

Philip John White

List of Publications by Year in descending order

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Version: 2024-02-01

281
papers

30,089
citations

7096

78
h-index

5539

163
g-index

292
all docs

292
docs citations

292
times ranked

25030
citing authors

#	ARTICLE	IF	CITATIONS
1	Biofortification of crops with seven mineral elements often lacking in human diets – iron, zinc, copper, calcium, magnesium, selenium and iodine. <i>New Phytologist</i> , 2009, 182, 49-84.	7.3	1,667
2	Calcium in Plants. <i>Annals of Botany</i> , 2003, 92, 487-511.	2.9	1,666
3	Zinc in plants. <i>New Phytologist</i> , 2007, 173, 677-702.	7.3	1,577
4	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
5	How do plants respond to nutrient shortage by biomass allocation?. <i>Trends in Plant Science</i> , 2006, 11, 610-617.	8.8	957
6	Root responses to cadmium in the rhizosphere: a review. <i>Journal of Experimental Botany</i> , 2011, 62, 21-37.	4.8	862
7	Phylogenetic Variation in the Silicon Composition of Plants. <i>Annals of Botany</i> , 2005, 96, 1027-1046.	2.9	842
8	Plant nutrition for sustainable development and global health. <i>Annals of Botany</i> , 2010, 105, 1073-1080.	2.9	814
9	Improving intercropping: a synthesis of research in agronomy, plant physiology and ecology. <i>New Phytologist</i> , 2015, 206, 107-117.	7.3	805
10	Biofortifying crops with essential mineral elements. <i>Trends in Plant Science</i> , 2005, 10, 586-593.	8.8	768
11	Opportunities for improving phosphorus-use efficiency in crop plants. <i>New Phytologist</i> , 2012, 195, 306-320.	7.3	702
12	Chloride in Soils and its Uptake and Movement within the Plant: A Review. <i>Annals of Botany</i> , 2001, 88, 967-988.	2.9	499
13	Biological costs and benefits to plant-microbe interactions in the rhizosphere. <i>Journal of Experimental Botany</i> , 2005, 56, 1729-1739.	4.8	411
14	Sucrose transport in the phloem: integrating root responses to phosphorus starvation. <i>Journal of Experimental Botany</i> , 2007, 59, 93-109.	4.8	394
15	Changes in Gene Expression in Arabidopsis Shoots during Phosphate Starvation and the Potential for Developing Smart Plants. <i>Plant Physiology</i> , 2003, 132, 578-596.	4.8	393
16	Biofortification of UK food crops with selenium. <i>Proceedings of the Nutrition Society</i> , 2006, 65, 169-181.	1.0	378
17	The pathways of calcium movement to the xylem. <i>Journal of Experimental Botany</i> , 2001, 52, 891-899.	4.8	369
18	Interactions between selenium and sulphur nutrition in Arabidopsis thaliana. <i>Journal of Experimental Botany</i> , 2004, 55, 1927-1937.	4.8	368

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19	Tansley Review No. 113. <i>New Phytologist</i> , 2000, 147, 241-256.	7.3	317
20	Evolutionary control of leaf element composition in plants. <i>New Phytologist</i> , 2007, 174, 516-523.	7.3	304
21	Calcium channels in higher plants. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000, 1465, 171-189.	2.6	303
22	Liming impacts on soils, crops and biodiversity in the UK: A review. <i>Science of the Total Environment</i> , 2018, 610-611, 316-332.	8.0	285
23	Shoot yield drives phosphorus use efficiency in <i>Brassica oleracea</i> and correlates with root architecture traits. <i>Journal of Experimental Botany</i> , 2009, 60, 1953-1968.	4.8	278
24	Genetic Responses to Phosphorus Deficiency. <i>Annals of Botany</i> , 2004, 94, 323-332.	2.9	269
25	Selenium accumulation by plants. <i>Annals of Botany</i> , 2016, 117, mcv180.	2.9	256
26	The high affinity K ⁺ transporter <i>AtHAK5</i> plays a physiological role in plants at very low K ⁺ concentrations and provides a caesium uptake pathway in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2008, 59, 595-607.	4.8	255
27	Matching roots to their environment. <i>Annals of Botany</i> , 2013, 112, 207-222.	2.9	247
28	Moving cationic minerals to edible tissues: potassium, magnesium, calcium. <i>Current Opinion in Plant Biology</i> , 2009, 12, 291-298.	7.1	246
29	Selenium biofortification of high-yielding winter wheat (<i>Triticum aestivum</i> L.) by liquid or granular Se fertilisation. <i>Plant and Soil</i> , 2010, 332, 5-18.	3.7	242
30	Phylogenetic variation in the shoot mineral concentration of angiosperms. <i>Journal of Experimental Botany</i> , 2004, 55, 321-336.	4.8	235
31	A Cellular Hypothesis for the Induction of Blossom-End Rot in Tomato Fruit. <i>Annals of Botany</i> , 2005, 95, 571-581.	2.9	225
32	Physiological Limits to Zinc Biofortification of Edible Crops. <i>Frontiers in Plant Science</i> , 2011, 2, 80.	3.6	223
33	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.	5.3	216
34	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.	4.8	215
35	A comparison of the <i>Thlaspi caerulescens</i> and <i>Thlaspi arvense</i> shoot transcriptomes. <i>New Phytologist</i> , 2006, 170, 239-260.	7.3	213
36	Phylogenetic variation in heavy metal accumulation in angiosperms. <i>New Phytologist</i> , 2001, 152, 9-27.	7.3	191

