

Leon V Kochian

List of Publications by Year in descending order

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256
papers

31,333
citations

2962

96
h-index

5481

169
g-index

269
all docs

269
docs citations

269
times ranked

19045
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolutionary divergence in embryo and seed coat development of Uâ€™s Triangle Brassica species illustrated by a spatiotemporal transcriptome atlas. <i>New Phytologist</i> , 2022, 233, 30-51.	3.5	16
2	Sorghum root epigenetic landscape during limiting phosphorus conditions. <i>Plant Direct</i> , 2022, 6, .	0.8	5
3	Association mapping and genomic selection for sorghum adaptation to tropical soils of Brazil in a sorghum multiparental random mating population. <i>Theoretical and Applied Genetics</i> , 2021, 134, 295-312.	1.8	9
4	Developmental and genomic architecture of plant embryogenesis: from model plant to crops. <i>Plant Communications</i> , 2021, 2, 100136.	3.6	24
5	High affinity promoter binding of STOP1 is essential for early expression of novel aluminum-induced resistance genes <i>GDH1</i> and <i>GDH2</i> in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2021, 72, 2769-2789.	2.4	28
6	Alternative splicing dynamics and evolutionary divergence during embryogenesis in wheat species. <i>Plant Biotechnology Journal</i> , 2021, 19, 1624-1643.	4.1	23
7	Integrative Modeling of Gene Expression and Metabolic Networks of <i>Arabidopsis</i> Embryos for Identification of Seed Oil Causal Genes. <i>Frontiers in Plant Science</i> , 2021, 12, 642938.	1.7	1
8	Genetic architecture of root and shoot ionomes in rice (<i>Oryza sativa</i> L.). <i>Theoretical and Applied Genetics</i> , 2021, 134, 2613-2637.	1.8	9
9	Low phosphate represses histone deacetylase complex1 to regulate root system architecture remodeling in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2020, 225, 1732-1745.	3.5	26
10	Root Adaptation via Common Genetic Factors Conditioning Tolerance to Multiple Stresses for Crops Cultivated on Acidic Tropical Soils. <i>Frontiers in Plant Science</i> , 2020, 11, 565339.	1.7	19
11	A single-population GWAS identified <i>AtMATE</i> expression level polymorphism caused by promoter variants is associated with variation in aluminum tolerance in a local <i>Arabidopsis</i> population. <i>Plant Direct</i> , 2020, 4, e00250.	0.8	14
12	Aluminium is essential for root growth and development of tea plants (<i>Camellia sinensis</i>). <i>Journal of Integrative Plant Biology</i> , 2020, 62, 984-997.	4.1	69
13	The Transcriptional Landscape of Polyploid Wheats and Their Diploid Ancestors during Embryogenesis and Grain Development. <i>Plant Cell</i> , 2019, 31, 2888-2911.	3.1	57
14	A Multidrug and Toxin Efflux (MATE) Transporter Involved in Aluminum Resistance is Modulated by a CBL5/CIPK2 Calcium Sensor/Protein Kinase Complex. <i>Biophysical Journal</i> , 2019, 116, 169a-170a.	0.2	0
15	The genetic architecture of phosphorus efficiency in sorghum involves pleiotropic QTL for root morphology and grain yield under low phosphorus availability in the soil. <i>BMC Plant Biology</i> , 2019, 19, 87.	1.6	51
16	Structure Function Studies of a Plant Non Selective Cation Channel Involved in Drought Tolerance. <i>Biophysical Journal</i> , 2019, 116, 399a.	0.2	0
17	AhFRDL1-mediated citrate secretion contributes to adaptation to iron deficiency and aluminum stress in peanuts. <i>Journal of Experimental Botany</i> , 2019, 70, 2873-2886.	2.4	17
18	Adaption of Roots to Nitrogen Deficiency Revealed by 3D Quantification and Proteomic Analysis. <i>Plant Physiology</i> , 2019, 179, 329-347.	2.3	81

