

Philip John White

List of Publications by Year in descending order

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Version: 2024-02-01

281
papers

30,089
citations

8208

78
h-index

6349

163
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292
all docs

292
docs citations

292
times ranked

27678
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction between sulfur and selenium in agronomic biofortification of cowpea plants under field conditions. <i>Plant and Soil</i> , 2023, 486, 69-85.	1.8	5
2	Short planks in the crop nutrient barrel theory of China are changing: Evidence from 15 crops in 13 provinces. <i>Food and Energy Security</i> , 2023, 12, .	2.0	7
3	Sodium hyperaccumulators in the Caryophyllales are characterized by both abnormally large shoot sodium concentrations and [Na] _{shoot} /[Na] _{root} quotients greater than unity. <i>Annals of Botany</i> , 2022, 129, 65-78.	1.4	0
4	Linking root exudation to belowground economic traits for resource acquisition. <i>New Phytologist</i> , 2022, 233, 1620-1635.	3.5	129
5	Mechanisms for improving phosphorus utilization efficiency in plants. <i>Annals of Botany</i> , 2022, 129, 247-258.	1.4	37
6	Local and systemic responses conferring acclimation of <i>Brassica napus</i> roots to low phosphorus conditions. <i>Journal of Experimental Botany</i> , 2022, 73, 4753-4777.	2.4	9
7	Effect of balanced application of boron and phosphorus fertilizers on soil bacterial community, seed yield and phosphorus use efficiency of <i>Brassica napus</i> . <i>Science of the Total Environment</i> , 2021, 751, 141644.	3.9	10
8	Physiological responses of date palm (<i>Phoenix dactylifera</i>) seedlings to seawater and flooding. <i>New Phytologist</i> , 2021, 229, 3318-3329.	3.5	11
9	Utilization of Low Nitrogen Barley for Production of Distilling Quality Malt. <i>Journal of the American Society of Brewing Chemists</i> , 2021, 79, 26-32.	0.8	4
10	The secrets of calcicole species revealed. <i>Journal of Experimental Botany</i> , 2021, 72, 968-970.	2.4	5
11	Transcriptional Regulation of Genes Involved in Zinc Uptake, Sequestration and Redistribution Following Foliar Zinc Application to <i>Medicago sativa</i> . <i>Plants</i> , 2021, 10, 476.	1.6	17
12	Identification of QTLs associated with potassium use efficiency and underlying candidate genes by whole-genome resequencing of two parental lines in <i>Brassica napus</i> . <i>Genomics</i> , 2021, 113, 755-768.	1.3	9
13	Possible consequences of an inability of plants to control manganese uptake. <i>Plant and Soil</i> , 2021, 461, 63-68.	1.8	7
14	Magnesium and calcium overaccumulate in the leaves of a <i>schengen3</i> mutant of <i>Brassica rapa</i> . <i>Plant Physiology</i> , 2021, 186, 1616-1631.	2.3	11
15	Liming impacts barley yield over a wide concentration range of soil exchangeable cations. <i>Nutrient Cycling in Agroecosystems</i> , 2021, 120, 131-144.	1.1	7
16	Agronomic biofortification of cowpea with zinc: Variation in primary metabolism responses and grain nutritional quality among 29 diverse genotypes. <i>Plant Physiology and Biochemistry</i> , 2021, 162, 378-387.	2.8	19
17	Relationships Between Leaf Carbon and Macronutrients Across Woody Species and Forest Ecosystems Highlight How Carbon Is Allocated to Leaf Structural Function. <i>Frontiers in Plant Science</i> , 2021, 12, 674932.	1.7	22
18	What evidence exists on the effectiveness of the techniques and management approaches used to improve the productivity of field-grown tomatoes under conditions of water-, nitrogen- and/or phosphorus-deficit? A systematic map. <i>Environmental Evidence</i> , 2021, 10, .	1.1	1