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37	Selenium metabolism in plants. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2333-2342.	2.4	187
38	Genes for calcium-permeable channels in the plasma membrane of plant root cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1564, 299-309.	2.6	182
39	Dietary mineral supplies in Africa. <i>Physiologia Plantarum</i> , 2014, 151, 208-229.	5.2	178
40	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.	2.9	175
41	<i>Arabidopsis thaliana</i> root non-selective cation channels mediate calcium uptake and are involved in growth. <i>Plant Journal</i> , 2002, 32, 799-808.	5.7	174
42	Cesium Toxicity in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2004, 136, 3824-3837.	4.8	168
43	Nature and nurture: the importance of seed phosphorus content. <i>Plant and Soil</i> , 2012, 357, 1-8.	3.7	167
44	Recent advances in fruit development and ripening: an overview. <i>Journal of Experimental Botany</i> , 2002, 53, 1995-2000.	4.8	155
45	Nutrient Sensing and Signalling in Plants: Potassium and Phosphorus. <i>Advances in Botanical Research</i> , 2005, 43, 209-257.	1.1	155
46	Sugar Signaling in Root Responses to Low Phosphorus Availability. <i>Plant Physiology</i> , 2011, 156, 1033-1040.	4.8	154
47	Extraordinarily High Leaf Selenium to Sulfur Ratios Define $\text{Se-accumulator}^{\text{TM}}$ Plants. <i>Annals of Botany</i> , 2007, 100, 111-118.	2.9	149
48	Phosphorus nutrition of terrestrial plants. <i>Plant Ecophysiology</i> , 2008, , 51-81.	1.5	146
49	Root traits for infertile soils. <i>Frontiers in Plant Science</i> , 2013, 4, 193.	3.6	145
50	Zinc for better crop production and human health. <i>Plant and Soil</i> , 2017, 411, 1-4.	3.7	133
51	Variation in the shoot calcium content of angiosperms. <i>Journal of Experimental Botany</i> , 2003, 54, 1431-1446.	4.8	131
52	Linking root exudation to belowground economic traits for resource acquisition. <i>New Phytologist</i> , 2022, 233, 1620-1635.	7.3	129
53	Calcium Channels in the Plasma Membrane of Root Cells. <i>Annals of Botany</i> , 1998, 81, 173-183.	2.9	127
54	Analyzing Lateral Root Development: How to Move Forward. <i>Plant Cell</i> , 2012, 24, 15-20.	6.6	125