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19	Repeat variants for the SbMATE transporter protect sorghum roots from aluminum toxicity by transcriptional interplay in <i>cis</i> and <i>trans</i> . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 313-318.	3.3	38
20	Two citrate transporters coordinately regulate citrate secretion from rice bean root tip under aluminum stress. Plant, Cell and Environment, 2018, 41, 809-822.	2.8	45
21	Emerging Pleiotropic Mechanisms Underlying Aluminum Resistance and Phosphorus Acquisition on Acidic Soils. Frontiers in Plant Science, 2018, 9, 1420.	1.7	30
22	LeSPL-CNR negatively regulates Cd acquisition through repressing nitrate reductase-mediated nitric oxide production in tomato. Planta, 2018, 248, 893-907.	1.6	24
23	Exploiting sorghum genetic diversity for enhanced aluminum tolerance: Allele mining based on the AltSB locus. Scientific Reports, 2018, 8, 10094.	1.6	12
24	Genomic regions responsible for seminal and crown root lengths identified by 2D & 3D root system image analysis. BMC Genomics, 2018, 19, 273.	1.2	12
25	Loss of function mutation of the calcium sensor <i>CBL1</i> increases aluminum sensitivity in <i>Arabidopsis</i> . New Phytologist, 2017, 214, 830-841.	3.5	50
26	NIP1;2 is a plasma membrane-localized transporter mediating aluminum uptake, translocation, and tolerance in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5047-5052.	3.3	121
27	Arabidopsis Pollen Fertility Requires the Transcription Factors CITF1 and SPL7 That Regulate Copper Delivery to Anthers and Jasmonic Acid Synthesis. Plant Cell, 2017, 29, 3012-3029.	3.1	76
28	An Arabidopsis ABC Transporter Mediates Phosphate Deficiency-Induced Remodeling of Root Architecture by Modulating Iron Homeostasis in Roots. Molecular Plant, 2017, 10, 244-259.	3.9	133
29	Functional characterization and discovery of modulators of SbMATE, the agronomically important aluminium tolerance transporter from Sorghum bicolor. Scientific Reports, 2017, 7, 17996.	1.6	23
30	The role of root morphology and architecture in phosphorus acquisition: physiological, genetic, and molecular basis. , 2017, , 123-147.		8
31	Identification and characterization of suppressor mutants of stop1. BMC Plant Biology, 2017, 17, 128.	1.6	11
32	<i>ALUMINUM RESISTANCE TRANSCRIPTION FACTOR 1</i> (<i>ART1</i>) contributes to natural variation in aluminum resistance in diverse genetic backgrounds of rice (<i>O. Tj ETQq0 0 OogBT /Overlock 10 Tf</i>)		21
33	The ALMT Family of Organic Acid Transporters in Plants and Their Involvement in Detoxification and Nutrient Security. Frontiers in Plant Science, 2016, 7, 1488.	1.7	98
34	The Raf-like kinase ILK1 and the high affinity K ⁺ transporter HAK5 are required for Innate Immunity and Abiotic Stress Response. Plant Physiology, 2016, 171, pp.00035.2016.	2.3	59
35	Redefining "stress resistance genes", and why it matters. Journal of Experimental Botany, 2016, 67, 5588-5591.	2.4	7
36	Evolving technologies for growing, imaging and analyzing 3D root system architecture of crop plants. Journal of Integrative Plant Biology, 2016, 58, 230-241.	4.1	43