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19	Genetic Dissection of Root Angle of Brassica napus in Response to Low Phosphorus. <i>Frontiers in Plant Science</i> , 2021, 12, 697872.	1.7	10
20	Unravelling homeostasis effects of phosphorus and zinc nutrition by leaf photochemistry and metabolic adjustment in cotton plants. <i>Scientific Reports</i> , 2021, 11, 13746.	1.6	18
21	Phytic acid accumulation in plants: Biosynthesis pathway regulation and role in human diet. <i>Plant Physiology and Biochemistry</i> , 2021, 164, 132-146.	2.8	29
22	Application of sodium selenate to cowpea (<i>Vigna unguiculata</i> L.) increases shoot and grain Se partitioning with strong genotypic interactions. <i>Journal of Trace Elements in Medicine and Biology</i> , 2021, 67, 126781.	1.5	3
23	Integrated transcriptome and metabolome analysis reveals the physiological and molecular responses of allotetraploid rapeseed to ammonium toxicity. <i>Environmental and Experimental Botany</i> , 2021, 189, 104550.	2.0	11
24	Loss of organic carbon in suburban soil upon urbanization of Chengdu megacity, China. <i>Science of the Total Environment</i> , 2021, 785, 147209.	3.9	20
25	Potassium Use Efficiency of Plants. , 2021, , 119-145.		6
26	Rhizosphere Processes and Root Traits Determining the Acquisition of Soil Potassium. , 2021, , 99-117.		3
27	Optimised processing of faba bean (<i>Vicia faba</i> L.) kernels as a brewing adjunct. <i>Journal of the Institute of Brewing</i> , 2021, 127, 13-20.	0.8	3
28	Heterogeneous phosphate supply influences maize lateral root proliferation by regulating auxin redistribution. <i>Annals of Botany</i> , 2020, 125, 119-130.	1.4	24
29	The influence of phylogeny and ecology on root, shoot and plant ionomes of 14 native Brazilian species. <i>Physiologia Plantarum</i> , 2020, 168, 790-802.	2.6	12
30	TRY plant trait database “ enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	4.2	1,038
31	Agronomic biofortification with selenium impacts storage proteins in grains of upland rice. <i>Journal of the Science of Food and Agriculture</i> , 2020, 100, 1990-1997.	1.7	23
32	Comparative genome and transcriptome analysis unravels key factors of nitrogen use efficiency in <i>Brassica napus</i> L. <i>Plant, Cell and Environment</i> , 2020, 43, 712-731.	2.8	41
33	The impact of different morphological and biochemical root traits on phosphorus acquisition and seed yield of <i>Brassica napus</i> . <i>Field Crops Research</i> , 2020, 258, 107960.	2.3	22
34	Effect of phosphorus supply on root traits of two <i>Brassica oleracea</i> L. genotypes. <i>BMC Plant Biology</i> , 2020, 20, 368.	1.6	15
35	Magnesium in crop production and food quality. <i>Plant and Soil</i> , 2020, 457, 1-3.	1.8	7
36	Sustainable Cropping Requires Adaptation to a Heterogeneous Rhizosphere. <i>Trends in Plant Science</i> , 2020, 25, 1194-1202.	4.3	56

