David E Salt

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Phosphorylated B6 vitamer deficiency in SALT OVERLY SENSITIVE 4 mutants compromises shoot and root development. Plant Physiology, 2022, 188, 220-240.	2.3	6
2	A two-step adaptive walk rewires nutrient transport in a challenging edaphic environment. Science Advances, 2022, 8, eabm9385.	4.7	6
3	Genome-wide association mapping for grain manganese in rice (Oryza sativa L.) using a multi-experiment approach. Heredity, 2021, 126, 505-520.	1.2	3
4	Coordination between microbiota and root endodermis supports plant mineral nutrient homeostasis. Science, 2021, 371, .	6.0	133
5	A Novel Signaling Pathway Required for Arabidopsis Endodermal Root Organization Shapes the Rhizosphere Microbiome. Plant and Cell Physiology, 2021, 62, 248-261.	1.5	17
6	Arabidopsis thaliana zinc accumulation in leaf trichomes is correlated with zinc concentration in leaves. Scientific Reports, 2021, 11, 5278.	1.6	21
7	1,135 ionomes reveal the global pattern of leaf and seed mineral nutrient and trace element diversity in <i>Arabidopsis thaliana</i> . Plant Journal, 2021, 106, 536-554.	2.8	26
8	Magnesium and calcium overaccumulate in the leaves of a <i>schengen3</i> mutant of <i>Brassica rapa</i> . Plant Physiology, 2021, 186, 1616-1631.	2.3	11
9	Two chemically distinct root lignin barriers control solute and water balance. Nature Communications, 2021, 12, 2320.	5.8	48
10	Adaptation to coastal soils through pleiotropic boosting of ion and stress hormone concentrations in wild <i>Arabidopsis thaliana</i> . New Phytologist, 2021, 232, 208-220.	3.5	9
11	Non-invasive hydrodynamic imaging in plant roots at cellular resolution. Nature Communications, 2021, 12, 4682.	5.8	19
12	Parallel adaptation in autopolyploid Arabidopsis arenosa is dominated by repeated recruitment of shared alleles. Nature Communications, 2021, 12, 4979.	5.8	22
13	Suberin plasticity to developmental and exogenous cues is regulated by a set of MYB transcription factors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	60
14	Redundant roles of four ZIP family members in zinc homeostasis and seed development in <i>Arabidopsis thaliana</i> . Plant Journal, 2021, 108, 1162-1173.	2.8	24
15	Univariate and Multivariate QTL Analyses Reveal Covariance Among Mineral Elements in the Rice Ionome. Frontiers in Genetics, 2021, 12, 638555.	1.1	10
16	Targeted expression of the arsenate reductase HAC1 identifies cell type specificity of arsenic metabolism and transport in plant roots. Journal of Experimental Botany, 2021, 72, 415-425.	2.4	12
17	Physiological roles of Casparian strips and suberin in the transport of water and solutes. New Phytologist, 2021, 232, 2295-2307.	3.5	33
18	Mutation in <i>OsCADT1</i> enhances cadmium tolerance and enriches selenium in rice grain. New Phytologist, 2020, 226, 838-850.	3.5	45

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19	Uclacyanin Proteins Are Required for Lignified Nanodomain Formation within Casparian Strips. Current Biology, 2020, 30, 4103-4111.e6.	1.8	38
20	Barley sodium content is regulated by natural variants of the Na+ transporter HvHKT1;5. Communications Biology, 2020, 3, 258.	2.0	21
21	Variation in the BrHMA3 coding region controls natural variation in cadmium accumulation in Brassica rapa vegetables. Journal of Experimental Botany, 2019, 70, 5865-5878.	2.4	36
22	Epigenetic regulation of sulfur homeostasis in plants. Journal of Experimental Botany, 2019, 70, 4171-4182.	2.4	28
23	Soil carbonate drives local adaptation in <scp><i>Arabidopsis thaliana</i></scp> . Plant, Cell and Environment, 2019, 42, 2384-2398.	2.8	29
24	Surveillance of cell wall diffusion barrier integrity modulates water and solute transport in plants. Scientific Reports, 2019, 9, 4227.	1.6	60
25	The Intensity of Manganese Deficiency Strongly Affects Root Endodermal Suberization and Ion Homeostasis. Plant Physiology, 2019, 181, 729-742.	2.3	35
26	Transcriptional plasticity buffers genetic variation in zinc homeostasis. Scientific Reports, 2019, 9, 19482.	1.6	23
27	Natural variation in a molybdate transporter controls grain molybdenum concentration in rice. New Phytologist, 2019, 221, 1983-1997.	3.5	44
28	Dissecting the components controlling rootâ€ŧoâ€shoot arsenic translocation in <i>Arabidopsis thaliana</i> . New Phytologist, 2018, 217, 206-218.	3.5	56
29	Fluctuating selection on migrant adaptive sodium transporter alleles in coastal <i>Arabidopsis thaliana</i> . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12443-E12452.	3.3	44
30	Genome-Wide Association Studies Reveal the Genetic Basis of Ionomic Variation in Rice. Plant Cell, 2018, 30, 2720-2740.	3.1	164
31	Root zone–specific localization of AMTs determines ammonium transport pathways and nitrogen allocation to shoots. PLoS Biology, 2018, 16, e2006024.	2.6	52
32	AtHMA4 Drives Natural Variation in Leaf Zn Concentration of Arabidopsis thaliana. Frontiers in Plant Science, 2018, 9, 270.	1.7	20
33	Elemental Profiling of Rice FOX Lines Leads to Characterization of a New Zn Plasma Membrane Transporter, OsZIP7. Frontiers in Plant Science, 2018, 9, 865.	1.7	41
34	Hidden variation in polyploid wheat drives local adaptation. Genome Research, 2018, 28, 1319-1332.	2.4	41
35	Role of LOTR1 in Nutrient Transport through Organization of Spatial Distribution of Root Endodermal Barriers. Current Biology, 2017, 27, 758-765.	1.8	98
36	BRUTUS and its paralogs, BTS LIKE1 and BTS LIKE2, encode important negative regulators of the iron deficiency response in Arabidopsis thaliana. Metallomics, 2017, 9, 876-890.	1.0	136