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37	Root architecture. <i>Journal of Integrative Plant Biology</i> , 2016, 58, 190-192.	4.1	19
38	Vascular-mediated signalling involved in early phosphate stress response in plants. <i>Nature Plants</i> , 2016, 2, 16033.	4.7	124
39	How high do ion fluxes go? A re-evaluation of the two-mechanism model of K ⁺ transport in plant roots. <i>Plant Science</i> , 2016, 243, 96-104.	1.7	21
40	Back to Acid Soil Fields: The Citrate Transporter SbMATE Is a Major Asset for Sustainable Grain Yield for Sorghum Cultivated on Acid Soils. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 475-484.	0.8	29
41	Quantitative iTRAQ Proteomics Revealed Possible Roles for Antioxidant Proteins in Sorghum Aluminum Tolerance. <i>Frontiers in Plant Science</i> , 2016, 7, 2043.	1.7	29
42	Plant Adaptation to Acid Soils: The Molecular Basis for Crop Aluminum Resistance. <i>Annual Review of Plant Biology</i> , 2015, 66, 571-598.	8.6	705
43	Identification of Black Bean (<i>Phaseolus vulgaris</i> L.) Polyphenols That Inhibit and Promote Iron Uptake by Caco-2 Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 5950-5956.	2.4	87
44	Photochemical properties in flag leaves of a super-high-yielding hybrid rice and a traditional hybrid rice (<i>Oryza sativa</i> L.) probed by chlorophyll a fluorescence transient. <i>Photosynthesis Research</i> , 2015, 126, 275-284.	1.6	22
45	Duplicate and Conquer: Multiple Homologs of <i>PHOSPHORUS-STARVATION TOLERANCE1</i> Enhance Phosphorus Acquisition and Sorghum Performance on Low-Phosphorus Soils. <i>Plant Physiology</i> , 2014, 166, 659-677.	2.3	117
46	OPT3 Is a Phloem-Specific Iron Transporter That Is Essential for Systemic Iron Signaling and Redistribution of Iron and Cadmium in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 2249-2264.	3.1	215
47	The roots of future rice harvests. <i>Rice</i> , 2014, 7, 29.	1.7	57
48	Genetic dissection of Al tolerance QTLs in the maize genome by high density SNP scan. <i>BMC Genomics</i> , 2014, 15, 153.	1.2	35
49	The role of aluminum sensing and signaling in plant aluminum resistance. <i>Journal of Integrative Plant Biology</i> , 2014, 56, 221-230.	4.1	153
50	Physiological and molecular analysis of aluminum tolerance in selected Kenyan maize lines. <i>Plant and Soil</i> , 2014, 377, 357-367.	1.8	14
51	Identification of a novel pathway involving a GATA transcription factor in yeast and possibly in plant Zn uptake and homeostasis. <i>Journal of Integrative Plant Biology</i> , 2014, 56, 271-280.	4.1	6
52	Genotypic variation of zinc and selenium concentration in grains of Brazilian wheat lines. <i>Plant Science</i> , 2014, 224, 27-35.	1.7	34
53	Root and shoot transcriptome analysis of two ecotypes of <i>Nocca caerulea</i> uncovers the role of <i>ramp1</i> in <i>Cd</i> hyperaccumulation. <i>Plant Journal</i> , 2014, 78, 398-410.	2.8	97
54	Phosphate transporters <i>OsPHT1</i> ;9 and <i>OsPHT1</i> ;10 are involved in phosphate uptake in rice. <i>Plant, Cell and Environment</i> , 2014, 37, 1159-1170.	2.8	135

