

# Leon V Kochian

## 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.

255  
papers

25,920  
citations

89  
h-index

156  
g-index

269  
ext. papers

28,512  
ext. citations

6.7  
avg, IF

6.91  
L-index

#	Paper	IF	Citations
255	Evolutionary divergence in embryo and seed coat development of UB Triangle Brassica species illustrated by a spatiotemporal transcriptome atlas. <i>New Phytologist</i> , <b>2022</b> , 233, 30-51	9.8	0
254	Alternative splicing dynamics and evolutionary divergence during embryogenesis in wheat species. <i>Plant Biotechnology Journal</i> , <b>2021</b> , 19, 1624-1643	11.6	2
253	Integrative Modeling of Gene Expression and Metabolic Networks of Embryos for Identification of Seed Oil Causal Genes. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 642938	6.2	1
252	Genetic architecture of root and shoot ionomes in rice ( <i>Oryza sativa</i> L.). <i>Theoretical and Applied Genetics</i> , <b>2021</b> , 134, 2613-2637	6	1
251	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> , <b>2021</b> , 134, 295-312 <sup>6</sup>	6	4
250	Developmental and genomic architecture of plant embryogenesis: from model plant to crops. <i>Plant Communications</i> , <b>2021</b> , 2, 100136	9	3
249	High affinity promoter binding of STOP1 is essential for early expression of novel aluminum-induced resistance genes GDH1 and GDH2 in Arabidopsis. <i>Journal of Experimental Botany</i> , <b>2021</b> , 72, 2769-2789	7	10
248	Aluminium is essential for root growth and development of tea plants ( <i>Camellia sinensis</i> ). <i>Journal of Integrative Plant Biology</i> , <b>2020</b> , 62, 984-997	8.3	26
247	Low phosphate represses histone deacetylase complex1 to regulate root system architecture remodeling in Arabidopsis. <i>New Phytologist</i> , <b>2020</b> , 225, 1732-1745	9.8	6
246	Root Adaptation via Common Genetic Factors Conditioning Tolerance to Multiple Stresses for Crops Cultivated on Acidic Tropical Soils. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 565339	6.2	7
245	A single-population GWAS identified expression level polymorphism caused by promoter variants is associated with variation in aluminum tolerance in a local population. <i>Plant Direct</i> , <b>2020</b> , 4, e00250	3.3	4
244	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> , <b>2019</b> , 19, 87	5.3	21
243	AhFRDL1-mediated citrate secretion contributes to adaptation to iron deficiency and aluminum stress in peanuts. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 2873-2886	7	11
242	The Transcriptional Landscape of Polyploid Wheats and Their Diploid Ancestors during Embryogenesis and Grain Development. <i>Plant Cell</i> , <b>2019</b> , 31, 2888-2911	11.6	25
241	Adaption of Roots to Nitrogen Deficiency Revealed by 3D Quantification and Proteomic Analysis. <i>Plant Physiology</i> , <b>2019</b> , 179, 329-347	6.6	38
240	Repeat variants for the SbMATE transporter protect sorghum roots from aluminum toxicity by transcriptional interplay in and. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 313-318	11.5	25
239	Two citrate transporters coordinately regulate citrate secretion from rice bean root tip under aluminum stress. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 809-822	8.4	39

