

Herbert J Kronzucker

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139
papers

9,269
citations

50
h-index

95
g-index

149
ext. papers

11,051
ext. citations

6.3
avg, IF

6.51
L-index

#	Paper	IF	Citations
139	NH ₄ ⁺ toxicity in higher plants: a critical review. <i>Journal of Plant Physiology</i> , 2002 , 159, 567-584	3.6	1131
138	Futile transmembrane NH ₄ ⁺ cycling: a cellular hypothesis to explain ammonium toxicity in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 4255-8	11.5	403
137	Conifer root discrimination against soil nitrate and the ecology of forest succession. <i>Nature</i> , 1997 , 385, 59-61	50.4	374
136	The regulation of nitrate and ammonium transport systems in plants. <i>Journal of Experimental Botany</i> , 2002 , 53, 855-64	7	311
135	Sodium transport in plants: a critical review. <i>New Phytologist</i> , 2011 , 189, 54-81	9.8	288
134	The controversies of silicon's role in plant biology. <i>New Phytologist</i> , 2019 , 221, 67-85	9.8	251
133	Nitrate-ammonium synergism in rice. A subcellular flux analysis. <i>Plant Physiology</i> , 1999 , 119, 1041-6	6.6	222
132	Nitrogen transformations in modern agriculture and the role of biological nitrification inhibition. <i>Nature Plants</i> , 2017 , 3, 17074	11.5	211
131	AtAMT1 gene expression and NH ₄ ⁺ uptake in roots of <i>Arabidopsis thaliana</i> : evidence for regulation by root glutamine levels. <i>Plant Journal</i> , 1999 , 19, 143-52	6.9	202
130	The potential for nitrification and nitrate uptake in the rhizosphere of wetland plants: a modelling study. <i>Annals of Botany</i> , 2005 , 96, 639-46	4.1	190
129	The Role of Silicon in Higher Plants under Salinity and Drought Stress. <i>Frontiers in Plant Science</i> , 2016 , 7, 1072	6.2	187
128	Sodium as nutrient and toxicant. <i>Plant and Soil</i> , 2013 , 369, 1-23	4.2	181
127	K ⁺ transport in plants: physiology and molecular biology. <i>Journal of Plant Physiology</i> , 2009 , 166, 447-66	3.6	176
126	Ecological significance and complexity of N-source preference in plants. <i>Annals of Botany</i> , 2013 , 112, 957-63	4.1	172
125	How Plant Root Exudates Shape the Nitrogen Cycle. <i>Trends in Plant Science</i> , 2017 , 22, 661-673	13.1	166
124	Cellular mechanisms of potassium transport in plants. <i>Physiologia Plantarum</i> , 2008 , 133, 637-50	4.6	163
123	Futile cycling at the plasma membrane: a hallmark of low-affinity nutrient transport. <i>Trends in Plant Science</i> , 2006 , 11, 529-34	13.1	159