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55	Plant mineral nutrient sensing and signaling. <i>Journal of Integrative Plant Biology</i> , 2014, 56, 190-191.	4.1	5
56	Natural variation underlies alterations in Nramp aluminum transporter (<i>NRAT1</i>) expression and function that play a key role in rice aluminum tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6503-6508.	3.3	160
57	Association Mapping Provides Insights into the Origin and the Fine Structure of the Sorghum Aluminum Tolerance Locus, <i>AltSB</i> . <i>PLoS ONE</i> , 2014, 9, e87438.	1.1	36
58	Targeted expression of <i>SbMATE</i> in the root distal transition zone is responsible for sorghum aluminum resistance. <i>Plant Journal</i> , 2013, 76, 297-307.	2.8	91
59	Functional, structural and phylogenetic analysis of domains underlying the <i>A</i> sensitivity of the aluminum-activated malate/anion transporter, <i>TaALMT1</i> . <i>Plant Journal</i> , 2013, 76, 766-780.	2.8	50
60	The CTR/COPT-dependent copper uptake and SPL7-dependent copper deficiency responses are required for basal cadmium tolerance in <i>A. thaliana</i> . <i>Metallomics</i> , 2013, 5, 1262.	1.0	78
61	High-throughput two-dimensional root system phenotyping platform facilitates genetic analysis of root growth and development. <i>Plant, Cell and Environment</i> , 2013, 36, 454-466.	2.8	184
62	Genotypic recognition and spatial responses by rice roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2670-2675.	3.3	124
63	Incomplete transfer of accessory loci influencing <i>SbMATE</i> expression underlies genetic background effects for aluminum tolerance in sorghum. <i>Plant Journal</i> , 2013, 73, 276-288.	2.8	31
64	Using membrane transporters to improve crops for sustainable food production. <i>Nature</i> , 2013, 497, 60-66.	13.7	440
65	Transport properties of members of the ZIP family in plants and their role in Zn and Mn homeostasis. <i>Journal of Experimental Botany</i> , 2013, 64, 369-381.	2.4	382
66	Proteomic analysis of chromoplasts from six crop species reveals insights into chromoplast function and development. <i>Journal of Experimental Botany</i> , 2013, 64, 949-961.	2.4	85
67	Low pH, Aluminum, and Phosphorus Coordinately Regulate Malate Exudation through <i>GmALMT1</i> to Improve Soybean Adaptation to Acid Soils. <i>Plant Physiology</i> , 2013, 161, 1347-1361.	2.3	210
68	Molecular and Physiological Analysis of Al ³⁺ and H ⁺ Rhizotoxicities at Moderately Acidic Conditions. <i>Plant Physiology</i> , 2013, 163, 180-192.	2.3	65
69	Aluminum tolerance in maize is associated with higher <i>MATE1</i> gene copy number. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5241-5246.	3.3	265
70	COPT6 Is a Plasma Membrane Transporter That Functions in Copper Homeostasis in Arabidopsis and Is a Novel Target of SQUAMOSA Promoter-binding Protein-like 7. <i>Journal of Biological Chemistry</i> , 2012, 287, 33252-33267.	1.6	86
71	Characterization of the high affinity Zn transporter from <i>Noccaea caerulescens</i> , <i>NcZNT1</i> , and dissection of its promoter for its role in Zn uptake and hyperaccumulation. <i>New Phytologist</i> , 2012, 195, 113-123.	3.5	57
72	Rooting for more phosphorus. <i>Nature</i> , 2012, 488, 466-467.	13.7	168

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73	A role for root morphology and related candidate genes in P acquisition efficiency in maize. <i>Functional Plant Biology</i> , 2012, 39, 925.	1.1	42
74	Envisioning the transition to a next-generation biofuels industry in the US Midwest. <i>Biofuels, Bioproducts and Biorefining</i> , 2012, 6, 376-386.	1.9	26
75	Maize ZmALMT2 is a root anion transporter that mediates constitutive root malate efflux. <i>Plant, Cell and Environment</i> , 2012, 35, 1185-1200.	2.8	74
76	A promoter swap strategy between the <i>AtALMT</i> and <i>AtMATE</i> genes increased Arabidopsis aluminum resistance and improved carbon-use efficiency for aluminum resistance. <i>Plant Journal</i> , 2012, 71, 327-337.	2.8	70
77	Biofortified maize (<i>Zea mays</i> L.) provides more bioavailable iron than standard maize: Studies in poultry (<i>Gallus gallus</i>) and an in vitro digestion/Caco-2 model. <i>FASEB Journal</i> , 2012, 26, 1019.1.	0.2	0
78	Three-Dimensional Root Phenotyping with a Novel Imaging and Software Platform. <i>Plant Physiology</i> , 2011, 156, 455-465.	2.3	380
79	Genetic and Physiological Analysis of Iron Biofortification in Maize Kernels. <i>PLoS ONE</i> , 2011, 6, e20429.	1.1	77
80	A <i>de novo</i> synthesis citrate transporter, <i>Vigna umbellata</i> multidrug and toxic compound extrusion, implicates in Al-activated citrate efflux in rice bean (<i>Vigna umbellata</i>) root apex. <i>Plant, Cell and Environment</i> , 2011, 34, 2138-2148.	2.8	84
81	Elevated expression of <i>TcHMA3</i> plays a key role in the extreme Cd tolerance in a Cd-hyperaccumulating ecotype of <i>Thlaspi caerulescens</i> . <i>Plant Journal</i> , 2011, 66, 852-862.	2.8	209
82	Iron biofortification of maize grain. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2011, 9, 327-329.	0.4	20
83	Genetic Architecture of Aluminum Tolerance in Rice (<i>Oryza sativa</i>) Determined through Genome-Wide Association Analysis and QTL Mapping. <i>PLoS Genetics</i> , 2011, 7, e1002221.	1.5	334
84	The Relationship between Population Structure and Aluminum Tolerance in Cultivated Sorghum. <i>PLoS ONE</i> , 2011, 6, e20830.	1.1	29
85	GEOCHEM-EZ: a chemical speciation program with greater power and flexibility. <i>Plant and Soil</i> , 2010, 330, 207-214.	1.8	189
86	Genetic variation for root architecture, nutrient uptake and mycorrhizal colonisation in <i>Medicago truncatula</i> accessions. <i>Plant and Soil</i> , 2010, 336, 113-128.	1.8	13
87	Transcriptional regulation of metal transport genes and mineral nutrition during acclimatization to cadmium and zinc in the Cd/Zn hyperaccumulator, <i>Thlaspi caerulescens</i> (Ganges population). <i>New Phytologist</i> , 2010, 185, 114-129.	3.5	170
88	Two functionally distinct members of the MATE (multi-drug and toxic compound extrusion) family of transporters potentially underlie two major aluminum tolerance QTLs in maize. <i>Plant Journal</i> , 2010, 61, 728-740.	2.8	266
89	Association and Linkage Analysis of Aluminum Tolerance Genes in Maize. <i>PLoS ONE</i> , 2010, 5, e9958.	1.1	91
90	Development of a Novel Aluminum Tolerance Phenotyping Platform Used for Comparisons of Cereal Aluminum Tolerance and Investigations into Rice Aluminum Tolerance Mechanisms. <i>Plant Physiology</i> , 2010, 153, 1678-1691.	2.3	199