238	Mechanisms of Micronutrient Uptake and Translocation in Plants. <i>Soil Science Society of America Book Series</i> , <b>2018</b> , 229-296		29
237	LeSPL-CNR negatively regulates Cd acquisition through repressing nitrate reductase-mediated nitric oxide production in tomato. <i>Planta</i> , <b>2018</b> , 248, 893-907	4.7	12
236	Exploiting sorghum genetic diversity for enhanced aluminum tolerance: Allele mining based on the Alt locus. <i>Scientific Reports</i> , <b>2018</b> , 8, 10094	4.9	8
235	Genomic regions responsible for seminal and crown root lengths identified by 2D & 3D root system image analysis. <i>BMC Genomics</i> , <b>2018</b> , 19, 273	4.5	10
234	Emerging Pleiotropic Mechanisms Underlying Aluminum Resistance and Phosphorus Acquisition on Acidic Soils. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 1420	6.2	16
233	Loss-of-function mutation of the calcium sensor CBL1 increases aluminum sensitivity in Arabidopsis. <i>New Phytologist</i> , <b>2017</b> , 214, 830-841	9.8	28
232	NIP1;2 is a plasma membrane-localized transporter mediating aluminum uptake, translocation, and tolerance in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 5047-5052	11.5	84
231	Identification and characterization of suppressor mutants of stop1. <i>BMC Plant Biology</i> , <b>2017</b> , 17, 128	5.3	9
230	( ) contributes to natural variation in aluminum resistance in diverse genetic backgrounds of rice ( ). <i>Plant Direct</i> , <b>2017</b> , 1, e00014	3.3	14
229	Arabidopsis Pollen Fertility Requires the Transcription Factors CITF1 and SPL7 That Regulate Copper Delivery to Anthers and Jasmonic Acid Synthesis. <i>Plant Cell</i> , <b>2017</b> , 29, 3012-3029	11.6	39
228	An Arabidopsis ABC Transporter Mediates Phosphate Deficiency-Induced Remodeling of Root Architecture by Modulating Iron Homeostasis in Roots. <i>Molecular Plant</i> , <b>2017</b> , 10, 244-259	14.4	79
227	Functional characterization and discovery of modulators of SbMATE, the agronomically important aluminium tolerance transporter from Sorghum bicolor. <i>Scientific Reports</i> , <b>2017</b> , 7, 17996	4.9	17
226	The role of root morphology and architecture in phosphorus acquisition: physiological, genetic, and molecular basis <b>2017</b> , 123-147		7
225	Vascular-mediated signalling involved in early phosphate stress response in plants. <i>Nature Plants</i> , <b>2016</b> , 2, 16033	11.5	80
224	How high do ion fluxes go? A re-evaluation of the two-mechanism model of K(+) transport in plant roots. <i>Plant Science</i> , <b>2016</b> , 243, 96-104	5.3	18
223	Quantitative iTRAQ Proteomics Revealed Possible Roles for Antioxidant Proteins in Sorghum Aluminum Tolerance. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 2043	6.2	21
222	The ALMT Family of Organic Acid Transporters in Plants and Their Involvement in Detoxification and Nutrient Security. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 1488	6.2	65
221	The Raf-like Kinase ILK1 and the High Affinity K+ Transporter HAK5 Are Required for Innate Immunity and Abiotic Stress Response. <i>Plant Physiology</i> , <b>2016</b> , 171, 1470-84	6.6	38

220	Redefining stress resistance genes, and why it matters. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 5588-5591	3
219	Evolving technologies for growing, imaging and analyzing 3D root system architecture of crop plants. <i>Journal of Integrative Plant Biology</i> , <b>2016</b> , 58, 230-41	8.3 30
218	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> , <b>2015</b> , 63, 5950-6	5.7 71
217	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> , <b>2015</b> , 126, 275-84	3.7 14
216	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> , <b>2015</b> , 6, 475-84	3.2 16
215	Retraction Note: High bioavailability iron maize ( <i>Zea mays</i> L.) developed through molecular breeding provides more absorbable iron in vitro (Caco-2 model) and in vivo ( <i>Gallus gallus</i> ). <i>Nutrition Journal</i> , <b>2015</b> , 14, 126	4.3 1
214	Plant Adaptation to Acid Soils: The Molecular Basis for Crop Aluminum Resistance. <i>Annual Review of Plant Biology</i> , <b>2015</b> , 66, 571-98	30.7 474
213	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> , <b>2014</b> , 56, 271-80	8.3 3
212	Genotypic variation of zinc and selenium concentration in grains of Brazilian wheat lines. <i>Plant Science</i> , <b>2014</b> , 224, 27-35	5.3 22
211	Root and shoot transcriptome analysis of two ecotypes of <i>Nocca caerulea</i> uncovers the role of Nramp1 in Cd hyperaccumulation. <i>Plant Journal</i> , <b>2014</b> , 78, 398-410	6.9 71
210	Phosphate transporters OsPHT1;9 and OsPHT1;10 are involved in phosphate uptake in rice. <i>Plant, Cell and Environment</i> , <b>2014</b> , 37, 1159-70	8.4 91
209	Molecular and physiological mechanisms of plant tolerance to toxic metals <b>2014</b> , 179-201	0
208	Natural variation underlies alterations in Nramp aluminum transporter (NRAT1) 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> , <b>2014</b> , 111, 6503-8	11.5 104
207	Duplicate and conquer: multiple homologs of PHOSPHORUS-STARVATION TOLERANCE1 enhance phosphorus acquisition and sorghum performance on low-phosphorus soils. <i>Plant Physiology</i> , <b>2014</b> , 166, 659-77	6.6 83
206	OPT3 Is a Phloem-Specific Iron Transporter That Is Essential for Systemic Iron Signaling and Redistribution of Iron and Cadmium in Arabidopsis. <i>Plant Cell</i> , <b>2014</b> , 26, 2249-2264	11.6 152
205	The roots of future rice harvests. <i>Rice</i> , <b>2014</b> , 7, 29	5.8 38
204	Genetic dissection of Al tolerance QTLs in the maize genome by high density SNP scan. <i>BMC Genomics</i> , <b>2014</b> , 15, 153	4.5 23
203	The role of aluminum sensing and signaling in plant aluminum resistance. <i>Journal of Integrative Plant Biology</i> , <b>2014</b> , 56, 221-30	8.3 105