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37	Boron and Phosphorus Act Synergistically to Modulate Absorption and Distribution of Phosphorus and Growth of <i>Brassica napus</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 7830-7838.	2.4	8
38	Predicting dates of head initiation and yields of broccoli crops grown throughout Scotland. <i>European Journal of Agronomy</i> , 2020, 116, 126055.	1.9	2
39	Genetic dissection of the shoot and root ionomes of <i>Brassica napus</i> grown with contrasting phosphate supplies. <i>Annals of Botany</i> , 2020, 126, 119-140.	1.4	8
40	Virtual water flows under projected climate, land use and population change: the case of UK feed barley and meat. <i>Heliyon</i> , 2020, 6, e03127.	1.4	12
41	Potassium in crop physiology. <i>Burleigh Dodds Series in Agricultural Science</i> , 2020, , 213-236.	0.1	2
42	Mapping and cloning of quantitative trait loci for phosphorus efficiency in crops: opportunities and challenges. <i>Plant and Soil</i> , 2019, 439, 91-112.	1.8	63
43	What evidence exists on the effectiveness of the techniques and management approaches used to improve the productivity of field grown tomatoes under conditions of water-, nitrogen- and/or phosphorus-deficit? A systematic map protocol. <i>Environmental Evidence</i> , 2019, 8, .	1.1	5
44	Ammonium Improves Corn Phosphorus Acquisition Through Changes in the Rhizosphere Processes and Root Morphology. <i>Pedosphere</i> , 2019, 29, 534-539.	2.1	3
45	Root traits benefitting crop production in environments with limited water and nutrient availability. <i>Annals of Botany</i> , 2019, 124, 883-890.	1.4	30
46	Identification of QTLs for relative root traits associated with phosphorus efficiency in two culture systems in <i>Brassica napus</i> . <i>Euphytica</i> , 2019, 215, 1.	0.6	7
47	Faba bean as a novel brewing adjunct: Consumer evaluation. <i>Journal of the Institute of Brewing</i> , 2019, 125, 310-314.	0.8	12
48	Silicon Uptake and Localisation in Date Palm (<i>Phoenix dactylifera</i>) – A Unique Association With Sclerenchyma. <i>Frontiers in Plant Science</i> , 2019, 10, 988.	1.7	37
49	Leaf photosynthetic capacity is regulated by the interaction of nitrogen and potassium through coordination of CO ₂ diffusion and carboxylation. <i>Physiologia Plantarum</i> , 2019, 167, 418-432.	2.6	24
50	Agronomic biofortification of cowpea with selenium: effects of selenate and selenite applications on selenium and phytate concentrations in seeds. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 5969-5983.	1.7	42
51	Phosphorus-zinc interactions in cotton: consequences for biomass production and nutrient-use efficiency in photosynthesis. <i>Physiologia Plantarum</i> , 2019, 166, 996-1007.	2.6	31
52	Yield responses of arable crops to liming – An evaluation of relationships between yields and soil pH from a long-term liming experiment. <i>European Journal of Agronomy</i> , 2019, 105, 176-188.	1.9	80
53	Yield loss of oilseed rape (<i>Brassica napus</i> L.) under nitrogen deficiency is associated with under-regulation of plant population density. <i>European Journal of Agronomy</i> , 2019, 103, 80-89.	1.9	18
54	Regional variations in potential groundwater recharge from spring barley crop fields in the UK under projected climate change. <i>Groundwater for Sustainable Development</i> , 2019, 8, 332-345.	2.3	12

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55	Plant nutrition and soil fertility: synergies for acquiring global green growth and sustainable development. <i>Plant and Soil</i> , 2019, 434, 1-6.	1.8	43
56	Mineral element composition of cabbage as affected by soil type and phosphorus and zinc fertilisation. <i>Plant and Soil</i> , 2019, 434, 151-165.	1.8	31
57	Early Responses of Brassica oleracea Roots to Zinc Supply Under Sufficient and Sub-Optimal Phosphorus Supply. <i>Frontiers in Plant Science</i> , 2019, 10, 1645.	1.7	16
58	Storage nitrogen co-ordinates leaf expansion and photosynthetic capacity in winter oilseed rape. <i>Journal of Experimental Botany</i> , 2018, 69, 2995-3007.	2.4	83
59	Rice auxin influx carrier OsAUX1 facilitates root hair elongation in response to low external phosphate. <i>Nature Communications</i> , 2018, 9, 1408.	5.8	110
60	Root hair abundance impacts cadmium accumulation in Arabidopsis thaliana shoots. <i>Annals of Botany</i> , 2018, 122, 903-914.	1.4	17
61	Variation in the angiosperm ionome. <i>Physiologia Plantarum</i> , 2018, 163, 306-322.	2.6	55
62	Physiological, biochemical, and ultrastructural characterization of selenium toxicity in cowpea plants. <i>Environmental and Experimental Botany</i> , 2018, 150, 172-182.	2.0	92
63	Liming impacts on soils, crops and biodiversity in the UK: A review. <i>Science of the Total Environment</i> , 2018, 610-611, 316-332.	3.9	285
64	Species-Wide Variation in Shoot Nitrate Concentration, and Genetic Loci Controlling Nitrate, Phosphorus and Potassium Accumulation in Brassica napus L.. <i>Frontiers in Plant Science</i> , 2018, 9, 1487.	1.7	22
65	Selenium in Soils and Crops. <i>Molecular and Integrative Toxicology</i> , 2018, , 29-50.	0.5	8
66	Contrasting nutrient-disease relationships: Potassium gradients in barley leaves have opposite effects on two fungal pathogens with different sensitivities to jasmonic acid. <i>Plant, Cell and Environment</i> , 2018, 41, 2357-2372.	2.8	25
67	Physiological responses of date palm (<i>Phoenix dactylifera</i>) seedlings to acute ozone exposure at high temperature. <i>Environmental Pollution</i> , 2018, 242, 905-913.	3.7	23
68	Grain zinc concentrations differ among Brazilian wheat genotypes and respond to zinc and nitrogen supply. <i>PLoS ONE</i> , 2018, 13, e0199464.	1.1	8
69	Limits to the Biofortification of Leafy Brassicas with Zinc. <i>Agriculture (Switzerland)</i> , 2018, 8, 32.	1.4	26
70	Linear relationships between shoot magnesium and calcium concentrations among angiosperm species are associated with cell wall chemistry. <i>Annals of Botany</i> , 2018, 122, 221-226.	1.4	30
71	Selenium metabolism in plants. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2333-2342.	1.1	187
72	Juvenile root vigour improves phosphorus use efficiency of potato. <i>Plant and Soil</i> , 2018, 432, 45-63.	1.8	27