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91	Iron bioavailability from maize-based diets fed to iron deficient broiler chickens. <i>FASEB Journal</i> , 2010, 24, 208.8.	0.2	1
92	Drosophila ABC Transporter, DmHMT-1, Confers Tolerance to Cadmium. <i>Journal of Biological Chemistry</i> , 2009, 284, 354-362.	1.6	54
93	Involvement of a Broccoli COQ5 Methyltransferase in the Production of Volatile Selenium Compounds. <i>Plant Physiology</i> , 2009, 151, 528-540.	2.3	25
94	Generation of Arabidopsis Mutants by Heterologous Expression of a Full-Length cDNA Library from Tomato Fruits. <i>Plant Molecular Biology Reporter</i> , 2009, 27, 454-461.	1.0	5
95	Aluminum-activated citrate and malate transporters from the MATE and ALMT families function independently to confer Arabidopsis aluminum tolerance. <i>Plant Journal</i> , 2009, 57, 389-399.	2.8	442
96	Phosphorylation at S384 regulates the activity of the TaALMT1 malate transporter that underlies aluminum resistance in wheat. <i>Plant Journal</i> , 2009, 60, 411-423.	2.8	54
97	Agricultural Approaches to Improving Phytonutrient Content in Plants: An Overview. <i>Nutrition Reviews</i> , 2009, 57, 13-18.	2.6	25
98	Maize Al Tolerance. , 2009, , 367-380.		2
99	Not all ALMT1-type transporters mediate aluminum-activated organic acid responses: the case of <i>ZmALMT1</i> an anion-selective transporter. <i>Plant Journal</i> , 2008, 53, 352-367.	2.8	97
100	Transcriptional profiling of aluminum toxicity and tolerance responses in maize roots. <i>New Phytologist</i> , 2008, 179, 116-128.	3.5	129
101	Novel Properties of the Wheat Aluminum Tolerance Organic Acid Transporter (TaALMT1) Revealed by Electrophysiological Characterization in <i>Xenopus</i> Oocytes: Functional and Structural Implications. <i>Plant Physiology</i> , 2008, 147, 2131-2146.	2.3	99
102	Investigation of Heavy Metal Hyperaccumulation at the Cellular Level: Development and Characterization of <i>Thlaspi caerulescens</i> Suspension Cell Lines. <i>Plant Physiology</i> , 2008, 147, 2006-2016.	2.3	25
103	Investigating Heavy-metal Hyperaccumulation using <i>Thlaspi caerulescens</i> as a Model System. <i>Annals of Botany</i> , 2008, 102, 3-13.	1.4	275
104	The Cauliflower Or Gene Encodes a DnaJ Cysteine-Rich Domain-Containing Protein That Mediates High Levels of β -Carotene Accumulation. <i>Plant Cell</i> , 2007, 18, 3594-3605.	3.1	485
105	Characterization of <i>AtALMT1</i> Expression in Aluminum-Inducible Malate Release and Its Role for Rhizotoxic Stress Tolerance in Arabidopsis. <i>Plant Physiology</i> , 2007, 145, 843-852.	2.3	184
106	A native Zn/Cd pumping P1B ATPase from natural overexpression in a hyperaccumulator plant. <i>Biochemical and Biophysical Research Communications</i> , 2007, 363, 51-56.	1.0	26
107	Biochemical and molecular characterization of the homocysteine S-methyltransferase from broccoli (<i>Brassica oleracea</i> var. <i>italica</i>). <i>Phytochemistry</i> , 2007, 68, 1112-1119.	1.4	46
108	A gene in the multidrug and toxic compound extrusion (MATE) family confers aluminum tolerance in sorghum. <i>Nature Genetics</i> , 2007, 39, 1156-1161.	9.4	665