122	Ammonium stress in Arabidopsis: signaling, genetic loci, and physiological targets. <i>Trends in Plant Science</i> , 2014 , 19, 107-114	13.1	147
121	Energy costs of salt tolerance in crop plants. <i>New Phytologist</i> , 2020 , 225, 1072-1090	9.8	144
120	Comparative kinetic analysis of ammonium and nitrate acquisition by tropical lowland rice: implications for rice cultivation and yield potential. <i>New Phytologist</i> , 2000 , 145, 471-476	9.8	141
119	Kinetics of NO ₃ ⁻ Influx in Spruce. <i>Plant Physiology</i> , 1995 , 109, 319-326	6.6	141
118	Nitrogen acquisition, PEP carboxylase, and cellular pH homeostasis: new views on old paradigms. <i>Plant, Cell and Environment</i> , 2005 , 28, 1396-1409	8.4	122
117	Inhibition of nitrate uptake by ammonium in barley. Analysis Of component fluxes. <i>Plant Physiology</i> , 1999 , 120, 283-92	6.6	122
116	Root growth inhibition by NH ₄ ⁽⁺⁾ in Arabidopsis is mediated by the root tip and is linked to NH ₄ ⁽⁺⁾ efflux and GMPase activity. <i>Plant, Cell and Environment</i> , 2010 , 33, 1529-42	8.4	115
115	Optimization of ammonium acquisition and metabolism by potassium in rice (<i>Oryza sativa</i> L. cv. IR-72). <i>Plant, Cell and Environment</i> , 2010 , 33, 23-34	8.4	100
114	Biological nitrification inhibition by rice root exudates and its relationship with nitrogen-use efficiency. <i>New Phytologist</i> , 2016 , 212, 646-656	9.8	92
113	Nitrogen transport in plants, with an emphasis on the regulation of fluxes to match plant demand. <i>Journal of Plant Nutrition and Soil Science</i> , 2001 , 164, 199-207	2.3	84
112	Futile Na ⁺ cycling at the root plasma membrane in rice (<i>Oryza sativa</i> L.): kinetics, energetics, and relationship to salinity tolerance. <i>Journal of Experimental Botany</i> , 2008 , 59, 4109-17	7	78
111	Rapid ammonia gas transport accounts for futile transmembrane cycling under NH ₃ /NH ₄ ⁺ toxicity in plant roots. <i>Plant Physiology</i> , 2013 , 163, 1859-67	6.6	76
110	Compartmentation and flux characteristics of ammonium in spruce. <i>Planta</i> , 1995 , 196, 691-698	4.7	76
109	Alleviation of rapid, futile ammonium cycling at the plasma membrane by potassium reveals K ⁺ -sensitive and -insensitive components of NH ₄ ⁺ transport. <i>Journal of Experimental Botany</i> , 2008 , 59, 303-13	7	74
108	Root ammonium transport efficiency as a determinant in forest colonization patterns: an hypothesis. <i>Physiologia Plantarum</i> , 2003 , 117, 164-170	4.6	74
107	Induction of nitrate uptake and nitrate reductase activity in trembling aspen and lodgepole pine. <i>Plant, Cell and Environment</i> , 1998 , 21, 1039-1046	8.4	73
106	Compartmentation and flux characteristics of nitrate in spruce. <i>Planta</i> , 1995 , 196, 674-682	4.7	72
105	Shoot-supplied ammonium targets the root auxin influx carrier AUX1 and inhibits lateral root emergence in Arabidopsis. <i>Plant, Cell and Environment</i> , 2011 , 34, 933-946	8.4	70

104	NH ₄ ⁺ -stimulated and -inhibited components of K ⁺ transport in rice (<i>Oryza sativa</i> L.). <i>Journal of Experimental Botany</i> , 2008 , 59, 3415-23	7	69
103	Sodium-potassium synergism in <i>Theobroma cacao</i> : stimulation of photosynthesis, water-use efficiency and mineral nutrition. <i>Physiologia Plantarum</i> , 2012 , 146, 350-62	4.6	67
102	The nitrogen-potassium intersection: membranes, metabolism, and mechanism. <i>Plant, Cell and Environment</i> , 2017 , 40, 2029-2041	8.4	66
101	A comparative kinetic analysis of nitrate and ammonium influx in two early-successional tree species of temperate and boreal forest ecosystems. <i>Plant, Cell and Environment</i> , 2000 , 23, 321-328	8.4	66
100	<i>Arabidopsis</i> plastid AMOS1/EGY1 integrates abscisic acid signaling to regulate global gene expression response to ammonium stress. <i>Plant Physiology</i> , 2012 , 160, 2040-51	6.6	65
99	The cytosolic Na ⁺ : K ⁺ ratio does not explain salinity-induced growth impairment in barley: a dual-tracer study using ⁴² K ⁺ and ²⁴ Na ⁺ . <i>Plant, Cell and Environment</i> , 2006 , 29, 2228-37	8.4	64
98	A comparative study of fluxes and compartmentation of nitrate and ammonium in early-successional tree species. <i>Plant, Cell and Environment</i> , 1999 , 22, 821-830	8.4	64
97	Cellular and whole-plant chloride dynamics in barley: insights into chloride-nitrogen interactions and salinity responses. <i>Planta</i> , 2004 , 218, 615-22	4.7	60
96	Nitrogen use efficiency (NUE) in rice links to NH ₄ ⁺ toxicity and futile NH ₄ ⁺ cycling in roots. <i>Plant and Soil</i> , 2013 , 369, 351-363	4.2	59
95	Effects of Hypoxia on ¹³ NH ₄ ⁺ Fluxes in Rice Roots. Kinetics and compartmental analysis Kinetics and Compartmental Analysis. <i>Plant Physiology</i> , 1998 , 116, 581-7	6.6	59
94	Nitrate induction in spruce: an approach using compartmental analysis. <i>Planta</i> , 1995 , 196, 683-690	4.7	57
93	Cytosolic potassium homeostasis revisited: ⁴² K-tracer analysis in <i>Hordeum vulgare</i> L. reveals set-point variations in [K ⁺]. <i>Planta</i> , 2003 , 217, 540-6	4.7	55
92	Membrane fluxes, bypass flows, and sodium stress in rice: the influence of silicon. <i>Journal of Experimental Botany</i> , 2018 , 69, 1679-1692	7	54
91	⁴² K analysis of sodium-induced potassium efflux in barley: mechanism and relevance to salt tolerance. <i>New Phytologist</i> , 2010 , 186, 373-84	9.8	53
90	The intersection of nitrogen nutrition and water use in plants: new paths toward improved crop productivity. <i>Journal of Experimental Botany</i> , 2020 , 71, 4452-4468	7	50
89	Capacity and plasticity of potassium channels and high-affinity transporters in roots of barley and <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013 , 162, 496-511	6.6	50
88	Rapid, futile K ⁺ cycling and pool-size dynamics define low-affinity potassium transport in barley. <i>Plant Physiology</i> , 2006 , 141, 1494-507	6.6	50
87	Cytosolic concentrations and transmembrane fluxes of NH ₄ ⁺ /NH ₃ . An evaluation of recent proposals. <i>Plant Physiology</i> , 2001 , 125, 523-6	6.6	47