202	Physiological and molecular analysis of aluminum tolerance in selected Kenyan maize lines. <i>Plant and Soil</i> , <b>2014</b> , 377, 357-367	4.2	13
201	Association mapping provides insights into the origin and the fine structure of the sorghum aluminum tolerance locus, AltSB. <i>PLoS ONE</i> , <b>2014</b> , 9, e87438	3.7	34
200	Targeted expression of SbMATE in the root distal transition zone is responsible for sorghum aluminum resistance. <i>Plant Journal</i> , <b>2013</b> , 76, 297-307	6.9	63
199	Functional, structural and phylogenetic analysis of domains underlying the Al sensitivity of the aluminum-activated malate/anion transporter, TaALMT1. <i>Plant Journal</i> , <b>2013</b> , 76, 766-80	6.9	43
198	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> , <b>2013</b> , 5, 1262-75	4.5	54
197	High-throughput two-dimensional root system phenotyping platform facilitates genetic analysis of root growth and development. <i>Plant, Cell and Environment</i> , <b>2013</b> , 36, 454-66	8.4	133
196	Genotypic recognition and spatial responses by rice roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 2670-5	11.5	103
195	Incomplete transfer of accessory loci influencing SbMATE expression underlies genetic background effects for aluminum tolerance in sorghum. <i>Plant Journal</i> , <b>2013</b> , 73, 276-88	6.9	27
194	High bioavailability iron maize ( <i>Zea mays</i> L.) developed through molecular breeding provides more absorbable iron in vitro (Caco-2 model) and in vivo ( <i>Gallus gallus</i> ). <i>Nutrition Journal</i> , <b>2013</b> , 12, 3	4.3	40
193	Using membrane transporters to improve crops for sustainable food production. <i>Nature</i> , <b>2013</b> , 497, 60-65	50.4	336
192	Aluminum Tolerance in Sorghum and Maize <b>2013</b> , 83-98		1
191	Transport properties of members of the ZIP family in plants and their role in Zn and Mn homeostasis. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 369-81	7	277
190	Proteomic analysis of chromoplasts from six crop species reveals insights into chromoplast function and development. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 949-61	7	73
189	Low pH, aluminum, and phosphorus coordinately regulate malate exudation through GmALMT1 to improve soybean adaptation to acid soils. <i>Plant Physiology</i> , <b>2013</b> , 161, 1347-61	6.6	153
188	Molecular and physiological analysis of Al <sup>3+</sup> and H <sup>+</sup> rhizotoxicities at moderately acidic conditions. <i>Plant Physiology</i> , <b>2013</b> , 163, 180-92	6.6	49
187	Aluminum tolerance in maize is associated with higher MATE1 gene copy number. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 5241-6	11.5	199
186	A promoter-swap strategy between the AtALMT and AtMATE genes increased Arabidopsis aluminum resistance and improved carbon-use efficiency for aluminum resistance. <i>Plant Journal</i> , <b>2012</b> , 71, 327-37	6.9	46
185	Characterization of the high affinity Zn transporter from <i>Noccaea caerulescens</i> , NcZNT1, and dissection of its promoter for its role in Zn uptake and hyperaccumulation. <i>New Phytologist</i> , <b>2012</b> , 195, 113-23	9.8	49