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109	A method for cellular localization of gene expression via quantitative in situ hybridization in plants. <i>Plant Journal</i> , 2007, 50, 159-187.	2.8	40
110	Plant Cd ²⁺ and Zn ²⁺ status effects on root and shoot heavy metal accumulation in <i>Thlaspi caerulescens</i> . <i>New Phytologist</i> , 2007, 175, 51-58.	3.5	90
111	Genetic diversity for aluminum tolerance in sorghum. <i>Theoretical and Applied Genetics</i> , 2007, 114, 863-876.	1.8	69
112	Characterization of cadmium uptake, translocation and storage in near-isogenic lines of durum wheat that differ in grain cadmium concentration. <i>New Phytologist</i> , 2006, 172, 261-271.	3.5	91
113	Spatial coordination of aluminium uptake, production of reactive oxygen species, callose production and wall rigidification in maize roots. <i>Plant, Cell and Environment</i> , 2006, 29, 1309-1318.	2.8	237
114	Phosphorus and Aluminum Interactions in Soybean in Relation to Aluminum Tolerance. Exudation of Specific Organic Acids from Different Regions of the Intact Root System. <i>Plant Physiology</i> , 2006, 141, 674-684.	2.3	231
115	AtALMT1, which encodes a malate transporter, is identified as one of several genes critical for aluminum tolerance in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9738-9743.	3.3	509
116	Genetic and Biochemical Analysis of Iron Bioavailability in Maize. <i>FASEB Journal</i> , 2006, 20, A623.	0.2	2
117	Zinc effects on cadmium accumulation and partitioning in near-isogenic lines of durum wheat that differ in grain cadmium concentration. <i>New Phytologist</i> , 2005, 167, 391-401.	3.5	101
118	The Physiology, Genetics and Molecular Biology of Plant Aluminum Resistance and Toxicity. <i>Plant and Soil</i> , 2005, 274, 175-195.	1.8	597
119	Aluminum Resistance in Maize Cannot Be Solely Explained by Root Organic Acid Exudation. A Comparative Physiological Study. <i>Plant Physiology</i> , 2005, 137, 231-241.	2.3	146
120	The physiology, genetics and molecular biology of plant aluminum resistance and toxicity. <i>Plant Ecophysiology</i> , 2005, , 175-195.	1.5	65
121	Molecular and Biochemical Characterization of the Selenocysteine Se-Methyltransferase Gene and Se-Methylselenocysteine Synthesis in Broccoli. <i>Plant Physiology</i> , 2005, 138, 409-420.	2.3	144
122	Molecular characterization and mapping of <i>ALMT1</i> , the aluminium-tolerance gene of bread wheat (<i>Triticum aestivum</i> L.). <i>Genome</i> , 2005, 48, 781-791.	0.9	149
123	Focus on Plant Nutrition. <i>Plant Physiology</i> , 2004, 136, 2437-2437.	2.3	7
124	Comparative Mapping of a Major Aluminum Tolerance Gene in Sorghum and Other Species in the Poaceae. <i>Genetics</i> , 2004, 167, 1905-1914.	1.2	132
125	Identification of <i>Thlaspi caerulescens</i> Genes That May Be Involved in Heavy Metal Hyperaccumulation and Tolerance. Characterization of a Novel Heavy Metal Transporting ATPase. <i>Plant Physiology</i> , 2004, 136, 3814-3823.	2.3	294
126	Genotypic variation in common bean in response to zinc deficiency in calcareous soil. <i>Plant and Soil</i> , 2004, 259, 71-83.	1.8	59