86	Ethylene is critical to the maintenance of primary root growth and Fe homeostasis under Fe stress in Arabidopsis. <i>Journal of Experimental Botany</i> , 2015 , 66, 2041-54	7	46
85	The Tomato 14-3-3 protein TFT4 modulates H ⁺ efflux, basipetal auxin transport, and the PKS5-J3 pathway in the root growth response to alkaline stress. <i>Plant Physiology</i> , 2013 , 163, 1817-28	6.6	44
84	Non-reciprocal interactions between K ⁺ and Na ⁺ ions in barley (<i>Hordeum vulgare</i> L.). <i>Journal of Experimental Botany</i> , 2008 , 59, 2793-801	7	43
83	Ammonium-induced loss of root gravitropism is related to auxin distribution and TRH1 function, and is uncoupled from the inhibition of root elongation in Arabidopsis. <i>Journal of Experimental Botany</i> , 2012 , 63, 3777-88	7	41
82	N and P runoff losses in China's vegetable production systems: Loss characteristics, impact, and management practices. <i>Science of the Total Environment</i> , 2019 , 663, 971-979	10.2	39
81	Ammonium-induced shoot ethylene production is associated with the inhibition of lateral root formation in Arabidopsis. <i>Journal of Experimental Botany</i> , 2013 , 64, 1413-25	7	38
80	Bioengineering nitrogen acquisition in rice: can novel initiatives in rice genomics and physiology contribute to global food security?. <i>BioEssays</i> , 2004 , 26, 683-92	4.1	38
79	Selenium Biofortification and Interaction With Other Elements in Plants: A Review. <i>Frontiers in Plant Science</i> , 2020 , 11, 586421	6.2	38
78	Silver ions disrupt K ⁺ homeostasis and cellular integrity in intact barley (<i>Hordeum vulgare</i> L.) roots. <i>Journal of Experimental Botany</i> , 2012 , 63, 151-62	7	36
77	K ⁺ efflux and retention in response to NaCl stress do not predict salt tolerance in contrasting genotypes of rice (<i>Oryza sativa</i> L.). <i>PLoS ONE</i> , 2013 , 8, e57767	3.7	36
76	Overexpression of rice aquaporin OsPIP1;2 improves yield by enhancing mesophyll CO ₂ conductance and phloem sucrose transport. <i>Journal of Experimental Botany</i> , 2019 , 70, 671-681	7	36
75	Regulation and mechanism of potassium release from barley roots: an in planta ⁴² K ⁺ analysis. <i>New Phytologist</i> , 2010 , 188, 1028-38	9.8	35
74	Stimulation of nitrogen removal in the rhizosphere of aquatic duckweed by root exudate components. <i>Planta</i> , 2014 , 239, 591-603	4.7	34
73	Constancy of nitrogen turnover kinetics in the plant cell: insights into the integration of subcellular N fluxes. <i>Planta</i> , 2001 , 213, 175-81	4.7	34
72	Effects of the biological nitrification inhibitor 1,9-decanediol on nitrification and ammonia oxidizers in three agricultural soils. <i>Soil Biology and Biochemistry</i> , 2019 , 129, 48-59	7.5	34
71	Auxin Resistant1 and PIN-FORMED2 Protect Lateral Root Formation in Arabidopsis under Iron Stress. <i>Plant Physiology</i> , 2015 , 169, 2608-23	6.6	33
70	Excess iron stress reduces root tip zone growth through nitric oxide-mediated repression of potassium homeostasis in Arabidopsis. <i>New Phytologist</i> , 2018 , 219, 259-274	9.8	31
69	Isolation and characterization of a novel ammonium overly sensitive mutant, amos2, in Arabidopsis thaliana. <i>Planta</i> , 2012 , 235, 239-52	4.7	31