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37	Would the real arsenate reductase please stand up?. New Phytologist, 2017, 215, 926-928.	3.5	11
38	A new vesicle trafficking regulator CTL1 plays a crucial role in ion homeostasis. PLoS Biology, 2017, 15, e2002978.	2.6	44
39	Nuclear Localised MORE SULPHUR ACCUMULATION1 Epigenetically Regulates Sulphur Homeostasis in Arabidopsis thaliana. PLoS Genetics, 2016, 12, e1006298.	1.5	81
40	Borrowed alleles and convergence in serpentine adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8320-8325.	3.3	147
41	Plant Ionomics: From Elemental Profiling to Environmental Adaptation. Molecular Plant, 2016, 9, 787-797.	3.9	159
42	OsHAC1;1 and OsHAC1;2 Function as Arsenate Reductases and Regulate Arsenic Accumulation. Plant Physiology, 2016, 172, 1708-1719.	2.3	200
43	Phytochelatin Synthesis Promotes Leaf Zn Accumulation of <i>Arabidopsis thaliana</i> Plants Grown in Soil with Adequate Zn Supply and is Essential for Survival on Zn-Contaminated Soil. Plant and Cell Physiology, 2016, 57, 2342-2352.	1.5	47
44	Multi-element bioimaging of Arabidopsis thaliana roots. Plant Physiology, 2016, 172, pp.00770.2016.	2.3	38
45	A heavy metal P-type ATPase OsHMA4 prevents copper accumulation in rice grain. Nature Communications, 2016, 7, 12138.	5.8	178
46	A lossâ€ofâ€function allele of <i>OsHMA3</i> associated with high cadmium accumulation in shoots and grain of <i>Japonica</i> rice cultivars. Plant, Cell and Environment, 2016, 39, 1941-1954.	2.8	168
47	Worldwide Genetic Diversity for Mineral Element Concentrations in Rice Grain. Crop Science, 2015, 55, 294-311.	0.8	159
48	The MYB36 transcription factor orchestrates Casparian strip formation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10533-10538.	3.3	251
49	Salinity Is an Agent of Divergent Selection Driving Local Adaptation of Arabidopsis to Coastal Habitats. Plant Physiology, 2015, 168, 915-929.	2.3	44
50	The Multi-allelic Genetic Architecture of a Variance-Heterogeneity Locus for Molybdenum Concentration in Leaves Acts as a Source of Unexplained Additive Genetic Variance. PLoS Genetics, 2015, 11, e1005648.	1.5	73
51	A receptor-like kinase mutant with absent endodermal diffusion barrier displays selective nutrient homeostasis defects. ELife, 2014, 3, e03115.	2.8	203
52	Genome-wide Association Mapping Identifies a New Arsenate Reductase Enzyme Critical for Limiting Arsenic Accumulation in Plants. PLoS Biology, 2014, 12, e1002009.	2.6	227
53	Genome Wide Association Mapping of Grain Arsenic, Copper, Molybdenum and Zinc in Rice (Oryza) Tj ETQq1	0.784314 1.1	rgBT /Overloc
54	Variation in Sulfur and Selenium Accumulation Is Controlled by Naturally Occurring Isoforms of the Key Sulfur Assimilation Enzyme ADENOSINE 5â€2-PHOSPHOSULFATE REDUCTASE2 across the Arabidopsis Species Range Â. Plant Physiology, 2014, 166, 1593-1608.	2.3	64