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127	HOW DO CROP PLANTS TOLERATE ACID SOILS? MECHANISMS OF ALUMINUM TOLERANCE AND PHOSPHOROUS EFFICIENCY. <i>Annual Review of Plant Biology</i> , 2004, 55, 459-493.	8.6	1,460
128	The role of shoot-localized processes in the mechanism of Zn efficiency in common bean. <i>Planta</i> , 2004, 218, 704-711.	1.6	29
129	Kinetic properties of a micronutrient transporter from <i>Pisum sativum</i> indicate a primary function in Fe uptake from the soil. <i>Planta</i> , 2004, 218, 784-792.	1.6	119
130	Mechanisms of arsenic hyperaccumulation in <i>Pteris</i> species: root As influx and translocation. <i>Planta</i> , 2004, 219, 1080-1088.	1.6	125
131	Phytofiltration of Arsenic from Drinking Water Using Arsenic-Hyperaccumulating Ferns. <i>Environmental Science & Technology</i> , 2004, 38, 3412-3417.	4.6	108
132	Two tomato non-symbiotic haemoglobin genes are differentially expressed in response to diverse changes in mineral nutrient status. <i>Plant, Cell and Environment</i> , 2003, 26, 673-680.	2.8	29
133	How do some plants tolerate low levels of soil zinc? Mechanisms of zinc efficiency in crop plants. <i>New Phytologist</i> , 2003, 159, 341-350.	3.5	229
134	Shoot biomass and zinc/cadmium uptake for hyperaccumulator and non-accumulator <i>Thlaspi</i> species in response to growth on a zinc-deficient calcareous soil. <i>Plant Science</i> , 2003, 164, 1095-1101.	1.7	56
135	Identification and Characterization of Aluminum Tolerance Loci in <i>Arabidopsis (Landsberg erecta Å—) Tj ETQq1</i> 1 0.784314 rgBT /Over <i>Plant Physiology</i> , 2003, 132, 936-948.	2.3	147
136	Zinc Efficiency Is Correlated with Enhanced Expression and Activity of Zinc-Requiring Enzymes in Wheat. <i>Plant Physiology</i> , 2003, 131, 595-602.	2.3	145
137	Differences in Whole-Cell and Single-Channel Ion Currents across the Plasma Membrane of Mesophyll Cells from Two Closely Related <i>Thlaspi</i> Species. <i>Plant Physiology</i> , 2003, 131, 583-594.	2.3	21
138	Uptake and Release of Cesium ¹³⁷ by Five Plant Species as Influenced by Soil Amendments in Field Experiments. <i>Journal of Environmental Quality</i> , 2003, 32, 2272-2279.	1.0	34
139	Development and allele diversity of microsatellite markers linked to the aluminium tolerance gene <i>Alp</i> in barley. <i>Australian Journal of Agricultural Research</i> , 2003, 54, 1315.	1.5	32
140	The Physiology and Biophysics of an Aluminum Tolerance Mechanism Based on Root Citrate Exudation in Maize. <i>Plant Physiology</i> , 2002, 129, 1194-1206.	2.3	186
141	Rapid Induction of Regulatory and Transporter Genes in Response to Phosphorus, Potassium, and Iron Deficiencies in Tomato Roots. Evidence for Cross Talk and Root/Rhizosphere-Mediated Signals. <i>Plant Physiology</i> , 2002, 130, 1361-1370.	2.3	266
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