184	A role for root morphology and related candidate genes in P acquisition efficiency in maize. <i>Functional Plant Biology</i> , <b>2012</b> , 39, 925-935	2.7	36
183	Envisioning the transition to a next-generation biofuels industry in the US Midwest. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2012</b> , 6, 376-386	5.3	18
182	Maize ZmALMT2 is a root anion transporter that mediates constitutive root malate efflux. <i>Plant, Cell and Environment</i> , <b>2012</b> , 35, 1185-200	8.4	55
181	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> , <b>2012</b> , 287, 33252-67	5.4	66
180	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> , <b>2012</b> , 26, 1019.1	0.9	
179	Genetic and physiological analysis of iron biofortification in maize kernels. <i>PLoS ONE</i> , <b>2011</b> , 6, e20429	3.7	59
178	A de novo 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> , <b>2011</b> , 34, 2138-48	8.4	74
177	Elevated expression of TcHMA3 plays a key role in the extreme Cd tolerance in a Cd-hyperaccumulating ecotype of <i>Thlaspi caerulescens</i> . <i>Plant Journal</i> , <b>2011</b> , 66, 852-62	6.9	170
176	Three-dimensional root phenotyping with a novel imaging and software platform. <i>Plant Physiology</i> , <b>2011</b> , 156, 455-65	6.6	306
175	Iron biofortification of maize grain. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , <b>2011</b> , 9, 327-329	1	12
174	Genetic architecture of aluminum tolerance in rice ( <i>Oryza sativa</i> ) determined through genome-wide association analysis and QTL mapping. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002221	6	278
173	The relationship between population structure and aluminum tolerance in cultivated sorghum. <i>PLoS ONE</i> , <b>2011</b> , 6, e20830	3.7	27
172	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> , <b>2010</b> , 185, 114-29	9.8	146
171	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> , <b>2010</b> , 61, 728-40	6.9	222
170	Association and linkage analysis of aluminum tolerance genes in maize. <i>PLoS ONE</i> , <b>2010</b> , 5, e9958	3.7	75
169	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> , <b>2010</b> , 153, 1678-91	6.6	143
168	GEOCHEM-EZ: a chemical speciation program with greater power and flexibility. <i>Plant and Soil</i> , <b>2010</b> , 330, 207-214	4.2	157
167	Genetic variation for root architecture, nutrient uptake and mycorrhizal colonisation in <i>Medicago truncatula</i> accessions. <i>Plant and Soil</i> , <b>2010</b> , 336, 113-128	4.2	11