68	Can unidirectional influx be measured in higher plants? A mathematical approach using parameters from efflux analysis. <i>New Phytologist</i> , 2001 , 150, 37-47	9.8	31
67	Sodium efflux in plant roots: what do we really know?. <i>Journal of Plant Physiology</i> , 2015 , 186-187, 1-12	3.6	30
66	Ussing's conundrum and the search for transport mechanisms in plants. <i>New Phytologist</i> , 2009 , 183, 243-246	3.6	30
65	A pharmacological analysis of high-affinity sodium transport in barley (<i>Hordeum vulgare</i> L.): a $^{24}\text{Na}^+$ / $^{42}\text{K}^+$ study. <i>Journal of Experimental Botany</i> , 2012 , 63, 2479-89	7	30
64	Spatio-temporal dynamics in global rice gene expression (<i>Oryza sativa</i> L.) in response to high ammonium stress. <i>Journal of Plant Physiology</i> , 2017 , 212, 94-104	3.6	29
63	Ammonium fluxes into plant roots: Energetics, kinetics and regulation. <i>Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science</i> , 1997 , 160, 261-268		29
62	GSA-1/ARG1 protects root gravitropism in Arabidopsis under ammonium stress. <i>New Phytologist</i> , 2013 , 200, 97-111	9.8	27
61	Comparative Analysis of Arabidopsis Ecotypes Reveals a Role for Brassinosteroids in Root Hydrotropism. <i>Plant Physiology</i> , 2018 , 176, 2720-2736	6.6	25
60	Nutrient constraints on terrestrial carbon fixation: The role of nitrogen. <i>Journal of Plant Physiology</i> , 2016 , 203, 95-109	3.6	23
59	Quantification and enzyme targets of fatty acid amides from duckweed root exudates involved in the stimulation of denitrification. <i>Journal of Plant Physiology</i> , 2016 , 198, 81-8	3.6	22
58	Comprehensive assessment of the effects of nitrification inhibitor application on reactive nitrogen loss in intensive vegetable production systems. <i>Agriculture, Ecosystems and Environment</i> , 2021 , 307, 107227	5.7	21
57	The Arabidopsis AMOT1/EIN3 gene plays an important role in the amelioration of ammonium toxicity. <i>Journal of Experimental Botany</i> , 2019 , 70, 1375-1388	7	20
56	The physiology of channel-mediated K^+ acquisition in roots of higher plants. <i>Physiologia Plantarum</i> , 2014 , 151, 305-12	4.6	19
55	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	5.3	18
54	Measurement of Differential Na^+ Efflux from Apical and Bulk Root Zones of Intact Barley and Arabidopsis Plants. <i>Frontiers in Plant Science</i> , 2016 , 7, 272	6.2	18
53	Root-Apex Proton Fluxes at the Centre of Soil-Stress Acclimation. <i>Trends in Plant Science</i> , 2020 , 25, 794-804	3.4	17
52	Root developmental adaptation to Fe toxicity: Mechanisms and management. <i>Plant Signaling and Behavior</i> , 2016 , 11, e1117722	2.5	17
51	Trans-stimulation of $^{13}\text{NH}_4^+$ efflux provides evidence for the cytosolic origin of tracer in the compartmental analysis of barley roots. <i>Functional Plant Biology</i> , 2003 , 30, 1233-1238	2.7	17