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73	Improving nutrient management in potato cultivation. Burleigh Dodds Series in Agricultural Science, 2018, , 45-68.	0.1	2
74	Biofortifying Scottish potatoes with zinc. Plant and Soil, 2017, 411, 151-165.	1.8	38
75	Variation in tuber mineral concentrations among accessions of Solanum species held in the Commonwealth Potato Collection. Genetic Resources and Crop Evolution, 2017, 64, 1927-1935.	0.8	23
76	Photosynthesis and Drymass Production of Winter Wheat in Response to Microâ€sprinkling Irrigation. Agronomy Journal, 2017, 109, 549-561.	0.9	15
77	The rhizosheath â€ a potential trait for future agricultural sustainability occurs in orders throughout the angiosperms. Plant and Soil, 2017, 418, 115-128.	1.8	92
78	Breeding histories and selection criteria for oilseed rape in Europe and China identified by genome wide pedigree dissection. Scientific Reports, 2017, 7, 1916.	1.6	16
79	The Genetics of Selenium Accumulation by Plants. Plant Ecophysiology, 2017, , 143-163.	1.5	12
80	Evolutionary origins of abnormally large shoot sodium accumulation in nonsaline environments within the Caryophyllales. New Phytologist, 2017, 214, 284-293.	3.5	25
81	Colonization and community structure of arbuscular mycorrhizal fungi in maize roots at different depths in the soil profile respond differently to phosphorus inputs on a long-term experimental site. Mycorrhiza, 2017, 27, 369-381.	1.3	50
82	Zinc for better crop production and human health. Plant and Soil, 2017, 411, 1-4.	1.8	133
83	Shaping an Optimal Soil by Rootâ€Soil Interaction. Trends in Plant Science, 2017, 22, 823-829.	4.3	87
84	Climate Change and Consequences for Potato Production: a Review of Tolerance to Emerging Abiotic Stress. Potato Research, 2017, 60, 239-268.	1.2	50
85	Identification of Candidate Genes for Calcium and Magnesium Accumulation in Brassica napus L. by Association Genetics. Frontiers in Plant Science, 2017, 8, 1968.	1.7	39
86	Effect of Climate and Agricultural Land Use Changes on UK Feed Barley Production and Food Security to the 2050s. Land, 2017, 6, 74.	1.2	27
87	Accelerating root system phenotyping of seedlings through a computer-assisted processing pipeline. Plant Methods, 2017, 13, 57.	1.9	11
88	A scanner-based rhizobox system enabling the quantification of root system development and response of <i>Brassica rapa</i> seedlings to external P availability. Plant Root, 2017, 11, 16-32.	0.3	7
89	Mutation increasing Î²-carotene concentrations does not adversely affect concentrations of essential mineral elements in pepper fruit. PLoS ONE, 2017, 12, e0172180.	1.1	20
90	Dependence of the concentrations of ¹³⁷ Cs and potassium in extracted soil solutions on soil humidity before centrifugation. Nuclear Physics and Atomic Energy, 2017, 18, 87-92.	0.2	0