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55	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.	2.9	118
56	Long-distance Transport in the Xylem and Phloem. , 2012, , 49-70.		117
57	Challenges and opportunities for quantifying roots and rhizosphere interactions through imaging and image analysis. <i>Plant, Cell and Environment</i> , 2015, 38, 1213-1232.	5.7	117
58	Improving potassium acquisition and utilisation by crop plants. <i>Journal of Plant Nutrition and Soil Science</i> , 2013, 176, 305-316.	1.9	115
59	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.	4.1	112
60	Tandem Quadruplication of HMA4 in the Zinc (Zn) and Cadmium (Cd) Hyperaccumulator <i>Noccaea caerulescens</i> . <i>PLoS ONE</i> , 2011, 6, e17814.	2.5	112
61	Selenium concentration and speciation in biofortified flour and bread: Retention of selenium during grain biofortification, processing and production of Se-enriched food. <i>Food Chemistry</i> , 2011, 126, 1771-1778.	8.2	110
62	Rice auxin influx carrier OsAUX1 facilitates root hair elongation in response to low external phosphate. <i>Nature Communications</i> , 2018, 9, 1408.	12.8	110
63	Does zinc move apoplastically to the xylem in roots of <i>Thlaspi caerulescens</i> ?. <i>New Phytologist</i> , 2002, 153, 201-207.	7.3	109
64	Relationships Between Yield and Mineral Concentrations in Potato Tubers. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2009, 44, 6-11.	1.0	109
65	The effect of supplemental irrigation after jointing on leaf senescence and grain filling in wheat. <i>Field Crops Research</i> , 2013, 151, 35-44.	5.1	108
66	Shoot Calcium and Magnesium Concentrations Differ between Subtaxa, Are Highly Heritable, and Associate with Potentially Pleiotropic Loci in <i>Brassica oleracea</i> . <i>Plant Physiology</i> , 2008, 146, 1707-1720.	4.8	107
67	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.	7.3	105
68	Root hair length and rhizosheath mass depend on soil porosity, strength and water content in barley genotypes. <i>Planta</i> , 2014, 239, 643-651.	3.2	101
69	Ion Uptake Mechanisms of Individual Cells and Roots. , 2012, , 7-47.		100
70	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.	4.8	96
71	Phenotypic plasticity of the maize root system in response to heterogeneous nitrogen availability. <i>Planta</i> , 2014, 240, 667-678.	3.2	95
72	The three-dimensional distribution of minerals in potato tubers. <i>Annals of Botany</i> , 2011, 107, 681-691.	2.9	93

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73	The physiological basis of genotypic differences in nitrogen use efficiency in oilseed rape (Brassica) Tj ETQq1 1 0.784314 rgBTJ/Overlock	5.1	92
74	The rhizosheath â€“ a potential trait for future agricultural sustainability occurs in orders throughout the angiosperms. <i>Plant and Soil</i> , 2017, 418, 115-128.	3.7	92
75	Physiological, biochemical, and ultrastructural characterization of selenium toxicity in cowpea plants. <i>Environmental and Experimental Botany</i> , 2018, 150, 172-182.	4.2	92
76	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.	2.9	90
77	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.	3.6	88
78	Shaping an Optimal Soil by Rootâ€“Soil Interaction. <i>Trends in Plant Science</i> , 2017, 22, 823-829.	8.8	87
79	Eats roots and leaves. Can edible horticultural crops address dietary calcium, magnesium and potassium deficiencies?. <i>Proceedings of the Nutrition Society</i> , 2010, 69, 601-612.	1.0	85
80	Soil factors affecting selenium concentration in wheat grain and the fate and speciation of Se fertilisers applied to soil. <i>Plant and Soil</i> , 2010, 332, 19-30.	3.7	84
81	Storage nitrogen co-ordinates leaf expansion and photosynthetic capacity in winter oilseed rape. <i>Journal of Experimental Botany</i> , 2018, 69, 2995-3007.	4.8	83
82	Potassium currents across the plasma membrane of protoplasts derived from rye roots: a patch-clamp study. <i>Journal of Experimental Botany</i> , 1995, 46, 497-511.	4.8	80
83	Yield responses of arable crops to liming â€“ 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.	4.1	80
84	High Resolution Melt (HRM) analysis is an efficient tool to genotype EMS mutants in complex crop genomes. <i>Plant Methods</i> , 2011, 7, 43.	4.3	79
85	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.	7.3	79
86	The molecular mechanism of sodium influx to root cells. <i>Trends in Plant Science</i> , 1999, 4, 245-246.	8.8	78
87	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.	2.9	78
88	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.	3.7	74
89	Using genomic DNA-based probe-selection to improve the sensitivity of high-density oligonucleotide arrays when applied to heterologous species. <i>Plant Methods</i> , 2005, 1, 10.	4.3	73
90	Impact of sulphur fertilisation on crop response to selenium fertilisation. <i>Plant and Soil</i> , 2010, 332, 31-40.	3.7	70