50	Subcellular NH flux analysis in leaf segments of wheat (<i>Triticum aestivum</i>). <i>New Phytologist</i> , 2002 , 155, 373-380	9.8	16
49	Drought stress obliterates the preference for ammonium as an N source in the C plant <i>Spartina alterniflora</i> . <i>Journal of Plant Physiology</i> , 2017 , 213, 98-107	3.6	15
48	A new, non-perturbing, sampling procedure in tracer exchange measurements. <i>Journal of Experimental Botany</i> , 2006 , 57, 1309-14	7	15
47	The face value of ion fluxes: the challenge of determining influx in the low-affinity transport range. <i>Journal of Experimental Botany</i> , 2006 , 57, 3293-300	7	15
46	Plant Nitrogen Transport and Its Regulation in Changing Soil Environments. <i>Journal of Crop Improvement</i> , 2006 , 15, 1-23	1.4	15
45	The case for cytosolic NO ₃ ⁻ heterostasis: a critique of a recently proposed model. <i>Plant, Cell and Environment</i> , 2003 , 26, 183-188	8.4	15
44	Involvement of auxin in the regulation of ammonium tolerance in rice (<i>Oryza sativa</i> L.). <i>Plant and Soil</i> , 2018 , 432, 373-387	4.2	15
43	Mechanical side-deep fertilization mitigates ammonia volatilization and nitrogen runoff and increases profitability in rice production independent of fertilizer type and split ratio. <i>Journal of Cleaner Production</i> , 2021 , 316, 128370	10.3	15
42	Endogenous ABA alleviates rice ammonium toxicity by reducing ROS and free ammonium via regulation of the SAPK9-bZIP20 pathway. <i>Journal of Experimental Botany</i> , 2020 , 71, 4562-4577	7	14
41	Potassium and nitrogen poisoning: Physiological changes and biomass gains in rice and barley. <i>Canadian Journal of Plant Science</i> , 2014 , 94, 1085-1089	1	14
40	The Response of the Root Apex in Plant Adaptation to Iron Heterogeneity in Soil. <i>Frontiers in Plant Science</i> , 2016 , 7, 344	6.2	14
39	TaANR1-TaBG1 and TaWabi5-TaNRT2s/NARs Link ABA Metabolism and Nitrate Acquisition in Wheat Roots. <i>Plant Physiology</i> , 2020 , 182, 1440-1453	6.6	13
38	Microprofiling of nitrogen patches in paddy soil: Analysis of spatiotemporal nutrient heterogeneity at the microscale. <i>Scientific Reports</i> , 2016 , 6, 27064	4.9	13
37	The Chloroplast Protease AMOS1/EGY1 Affects Phosphate Homeostasis under Phosphate Stress. <i>Plant Physiology</i> , 2016 , 172, 1200-1208	6.6	12
36	Ion fluxes and cytosolic pool sizes: examining fundamental relationships in transmembrane flux regulation. <i>Planta</i> , 2003 , 217, 490-7	4.7	11
35	Dynamic analysis of the impact of free-air CO ₂ enrichment (FACE) on biomass and N uptake in two contrasting genotypes of rice. <i>Functional Plant Biology</i> , 2018 , 45, 696-704	2.7	11
34	Tomato plants ectopically expressing Arabidopsis GRF9 show enhanced resistance to phosphate deficiency and improved fruit production in the field. <i>Journal of Plant Physiology</i> , 2018 , 226, 31-39	3.6	10
33	Potassium physiology from Archean to Holocene: A higher-plant perspective. <i>Journal of Plant Physiology</i> , 2021 , 262, 153432	3.6	10