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91	Selenium accumulation by plants. <i>Annals of Botany</i> , 2016, 117, mcv180.	1.4	256
92	Simulated Regional Yields of Spring Barley in the United Kingdom under Projected Climate Change. <i>Climate</i> , 2016, 4, 54.	1.2	24
93	Root morphology and seed and leaf ionic traits in a <i>Brassica napus</i> L. diversity panel show wide phenotypic variation and are characteristic of crop habit. <i>BMC Plant Biology</i> , 2016, 16, 214.	1.6	88
94	Effect of supplemental irrigation on the relationships between leaf ABA concentrations, tiller development and photosynthate accumulation and remobilization in winter wheat. <i>Plant Growth Regulation</i> , 2016, 79, 331-343.	1.8	12
95	Biomass partitioning and rhizosphere responses of maize and faba bean to phosphorus deficiency. <i>Crop and Pasture Science</i> , 2016, 67, 847.	0.7	27
96	QTL meta-analysis of root traits in <i>Brassica napus</i> under contrasting phosphorus supply in two growth systems. <i>Scientific Reports</i> , 2016, 6, 33113.	1.6	55
97	Mechanistic interpretation of the varying selectivity of Cesium-137 and potassium uptake by radish (<i>Raphanus sativus</i> L.) under field conditions near Chernobyl. <i>Journal of Environmental Radioactivity</i> , 2016, 152, 85-91.	0.9	7
98	Minimizing the Treatments Required to Determine the Responses of Different Crop Genotypes to Potassium Supply. <i>Communications in Soil Science and Plant Analysis</i> , 2016, 47, 104-111.	0.6	2
99	Effects of rooting media on root growth and morphology of <i>Brassica rapa</i> seedlings. <i>South African Journal of Plant and Soil</i> , 2016, 33, 219-227.	0.4	4
100	High-throughput phenotyping (HTP) identifies seedling root traits linked to variation in seed yield and nutrient capture in field-grown oilseed rape (<i>Brassica napus</i> L.). <i>Annals of Botany</i> , 2016, 118, 655-665.	1.4	78
101	Analysis of root growth from a phenotyping data set using a density-based model. <i>Journal of Experimental Botany</i> , 2016, 67, 1045-1058.	2.4	26
102	Inter-cultivar variation in soil-to-plant transfer of radiocaesium and radiostrontium in <i>Brassica oleracea</i> . <i>Journal of Environmental Radioactivity</i> , 2016, 155-156, 112-121.	0.9	14
103	A Large and Deep Root System Underlies High Nitrogen-Use Efficiency in Maize Production. <i>PLoS ONE</i> , 2015, 10, e0126293.	1.1	53
104	Maize Varieties Released in Different Eras Have Similar Root Length Density Distributions in the Soil, Which Are Negatively Correlated with Local Concentrations of Soil Mineral Nitrogen. <i>PLoS ONE</i> , 2015, 10, e0121892.	1.1	22
105	Phylogenetic effects on shoot magnesium concentration. <i>Crop and Pasture Science</i> , 2015, 66, 1241.	0.7	16
106	Global magnesium supply in the food chain. <i>Crop and Pasture Science</i> , 2015, 66, 1278.	0.7	21
107	Caesium inhibits the colonization of <i>Medicago truncatula</i> by arbuscular mycorrhizal fungi. <i>Journal of Environmental Radioactivity</i> , 2015, 141, 57-61.	0.9	11
108	New insights to lateral rooting: Differential responses to heterogeneous nitrogen availability among maize root types. <i>Plant Signaling and Behavior</i> , 2015, 10, e1013795.	1.2	2