166	Iron bioavailability from maize-based diets fed to iron deficient broiler chickens. <i>FASEB Journal</i> , <b>2010</b> , 24, 208.8	0.9	1
165	Drosophila ABC transporter, DmHMT-1, confers tolerance to cadmium. DmHMT-1 and its yeast homolog, SpHMT-1, are not essential for vacuolar phytochelatin sequestration. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 354-362	5.4	50
164	Involvement of a broccoli COQ5 methyltransferase in the production of volatile selenium compounds. <i>Plant Physiology</i> , <b>2009</b> , 151, 528-40	6.6	20
163	Generation of Arabidopsis Mutants by Heterologous Expression of a Full-Length cDNA Library from Tomato Fruits. <i>Plant Molecular Biology Reporter</i> , <b>2009</b> , 27, 454-461	1.7	5
162	Aluminum-activated citrate and malate transporters from the MATE and ALMT families function independently to confer Arabidopsis aluminum tolerance. <i>Plant Journal</i> , <b>2009</b> , 57, 389-99	6.9	360
161	Phosphorylation at S384 regulates the activity of the TaALMT1 malate transporter that underlies aluminum resistance in wheat. <i>Plant Journal</i> , <b>2009</b> , 60, 411-23	6.9	46
160	Maize Al Tolerance <b>2009</b> , 367-380		2
159	Transcriptional profiling of aluminum toxicity and tolerance responses in maize roots. <i>New Phytologist</i> , <b>2008</b> , 179, 116-128	9.8	111
158	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> , <b>2008</b> , 147, 2131-46	6.6	89
157	Investigation of heavy metal hyperaccumulation at the cellular level: development and characterization of <i>Thlaspi caerulescens</i> suspension cell lines. <i>Plant Physiology</i> , <b>2008</b> , 147, 2006-16	6.6	23
156	Investigating heavy-metal hyperaccumulation using <i>Thlaspi caerulescens</i> as a model system. <i>Annals of Botany</i> , <b>2008</b> , 102, 3-13	4.1	241
155	Not all ALMT1-type transporters mediate aluminum-activated organic acid responses: the case of ZmALMT1 - an anion-selective transporter. <i>Plant Journal</i> , <b>2008</b> , 53, 352-67	6.9	83
154	Biochemical and molecular characterization of the homocysteine S-methyltransferase from broccoli ( <i>Brassica oleracea</i> var. <i>italica</i> ). <i>Phytochemistry</i> , <b>2007</b> , 68, 1112-9	4	39
153	A gene in the multidrug and toxic compound extrusion (MATE) family confers aluminum tolerance in sorghum. <i>Nature Genetics</i> , <b>2007</b> , 39, 1156-61	36.3	561
152	A method for cellular localization of gene expression via quantitative in situ hybridization in plants. <i>Plant Journal</i> , <b>2007</b> , 50, 159-75	6.9	36
151	Plant Cd <sup>2+</sup> and Zn <sup>2+</sup> status effects on root and shoot heavy metal accumulation in <i>Thlaspi caerulescens</i> . <i>New Phytologist</i> , <b>2007</b> , 175, 51-58	9.8	73
150	Genetic diversity for aluminum tolerance in sorghum. <i>Theoretical and Applied Genetics</i> , <b>2007</b> , 114, 863-766		57
149	Characterization of AtALMT1 expression in aluminum-inducible malate release and its role for rhizotoxic stress tolerance in Arabidopsis. <i>Plant Physiology</i> , <b>2007</b> , 145, 843-52	6.6	150

148	A native Zn/Cd pumping P(1B) ATPase from natural overexpression in a hyperaccumulator plant. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 363, 51-6	3.4	25
147	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> , <b>2006</b> , 141, 674-84	6.6	183
146	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> , <b>2006</b> , 103, 9738-43	11.5	420
145	The cauliflower Or gene encodes a DnaJ cysteine-rich domain-containing protein that mediates high levels of beta-carotene accumulation. <i>Plant Cell</i> , <b>2006</b> , 18, 3594-605	11.6	392
144	Characterization of cadmium uptake, translocation and storage in near-isogenic lines of durum wheat that differ in grain cadmium concentration. <i>New Phytologist</i> , <b>2006</b> , 172, 261-71	9.8	79
143	Spatial coordination of aluminium uptake, production of reactive oxygen species, callose production and wall rigidification in maize roots. <i>Plant, Cell and Environment</i> , <b>2006</b> , 29, 1309-18	8.4	205
142	Genetic and Biochemical Analysis of Iron Bioavailability in Maize. <i>FASEB Journal</i> , <b>2006</b> , 20, A623	0.9	2
141	Molecular and biochemical characterization of the selenocysteine Se-methyltransferase gene and Se-methylselenocysteine synthesis in broccoli. <i>Plant Physiology</i> , <b>2005</b> , 138, 409-20	6.6	123
140	Molecular characterization and mapping of ALMT1, the aluminium-tolerance gene of bread wheat ( <i>Triticum aestivum</i> L.). <i>Genome</i> , <b>2005</b> , 48, 781-91	2.4	141
139	Zinc effects on cadmium accumulation and partitioning in near-isogenic lines of durum wheat that differ in grain cadmium concentration. <i>New Phytologist</i> , <b>2005</b> , 167, 391-401	9.8	89
138	The Physiology, Genetics and Molecular Biology of Plant Aluminum Resistance and Toxicity. <i>Plant and Soil</i> , <b>2005</b> , 274, 175-195	4.2	530
137	Aluminum resistance in maize cannot be solely explained by root organic acid exudation. A comparative physiological study. <i>Plant Physiology</i> , <b>2005</b> , 137, 231-41	6.6	127
136	The physiology, genetics and molecular biology of plant aluminum resistance and toxicity. <i>Plant Ecophysiology</i> , <b>2005</b> , 175-195		24
135	Focus on plant nutrition. <i>Plant Physiology</i> , <b>2004</b> , 136, 2437	6.6	7
134	Comparative mapping of a major aluminum tolerance gene in sorghum and other species in the poaceae. <i>Genetics</i> , <b>2004</b> , 167, 1905-14	4	114
133	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> , <b>2004</b> , 136, 3814-23	6.6	265
132	Genotypic variation in common bean in response to zinc deficiency in calcareous soil. <i>Plant and Soil</i> , <b>2004</b> , 259, 71-83	4.2	48
131	How do crop plants tolerate acid soils? Mechanisms of aluminum tolerance and phosphorous efficiency. <i>Annual Review of Plant Biology</i> , <b>2004</b> , 55, 459-93	30.7	1220



