 115 | Root respiratory burst oxidase homologue-dependent H ₂ O ₂ production confers salt tolerance on a grafted cucumber by controlling Na ⁺ exclusion and stomatal closure. Journal of Experimental Botany, 2018, 69, 3465-3476. | 4.8 | 96 |
| 116 | Potassium Uptake and Homeostasis in Plants Grown Under Hostile Environmental Conditions, and Its Regulation by CBL-Interacting Protein Kinases. , 2018, , 137-158. | | 0 |
| 117 | Mechanisms of cytosolic calcium elevation in plants: the role of ion channels, calcium extrusion systems and NADPH oxidase-mediated 'ROS-Ca ²⁺ Hub'. Functional Plant Biology, 2018, 45, 9. | 2.1 | 115 |
| 118 | A multiple near isogenic line (multi-NIL) RNA-seq approach to identify candidate genes underpinning QTL. Theoretical and Applied Genetics, 2018, 131, 613-624. | 3.6 | 30 |
| 119 | Understanding the Molecular Basis of Salt Sequestration in Epidermal Bladder Cells of Chenopodium quinoa. Current Biology, 2018, 28, 3075-3085.e7. | 3.9 | 98 |
| 120 | Fish gill damage by harmful microalgae newly explored by microelectrode ion flux estimation techniques. Harmful Algae, 2018, 80, 55-63. | 4.8 | 17 |
| 121 | Xylem Ion Loading and Its Implications for Plant Abiotic Stress Tolerance. Advances in Botanical Research, 2018, 87, 267-301. | 1.1 | 13 |
| 122 | Effects of exogenously-applied L-ascorbic acid on root expansive growth and viability of the border-like cells. Plant Signaling and Behavior, 2018, 13, e1514895. | 2.4 | 5 |
| 123 | Temporal changes in soil properties and physiological characteristics of Atriplex species and Medicago arborea grown in different soil types under saline irrigation. Plant and Soil, 2018, 432, 315-331. | 3.7 | 4 |
| 124 | Hydroxyl radical scavenging by cerium oxide nanoparticles improves <i>Arabidopsis</i> salinity tolerance by enhancing leaf mesophyll potassium retention. Environmental Science: Nano, 2018, 5, 1567-1583. | 4.3 | 147 |
| 125 | Boron Alleviates Aluminum Toxicity by Promoting Root Alkalinization in Transition Zone via Polar Auxin Transport. Plant Physiology, 2018, 177, 1254-1266. | 4.8 | 65 |
| 126 | Revealing mechanisms of salinity tissue tolerance in succulent halophytes: <i>A</i> case study for <i>Carpobrotus rossi</i> . Plant, Cell and Environment, 2018, 41, 2654-2667. | 5.7 | 33 |

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|-----|---|-----|-----------|
| 127 | Hydrogen Peroxide-Induced Root Ca ²⁺ and K ⁺ Fluxes Correlate with Salt Tolerance in Cereals: Towards the Cell-Based Phenotyping. <i>International Journal of Molecular Sciences</i> , 2018, 19, 702. | 4.1 | 49 |
| 128 | An Anion Conductance, the Essential Component of the Hydroxyl-Radical-Induced Ion Current in Plant Roots. <i>International Journal of Molecular Sciences</i> , 2018, 19, 897. | 4.1 | 14 |
| 129 | An early ABA-induced stomatal closure, Na ⁺ sequestration in leaf vein and K ⁺ 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 |
| 130 | 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. | 4.8 | 73 |
| 131 | Evaluation of salt tolerance and contributing ionic mechanism in nine Hami melon landraces in Xinjiang, China. <i>Scientia Horticulturae</i> , 2018, 237, 277-286. | 3.6 | 14 |
| 132 | Can highly saline irrigation water improve sodicity and alkalinity in sodic clayey subsoils?. <i>Journal of Soils and Sediments</i> , 2018, 18, 3290-3302. | 3.0 | 7 |
| 133 | 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. | 4.2 | 34 |
| 134 | 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 |
| 135 | <i>Piriformospora indica</i> improves salinity stress tolerance in <i>Zea mays</i> L. plants by regulating Na ⁺ and K ⁺ loading in root and allocating K ⁺ in shoot. <i>Plant Growth Regulation</i> , 2018, 86, 323-331. | 3.4 | 71 |
| 136 | Stomata in a saline world. <i>Current Opinion in Plant Biology</i> , 2018, 46, 87-95. | 7.1 | 111 |
| 137 | Calcium transport across plant membranes: mechanisms and functions. <i>New Phytologist</i> , 2018, 220, 49-69. | 7.3 | 289 |
| 138 | Reproductive Physiology of Halophytes: Current Standing. <i>Frontiers in Plant Science</i> , 2018, 9, 1954. | 3.6 | 94 |
| 139 | Agronomical, biochemical and histological response of resistant and susceptible wheat and barley under BYDV stress. <i>PeerJ</i> , 2018, 6, e4833. | 2.0 | 5 |
| 140 | Revealing the roles of GORK channels and NADPH oxidase in acclimation to hypoxia in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2017, 68, erw378. | 4.8 | 46 |
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