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109	Improving intercropping: a synthesis of research in agronomy, plant physiology and ecology. <i>New Phytologist</i> , 2015, 206, 107-117.	3.5	805
110	Challenges and opportunities for quantifying roots and rhizosphere interactions through imaging and image analysis. <i>Plant, Cell and Environment</i> , 2015, 38, 1213-1232.	2.8	117
111	Phenotypic plasticity of the maize root system in response to heterogeneous nitrogen availability. <i>Planta</i> , 2014, 240, 667-678.	1.6	95
112	Genetical and Comparative Genomics of <i>Brassica</i> under Altered Ca Supply Identifies <i>Arabidopsis</i> Ca-Transporter Orthologs. <i>Plant Cell</i> , 2014, 26, 2818-2830.	3.1	40
113	Improving crop mineral nutrition. <i>Plant and Soil</i> , 2014, 384, 1-5.	1.8	6
114	Genotypic variation in the ability of landraces and commercial cereal varieties to avoid manganese deficiency in soils with limited manganese availability: is there a role for root-exuded phytases?. <i>Physiologia Plantarum</i> , 2014, 151, 243-256.	2.6	46
115	Dietary mineral supplies in Africa. <i>Physiologia Plantarum</i> , 2014, 151, 208-229.	2.6	178
116	Continuous, high-resolution biospeckle imaging reveals a discrete zone of activity at the root apex that responds to contact with obstacles. <i>Annals of Botany</i> , 2014, 113, 555-563.	1.4	30
117	Root hair length and rhizosheath mass depend on soil porosity, strength and water content in barley genotypes. <i>Planta</i> , 2014, 239, 643-651.	1.6	101
118	Field phenotyping of potato to assess root and shoot characteristics associated with drought tolerance. <i>Plant and Soil</i> , 2014, 378, 351-363.	1.8	43
119	Understanding the genetic control and physiological traits associated with rhizosheath production by barley (<i>Hordeum vulgare</i>). <i>New Phytologist</i> , 2014, 203, 195-205.	3.5	105
120	A scanner system for high-resolution quantification of variation in root growth dynamics of <i>Brassica rapa</i> genotypes. <i>Journal of Experimental Botany</i> , 2014, 65, 2039-2048.	2.4	96
121	Effects of supplemental irrigation with micro-sprinkling hoses on water distribution in soil and grain yield of winter wheat. <i>Field Crops Research</i> , 2014, 161, 26-37.	2.3	47
122	The length of micro-sprinkling hoses delivering supplemental irrigation affects photosynthesis and dry matter production of winter wheat. <i>Field Crops Research</i> , 2014, 168, 65-74.	2.3	24
123	Interactions between light intensity and phosphorus nutrition affect the phosphate-mining capacity of white lupin (<i>Lupinus albus</i> L.). <i>Journal of Experimental Botany</i> , 2014, 65, 2995-3003.	2.4	63
124	Interactions between root hair length and arbuscular mycorrhizal colonisation in phosphorus deficient barley (<i>Hordeum vulgare</i>). <i>Plant and Soil</i> , 2013, 372, 195-205.	1.8	55
125	Measuring variation in potato roots in both field and glasshouse: the search for useful yield predictors and a simple screen for root traits. <i>Plant and Soil</i> , 2013, 368, 231-249.	1.8	74
126	The effect of supplemental irrigation after jointing on leaf senescence and grain filling in wheat. <i>Field Crops Research</i> , 2013, 151, 35-44.	2.3	108