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91	Influx and accumulation of Cs ⁺ by the akt1 mutant of <i>Arabidopsis thaliana</i> (L.) Heynh. lacking a dominant K ⁺ transport system. <i>Journal of Experimental Botany</i> , 2001, 52, 839-844.	4.8	66
92	The deposition of suberin lamellae determines the magnitude of cytosolic Ca ²⁺ elevations in root endodermal cells subjected to cooling. <i>Plant Journal</i> , 2002, 30, 457-465.	5.7	66
93	Natural genetic variation in caesium (Cs) accumulation by <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2004, 162, 535-548.	7.3	64
94	The Sources of Phosphorus in the Waters of Great Britain. <i>Journal of Environmental Quality</i> , 2009, 38, 13-26.	2.0	63
95	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.	4.8	63
96	Mapping and cloning of quantitative trait loci for phosphorus efficiency in crops: opportunities and challenges. <i>Plant and Soil</i> , 2019, 439, 91-112.	3.7	63
97	Selecting plants to minimise radiocaesium in the food chain. <i>Plant and Soil</i> , 2003, 249, 177-186.	3.7	62
98	Effect of controlled atmosphere storage on abscisic acid concentration and other biochemical attributes of onion bulbs. <i>Postharvest Biology and Technology</i> , 2006, 39, 233-242.	6.0	62
99	Proton and anion transport at the tonoplast in crassulacean-acid-metabolism plants: specificity of the malate-influx system in <i>Kalanchoë daigremontiana</i> . <i>Planta</i> , 1989, 179, 265-274.	3.2	61
100	Regulatory Hotspots Are Associated with Plant Gene Expression under Varying Soil Phosphorus Supply in <i>Brassica rapa</i> . <i>Plant Physiology</i> , 2011, 156, 1230-1241.	4.8	60
101	Potassium channels from the plasma membrane of rye roots characterized following incorporation into planar lipid bilayers. <i>Planta</i> , 1992, 186, 188-202.	3.2	58
102	Managing the Nutrition of Plants and People. <i>Applied and Environmental Soil Science</i> , 2012, 2012, 1-13.	1.7	56
103	Sustainable Cropping Requires Adaptation to a Heterogeneous Rhizosphere. <i>Trends in Plant Science</i> , 2020, 25, 1194-1202.	8.8	56
104	The regulation of K ⁺ influx into roots of rye (<i>Secale cereale</i> L.) seedlings by negative feedback via the K ⁺ flux from shoot to root in the phloem. <i>Journal of Experimental Botany</i> , 1997, 48, 2063-2073.	4.8	55
105	Functional Characterization of Two Ripening-related Sucrose Transporters from Grape Berries. <i>Annals of Botany</i> , 2001, 87, 125-129.	2.9	55
106	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.	3.7	55
107	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.	3.3	55
108	Variation in the angiosperm ionome. <i>Physiologia Plantarum</i> , 2018, 163, 306-322.	5.2	55

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109	The effect of 1-methylcyclopropene (1-MCP) on the physical and biochemical characteristics of onion cv. SS1 bulbs during storage. <i>Postharvest Biology and Technology</i> , 2007, 44, 131-140.	6.0	54
110	Genetic analysis of potassium use efficiency in <i>Brassica oleracea</i> . <i>Annals of Botany</i> , 2010, 105, 1199-1210.	2.9	54
111	An easily implemented agro-hydrological procedure with dynamic root simulation for water transfer in the crop-soil system: Validation and application. <i>Journal of Hydrology</i> , 2009, 370, 177-190.	5.4	53
112	A Large and Deep Root System Underlies High Nitrogen-Use Efficiency in Maize Production. <i>PLoS ONE</i> , 2015, 10, e0126293.	2.5	53
113	Estimating radionuclide transfer to wild species—data requirements and availability for terrestrial ecosystems. <i>Journal of Radiological Protection</i> , 2004, 24, A89-A103.	1.1	52
114	A dynamic model for the combined effects of N, P and K fertilizers on yield and mineral composition; description and experimental test. <i>Plant and Soil</i> , 2007, 298, 81-98.	3.7	51
115	Substrate Kinetics of the Tonoplast H ⁺ -Translocating Inorganic Pyrophosphatase and Its Activation by Free Mg ²⁺ . <i>Plant Physiology</i> , 1990, 93, 1063-1070.	4.8	50
116	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. <i>Mycorrhiza</i> , 2017, 27, 369-381.	2.8	50
117	Climate Change and Consequences for Potato Production: a Review of Tolerance to Emerging Abiotic Stress. <i>Potato Research</i> , 2017, 60, 239-268.	2.7	50
118	The Voltage-Independent Cation Channel in the Plasma Membrane of Wheat Roots Is Permeable to Divalent Cations and May Be Involved in Cytosolic Ca ²⁺ Homeostasis. <i>Plant Physiology</i> , 2002, 130, 1386-1395.	4.8	49
119	A new physical interpretation of plant root capacitance. <i>Journal of Experimental Botany</i> , 2012, 63, 6149-6159.	4.8	49
120	Can root electrical capacitance be used to predict root mass in soil?. <i>Annals of Botany</i> , 2013, 112, 457-464.	2.9	49
121	The Permeation of Ammonium through a Voltage-independent K ⁺ Channel in the Plasma Membrane of Rye Roots. <i>Journal of Membrane Biology</i> , 1996, 152, 89-99.	2.1	48
122	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.	5.1	47
123	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.	5.2	46
124	Acclimation of potassium influx in rye (<i>Secale cereale</i>) to low root temperatures. <i>Planta</i> , 1987, 171, 377-385.	3.2	45
125	Applying a solute transfer model to phytoextraction: Zinc acquisition by <i>Thlaspi caerulescens</i> . <i>Plant and Soil</i> , 2003, 249, 45-56.	3.7	44
126	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.	2.9	43