32	Transcriptome analysis of rice (<i>Oryza sativa</i> L.) in response to ammonium resupply reveals the involvement of phytohormone signaling and the transcription factor OsJAZ9 in reprogramming of nitrogen uptake and metabolism. <i>Journal of Plant Physiology</i> , 2020 , 246-247, 153137	3.6	9
31	Molecular components of stress-responsive plastid retrograde signaling networks and their involvement in ammonium stress. <i>Plant Signaling and Behavior</i> , 2013 , 8, e23107	2.5	9
30	Superior growth, N uptake and NH ₄ ⁺ tolerance in the giant bamboo <i>Phyllostachys edulis</i> over the broad-leaved tree <i>Castanopsis fargesii</i> at elevated NH ₄ ⁺ may underlie community succession and favor the expansion of bamboo. <i>Tree Physiology</i> , 2020 , 40, 1606-1622	4.2	9
29	Roles of abscisic acid and auxin in shoot-supplied ammonium inhibition of root system development. <i>Plant Signaling and Behavior</i> , 2011 , 6, 1451-3	2.5	7
28	Cytosolic ion exchange dynamics: insights into the mechanisms of component ion fluxes and their measurement. <i>Functional Plant Biology</i> , 2003 , 30, 355-363	2.7	7
27	Complexity of potassium acquisition: how much flows through channels?. <i>Plant Signaling and Behavior</i> , 2013 , 8, e24799	2.5	6
26	Induction of S-nitrosoglutathione reductase protects root growth from ammonium toxicity by regulating potassium homeostasis in Arabidopsis and rice. <i>Journal of Experimental Botany</i> , 2021 , 72, 4548-4564 ⁶	7	6
25	Factors influencing the release of the biological nitrification inhibitor 1,9-decanediol from rice (<i>Oryza sativa</i> L.) roots. <i>Plant and Soil</i> , 2019 , 436, 253-265	4.2	6
24	Plasma-membrane electrical responses to salt and osmotic gradients contradict radiotracer kinetics, and reveal Na-transport dynamics in rice (<i>Oryza sativa</i> L.). <i>Planta</i> , 2019 , 249, 1037-1051	4.7	6
23	Higher nitrogen use efficiency (NUE) in hybrid "super rice" links to improved morphological and physiological traits in seedling roots. <i>Journal of Plant Physiology</i> , 2020 , 251, 153191	3.6	5
22	High ammonium inhibits root growth in Arabidopsis thaliana by promoting auxin conjugation rather than inhibiting auxin biosynthesis. <i>Journal of Plant Physiology</i> , 2021 , 261, 153415	3.6	5
21	WRKY46 promotes ammonium tolerance in Arabidopsis by repressing NUDX9 and indole-3-acetic acid-conjugating genes and by inhibiting ammonium efflux in the root elongation zone. <i>New Phytologist</i> , 2021 , 232, 190-207	9.8	5
20	In defence of the selective transport and role of silicon in plants. <i>New Phytologist</i> , 2019 , 223, 514-516	9.8	4
19	Measuring fluxes of mineral nutrients and toxicants in plants with radioactive tracers. <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	4
18	Flux measurements of cations using radioactive tracers. <i>Methods in Molecular Biology</i> , 2013 , 953, 161-701.4	1.4	4
17	Inorganic Nitrogen Absorption by Plant Roots 1999 , 1-16		3
16	Characterization and comparison of nitrate fluxes in <i>Tamarix ramosissima</i> and cotton roots under simulated drought conditions. <i>Tree Physiology</i> , 2019 , 39, 628-640	4.2	3
15	Nitrogen depletion enhances endodermal suberization without restricting transporter-mediated root NO influx. <i>Journal of Plant Physiology</i> , 2021 , 257, 153334	3.6	3

14	Stigmasterol root exudation arising from <i>Pseudomonas</i> inoculation of the duckweed rhizosphere enhances nitrogen removal from polluted waters. <i>Environmental Pollution</i> , 2021 , 287, 117587	9.3	3
13	Genes do not form channels. <i>Plant and Soil</i> , 2011 , 346, 15-17	4.2	2
12	Isotope techniques to study kinetics of Na ⁺ and K ⁺ transport under salinity conditions. <i>Methods in Molecular Biology</i> , 2012 , 913, 389-98	1.4	2
11	Bioengineering Nitrogen Acquisition in Rice: Promises for Global Food Security 2015 , 47-56		1
10	Compartmentation and flux characteristics of nitrate in spruce. <i>Planta</i> , 1995 , 196, 674	4.7	1
9	OsEIL1 protects rice growth under NH nutrition by regulating OsVTC1-3-dependent N-glycosylation and root NH efflux.. <i>Plant, Cell and Environment</i> , 2022 ,	8.4	1
8	Comparative analysis reveals gravity is involved in the MIZ1-regulated root hydrotropism. <i>Journal of Experimental Botany</i> , 2020 , 71, 7316-7330	7	1
7	Coordination of nitrogen uptake and assimilation favours the growth and competitiveness of moso bamboo over native tree species in high-NH environments. <i>Journal of Plant Physiology</i> , 2021 , 266, 153508	3.6	1
6	Continuous monitoring of plant sodium transport dynamics using clinical PET. <i>Plant Methods</i> , 2021 , 17, 8	5.8	1
5	OsGF14b is involved in regulating coarse root and fine root biomass partitioning in response to elevated [CO] in rice.. <i>Journal of Plant Physiology</i> , 2022 , 268, 153586	3.6	0
4	Syringic acid from rice as a biological nitrification and urease inhibitor and its synergism with 1,9-decanediol. <i>Biology and Fertility of Soils</i> ,1	6.1	0
3	The Role of Plant Growth Regulators in Modulating Root Architecture and Tolerance to High-Nitrate Stress in Tomato.. <i>Frontiers in Plant Science</i> , 2022 , 13, 864285	6.2	0
2	Nitrate induction in spruce: an approach using compartmental analysis. <i>Planta</i> , 1995 , 196, 683	4.7	
1	Compartmentation and flux characteristics of ammonium in spruce. <i>Planta</i> , 1995 , 196, 691	4.7	