130	The role of shoot-localized processes in the mechanism of Zn efficiency in common bean. <i>Planta</i> , <b>2004</b> , 218, 704-11	4.7	25
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> , <b>2004</b> , 218, 784-92	4.7	102
128	Mechanisms of arsenic hyperaccumulation in <i>Pteris</i> species: root As influx and translocation. <i>Planta</i> , <b>2004</b> , 219, 1080-8	4.7	110
127	Phytofiltration of arsenic from drinking water using arsenic-hyperaccumulating ferns. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 3412-7	10.3	95
126	Uptake and release of cesium-137 by five plant species as influenced by soil amendments in field experiments. <i>Journal of Environmental Quality</i> , <b>2003</b> , 32, 2272-9	3.4	33
125	Two tomato non-symbiotic haemoglobin genes are differentially expressed in response to diverse changes in mineral nutrient status. <i>Plant, Cell and Environment</i> , <b>2003</b> , 26, 673-680	8.4	24
124	How do some plants tolerate low levels of soil zinc? Mechanisms of zinc efficiency in crop plants. <i>New Phytologist</i> , <b>2003</b> , 159, 341-350	9.8	184
123	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> , <b>2003</b> , 164, 1095-1101	5.3	46
122	Identification and characterization of aluminum tolerance loci in <i>Arabidopsis</i> ( <i>Landsberg erecta</i> x <i>Columbia</i> ) by quantitative trait locus mapping. A physiologically simple but genetically complex trait. <i>Plant Physiology</i> , <b>2003</b> , 132, 936-48	6.6	134
121	Zinc efficiency is correlated with enhanced expression and activity of zinc-requiring enzymes in wheat. <i>Plant Physiology</i> , <b>2003</b> , 131, 595-602	6.6	125
120	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> , <b>2003</b> , 131, 583-94	6.6	21
119	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> , <b>2003</b> , 54, 1315		30
118	Uptake of cesium-137 and strontium-90 from contaminated soil by three plant species; application to phytoremediation. <i>Journal of Environmental Quality</i> , <b>2002</b> , 31, 904-9	3.4	43
117	Measurement of thiol-containing amino acids and phytochelatin (PC2) via capillary electrophoresis with laser-induced fluorescence detection. <i>Electrophoresis</i> , <b>2002</b> , 23, 81-7	3.6	27
116	Phytochelatin synthesis is not responsible for Cd tolerance in the Zn/Cd hyperaccumulator <i>Thlaspi caerulescens</i> (J. & C. Presl). <i>Planta</i> , <b>2002</b> , 214, 635-40	4.7	176
115	Transport interactions between cadmium and zinc in roots of bread and durum wheat seedlings. <i>Physiologia Plantarum</i> , <b>2002</b> , 116, 73-78	4.6	241
114	Mechanisms of metal resistance in plants: aluminum and heavy metals. <i>Plant and Soil</i> , <b>2002</b> , 247, 109-119.2		61
113	The physiology and biophysics of an aluminum tolerance mechanism based on root citrate exudation in maize. <i>Plant Physiology</i> , <b>2002</b> , 129, 1194-206	6.6	170