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127	Field phenotyping of potato to assess root and shoot characteristics associated with drought tolerance. <i>Plant and Soil</i> , 2014, 378, 351-363.	3.7	43
128	Plant nutrition and soil fertility: synergies for acquiring global green growth and sustainable development. <i>Plant and Soil</i> , 2019, 434, 1-6.	3.7	43
129	The effect of the transition between controlled atmosphere and regular atmosphere storage on bulbs of onion cultivars SS1, Carlos and Renate. <i>Postharvest Biology and Technology</i> , 2007, 44, 228-239.	6.0	42
130	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.	3.7	42
131	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.	3.5	42
132	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.	5.7	41
133	Gene Expression Changes in Phosphorus Deficient Potato (<i>Solanum tuberosum</i> L.) Leaves and the Potential for Diagnostic Gene Expression Markers. <i>PLoS ONE</i> , 2011, 6, e24606.	2.5	41
134	Cell marking in <i>Arabidopsis thaliana</i> and its application to patch-clamp studies. <i>Plant Journal</i> , 1998, 15, 843-851.	5.7	40
135	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.	6.6	40
136	Identification of Candidate Genes for Calcium and Magnesium Accumulation in <i>Brassica napus</i> L. by Association Genetics. <i>Frontiers in Plant Science</i> , 2017, 8, 1968.	3.6	39
137	Soil Management for Sustainable Agriculture. <i>Applied and Environmental Soil Science</i> , 2012, 2012, 1-3.	1.7	38
138	Biofortifying Scottish potatoes with zinc. <i>Plant and Soil</i> , 2017, 411, 151-165.	3.7	38
139	Bio-fortification of potato tubers using foliar zinc-fertiliser. <i>Journal of Horticultural Science and Biotechnology</i> , 2012, 87, 123-129.	1.9	37
140	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.	3.6	37
141	Mechanisms for improving phosphorus utilization efficiency in plants. <i>Annals of Botany</i> , 2022, 129, 247-258.	2.9	37
142	Phytoremediation assisted by microorganisms. <i>Trends in Plant Science</i> , 2001, 6, 502.	8.8	36
143	The dynamics of root meristem distribution in the soil. <i>Plant, Cell and Environment</i> , 2010, 33, 358-369.	5.7	36
144	Depolarization-activated calcium channels shape the calcium signatures induced by low temperature stress. <i>New Phytologist</i> , 2009, 183, 6-8.	7.3	34

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145	Advanced patch-clamp techniques and single-channel analysis. <i>Journal of Experimental Botany</i> , 1999, 50, 1037-1054.	4.8	32
146	Phosphorus Nutrition: Rhizosphere Processes, Plant Response and Adaptations. <i>Soil Biology</i> , 2011, , 245-271.	0.8	32
147	Phosphorus-zinc interactions in cotton: consequences for biomass production and nutrient-use efficiency in photosynthesis. <i>Physiologia Plantarum</i> , 2019, 166, 996-1007.	5.2	31
148	Mineral element composition of cabbage as affected by soil type and phosphorus and zinc fertilisation. <i>Plant and Soil</i> , 2019, 434, 151-165.	3.7	31
149	Solute is imported to elongating root cells of barley as a pressure driven-flow of solution. <i>Functional Plant Biology</i> , 2004, 31, 391.	2.1	30
150	Evidence of neutral transcriptome evolution in plants. <i>New Phytologist</i> , 2008, 180, 587-593.	7.3	30
151	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.	2.9	30
152	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.	2.9	30
153	Root traits benefitting crop production in environments with limited water and nutrient availability. <i>Annals of Botany</i> , 2019, 124, 883-890.	2.9	30
154	Unidirectional Ca ²⁺ Fluxes in Roots of Rye (<i>Secale cereale</i> L). A Comparison of Excised Roots with Roots of Intact Plants. <i>Journal of Experimental Botany</i> , 1992, 43, 1061-1074.	4.8	29
155	Phytic acid accumulation in plants: Biosynthesis pathway regulation and role in human diet. <i>Plant Physiology and Biochemistry</i> , 2021, 164, 132-146.	5.8	29
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