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127	Root hairs improve root penetration, root-soil contact, and phosphorus acquisition in soils of different strength. <i>Journal of Experimental Botany</i> , 2013, 64, 3711-3721.	2.4	215
128	Improving potassium acquisition and utilisation by crop plants. <i>Journal of Plant Nutrition and Soil Science</i> , 2013, 176, 305-316.	1.1	115
129	Matching roots to their environment. <i>Annals of Botany</i> , 2013, 112, 207-222.	1.4	247
130	A conceptual model of root hair ideotypes for future agricultural environments: what combination of traits should be targeted to cope with limited P availability?. <i>Annals of Botany</i> , 2013, 112, 317-330.	1.4	118
131	Can root electrical capacitance be used to predict root mass in soil?. <i>Annals of Botany</i> , 2013, 112, 457-464.	1.4	49
132	Preface. <i>Journal of Experimental Botany</i> , 2013, 64, 1179-1179.	2.4	1
133	High-throughput root phenotyping screens identify genetic loci associated with root architectural traits in <i>Brassica napus</i> under contrasting phosphate availabilities. <i>Annals of Botany</i> , 2013, 112, 381-389.	1.4	90
134	Root traits for infertile soils. <i>Frontiers in Plant Science</i> , 2013, 4, 193.	1.7	145
135	Analyzing Lateral Root Development: How to Move Forward. <i>Plant Cell</i> , 2012, 24, 15-20.	3.1	125
136	What are the implications of variation in root hair length on tolerance to phosphorus deficiency in combination with water stress in barley (<i>Hordeum vulgare</i>)?. <i>Annals of Botany</i> , 2012, 110, 319-328.	1.4	175
137	A new physical interpretation of plant root capacitance. <i>Journal of Experimental Botany</i> , 2012, 63, 6149-6159.	2.4	49
138	Bio-fortification of potato tubers using foliar zinc-fertiliser. <i>Journal of Horticultural Science and Biotechnology</i> , 2012, 87, 123-129.	0.9	37
139	Distribution of calcium (Ca) and magnesium (Mg) in the leaves of <i>Brassica rapa</i> under varying exogenous Ca and Mg supply. <i>Annals of Botany</i> , 2012, 109, 1081-1089.	1.4	43
140	Opportunities for improving phosphorus-use efficiency in crop plants. <i>New Phytologist</i> , 2012, 195, 306-320.	3.5	702
141	Testing the distinctness of shoot ionomes of angiosperm families using the Rothamsted Park Grass Continuous Hay Experiment. <i>New Phytologist</i> , 2012, 196, 101-109.	3.5	79
142	Ion Uptake Mechanisms of Individual Cells and Roots. , 2012, , 7-47.		100
143	Long-distance Transport in the Xylem and Phloem. , 2012, , 49-70.		117
144	Managing the Nutrition of Plants and People. <i>Applied and Environmental Soil Science</i> , 2012, 2012, 1-13.	0.8	56

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145	Soil Management for Sustainable Agriculture. <i>Applied and Environmental Soil Science</i> , 2012, 2012, 1-3.	0.8	38
146	Nature and nurture: the importance of seed phosphorus content. <i>Plant and Soil</i> , 2012, 357, 1-8.	1.8	167
147	Some elements are more equal than others: soil-to-plant transfer of radiocaesium and radiostrontium, revisited. <i>Plant and Soil</i> , 2012, 355, 23-27.	1.8	28
148	Analysis of improvements in nitrogen use efficiency associated with 75 years of spring barley breeding. <i>European Journal of Agronomy</i> , 2012, 42, 49-58.	1.9	112
149	Dietary Requirements for Magnesium, but not Calcium, are Likely to be met in Malawi Based on National Food Supply Data. <i>International Journal for Vitamin and Nutrition Research</i> , 2012, 82, 192-199.	0.6	17
150	Root responses to cadmium in the rhizosphere: a review. <i>Journal of Experimental Botany</i> , 2011, 62, 21-37.	2.4	862
151	Physiological Limits to Zinc Biofortification of Edible Crops. <i>Frontiers in Plant Science</i> , 2011, 2, 80.	1.7	223
152	Generation of nonvernalâ€obligate, fasterâ€cycling <i>Noccaea caerulescens</i> lines through fast neutron mutagenesis. <i>New Phytologist</i> , 2011, 189, 409-414.	3.5	10
153	Impact of soil tillage on the robustness of the genetic component of variation in phosphorus (P) use efficiency in barley (<i>Hordeum vulgare</i> L.). <i>Plant and Soil</i> , 2011, 339, 113-123.	1.8	42
154	Crops that feed the world 4. Barley: a resilient crop? Strengths and weaknesses in the context of food security. <i>Food Security</i> , 2011, 3, 141-178.	2.4	216
155	High Resolution Melt (HRM) analysis is an efficient tool to genotype EMS mutants in complex crop genomes. <i>Plant Methods</i> , 2011, 7, 43.	1.9	79
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