112	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> , <b>2002</b> , 130, 1361-70	6.6	239
111	Trehalose accumulation in rice plants confers high tolerance levels to different abiotic stresses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 15898-903	11.5	953
110	H <sup>+</sup> Currents around Plant Roots <b>2002</b> ,		1
109	Uptake of Cesium-137 and Strontium-90 from Contaminated Soil by Three Plant Species; Application to Phytoremediation. <i>Journal of Environmental Quality</i> , <b>2002</b> , 31, 904	3.4	46
108	Physiological Genetics of Aluminum Tolerance in the Wheat Cultivar Atlas 66. <i>Crop Science</i> , <b>2002</b> , 42, 1541-1546	2.4	50
107	Mechanisms of metal resistance in plants: aluminum and heavy metals <b>2002</b> , 109-119		2
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104	Uranium Speciation, Plant Uptake, and Phytoremediation. <i>Practice Periodical of Hazardous, Toxic and Radioactive Waste Management</i> , <b>2001</b> , 5, 130-135		12
103	High- and low-affinity zinc transport systems and their possible role in zinc efficiency in bread wheat. <i>Plant Physiology</i> , <b>2001</b> , 125, 456-63	6.6	104
102	Zinc Phytoextraction in <i>Thlaspi caerulescens</i> . <i>International Journal of Phytoremediation</i> , <b>2001</b> , 3, 129-144	3.9	10
101	Nitrate-induced genes in tomato roots. Array analysis reveals novel genes that may play a role in nitrogen nutrition. <i>Plant Physiology</i> , <b>2001</b> , 127, 345-59	6.6	209
100	Identification of RFLP Markers Linked to the Barley Aluminum Tolerance Gene Alp. <i>Crop Science</i> , <b>2000</b> , 40, 778-782	2.4	84
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98	Molecular physiology of zinc transport in the Zn hyperaccumulator <i>Thlaspi caerulescens</i> . <i>Journal of Experimental Botany</i> , <b>2000</b> , 51, 71-79	7	249
97	Uptake and retranslocation of leaf-applied cadmium (109Cd) in diploid, tetraploid and hexaploid wheats. <i>Journal of Experimental Botany</i> , <b>2000</b> , 51, 221-6	7	76
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94	Agricultural approaches to improving phytonutrient content in plants: an overview. <i>Nutrition Reviews</i> , <b>1999</b> , 57, S13-8	6.4	17
93	Early copper-induced leakage of K(+) from Arabidopsis seedlings is mediated by ion channels and coupled to citrate efflux. <i>Plant Physiology</i> , <b>1999</b> , 121, 1375-82	6.6	131
92	Effects of nutrient solution zinc activity on net uptake, translocation, and root export of cadmium and zinc by separated sections of intact durum wheat ( <i>Triticum turgidum</i> L. var durum) seedling roots. <i>Plant and Soil</i> , <b>1999</b> , 208, 243-250	4.2	55
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90	Selectivity of Liquid Membrane Cadmium Microelectrodes Based on the Ionophore N,N,N',N'-Tetrabutyl-3,6-dioxaoctanedithioamide. <i>Electroanalysis</i> , <b>1998</b> , 10, 937-941	3	21
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88	Phytoextraction of Zinc by Oat ( <i>Avena sativa</i> ), Barley ( <i>Hordeum vulgare</i> ), and Indian Mustard ( <i>Brassica juncea</i> ). <i>Environmental Science &amp; Technology</i> , <b>1998</b> , 32, 802-806	10.3	266
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30	Transport Interactions between Paraquat and Polyamines in Roots of Intact Maize Seedlings. <i>Plant Physiology</i> , <b>1992</b> , 99, 1400-5	6.6	59
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9	Mechanisms of Ion Transport in Plants: K+ as an Example <b>1988</b> , 219-232		4
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1	Sorghum Root Epigenetic Landscape During Limiting Phosphorus Conditions		1