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55	Mapping and validation of quantitative trait loci associated with concentrations of 16 elements in unmilled rice grain. Theoretical and Applied Genetics, 2014, 127, 137-165.	1.8	202
56	Single-Kernel Ionomic Profiles Are Highly Heritable Indicators of Genetic and Environmental Influences on Elemental Accumulation in Maize Grain (Zea mays). PLoS ONE, 2014, 9, e87628.	1.1	64
57	Polyploids Exhibit Higher Potassium Uptake and Salinity Tolerance in <i>Arabidopsis</i> . Science, 2013, 341, 658-659.	6.0	298
58	Dirigent domain-containing protein is part of the machinery required for formation of the lignin-based Casparian strip in the root. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14498-14503.	3.3	269
59	Large-Scale Plant Ionomics. Methods in Molecular Biology, 2013, 953, 255-276.	0.4	39
60	Elemental Concentrations in the Seed of Mutants and Natural Variants of Arabidopsis thaliana Grown under Varying Soil Conditions. PLoS ONE, 2013, 8, e63014.	1.1	19
61	Genome-Wide Association Studies Identify Heavy Metal ATPase3 as the Primary Determinant of Natural Variation in Leaf Cadmium in Arabidopsis thaliana. PLoS Genetics, 2012, 8, e1002923.	1.5	224
62	Allelic Heterogeneity and Trade-Off Shape Natural Variation for Response to Soil Micronutrient. PLoS Genetics, 2012, 8, e1002814.	1.5	35
63	High-resolution genome-wide scan of genes, gene-networks and cellular systems impacting the yeast ionome. BMC Genomics, 2012, 13, 623.	1.2	48
64	Biodiversity of Mineral Nutrient and Trace Element Accumulation in Arabidopsis thaliana. PLoS ONE, 2012, 7, e35121.	1.1	82
65	Knocking Out ACR2 Does Not Affect Arsenic Redox Status in Arabidopsis thaliana: Implications for As Detoxification and Accumulation in Plants. PLoS ONE, 2012, 7, e42408.	1.1	34
66	Variation in grain arsenic assessed in a diverse panel of rice (<i>Oryza sativa</i>) grown in multiple sites. New Phytologist, 2012, 193, 650-664.	3.5	126
67	<i>Arabidopsis</i> NPCC6/NaKR1 Is a Phloem Mobile Metal Binding Protein Necessary for Phloem Function and Root Meristem Maintenance Â. Plant Cell, 2011, 22, 3963-3979.	3.1	73
68	Sphingolipids in the Root Play an Important Role in Regulating the Leaf Ionome in <i>Arabidopsis thaliana</i> Â Â. Plant Cell, 2011, 23, 1061-1081.	3.1	111
69	Noise reduction in genome-wide perturbation screens using linear mixed-effect models. Bioinformatics, 2011, 27, 2173-2180.	1.8	10
70	Genome-wide association study of 107 phenotypes in Arabidopsis thaliana inbred lines. Nature, 2010, 465, 627-631.	13.7	1,651
71	A Coastal Cline in Sodium Accumulation in Arabidopsis thaliana Is Driven by Natural Variation of the Sodium Transporter AtHKT1;1. PLoS Genetics, 2010, 6, e1001193.	1.5	317
72	Natural Genetic Variation in Selected Populations of Arabidopsis thaliana Is Associated with Ionomic Differences. PLoS ONE, 2010, 5, e11081.	1.1	78

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73	The Ferroportin Metal Efflux Proteins Function in Iron and Cobalt Homeostasis in <i>Arabidopsis</i> Â Â. Plant Cell, 2009, 21, 3326-3338.	3.1	290
74	Natural Variation for Nutrient Use and Remobilization Efficiencies in Switchgrass. Bioenergy Research, 2009, 2, 257-266.	2.2	82
75	Genetic and physiological basis of adaptive salt tolerance divergence between coastal and inland <i>Mimulus guttatus</i> . New Phytologist, 2009, 183, 776-788.	3.5	154
76	Root Suberin Forms an Extracellular Barrier That Affects Water Relations and Mineral Nutrition in Arabidopsis. PLoS Genetics, 2009, 5, e1000492.	1.5	277
77	Ionomics and the Study of the Plant Ionome. Annual Review of Plant Biology, 2008, 59, 709-733.	8.6	480
78	Variation in Molybdenum Content Across Broadly Distributed Populations of Arabidopsis thaliana Is Controlled by a Mitochondrial Molybdenum Transporter (MOT1). PLoS Genetics, 2008, 4, e1000004.	1.5	233
79	Managing Biological Data using bdbms. , 2008, , .		16
80	Purdue Ionomics Information Management System. An Integrated Functional Genomics Platform Â. Plant Physiology, 2007, 143, 600-611.	2.3	130
81	A Novel Arsenate Reductase from the Arsenic Hyperaccumulating Fern Pteris vittata. Plant Physiology, 2006, 141, 1544-1554.	2.3	217
82	Natural Variants of AtHKT1 Enhance Na+ Accumulation in Two Wild Populations of Arabidopsis. PLoS Genetics, 2006, 2, e210.	1.5	279
83	Functional Association of Arabidopsis CAX1 and CAX3 Is Required for Normal Growth and Ion Homeostasis. Plant Physiology, 2005, 138, 2048-2060.	2.3	190
84	Genomic scale profiling of nutrient and trace elements in Arabidopsis thaliana. Nature Biotechnology, 2003, 21, 1215-1221.	9.4	407
85	Reduction and Coordination of Arsenic in Indian Mustard. Plant Physiology, 2000, 122, 1171-1178.	2.3	525