

Soil conditions and cereal root system architecture: re- linking Darwin and Weaver

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Post-embryonic root organogenesis in cereals: branching out from model plants. <i>Trends in Plant Science</i> , 2013, 18, 459-467.	4.3	142
2	Isolation of a novel mutant gene for soil-surface rooting in rice (<i>Oryza sativa</i> L.). <i>Rice</i> , 2013, 6, 30.	1.7	24
3	A DNA-based method for studying root responses to drought in field-grown wheat genotypes. <i>Scientific Reports</i> , 2013, 3, 3194.	1.6	29
4	Gas Diffusion, Non-Darcy Air Permeability, and Computed Tomography Images of a Clay Subsoil Affected by Compaction. <i>Soil Science Society of America Journal</i> , 2013, 77, 1977-1990.	1.2	71
5	Phenotypic plasticity of the maize root system in response to heterogeneous nitrogen availability. <i>Planta</i> , 2014, 240, 667-678.	1.6	95
6	Image-Based High-Throughput Field Phenotyping of Crop Roots. <i>Plant Physiology</i> , 2014, 166, 470-486.	2.3	239
7	Root architecture and root and tuber crop productivity. <i>Trends in Plant Science</i> , 2014, 19, 419-425.	4.3	135
8	Developing phosphorus-efficient crop varieties—An interdisciplinary research framework. <i>Field Crops Research</i> , 2014, 162, 87-98.	2.3	68
10	Reprint of “Developing phosphorus-efficient crop varieties—An interdisciplinary research framework”. <i>Field Crops Research</i> , 2014, 165, 49-60.	2.3	17
11	Soil coring at multiple field environments can directly quantify variation in deep root traits to select wheat genotypes for breeding. <i>Journal of Experimental Botany</i> , 2014, 65, 6231-6249.	2.4	134
12	Using tube rhizotrons to measure variation in depth penetration rate among modern North-European winter wheat (<i>Triticum aestivum</i> L.) cultivars. <i>Euphytica</i> , 2014, 199, 233-245.	0.6	29
13	Abscisic Acid: Hidden Architect of Root System Structure. <i>Plants</i> , 2015, 4, 548-572.	1.6	120
14	Changes in root architecture under elevated concentrations of CO_2 and nitrogen reflect alternate soil exploration strategies. <i>New Phytologist</i> , 2015, 205, 1153-1163.	3.5	50
15	Drought stress condition increases root to shoot ratio via alteration of carbohydrate partitioning and enzymatic activity in rice seedlings. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	221
16	Genetic improvement for root growth angle to enhance crop production. <i>Breeding Science</i> , 2015, 65, 111-119.	0.9	103
17	A QTL for root growth angle on rice chromosome 7 is involved in the genetic pathway of DEEPER ROOTING 1. <i>Rice</i> , 2015, 8, 8.	1.7	65
18	QTLs underlying natural variation of root growth angle among rice cultivars with the same functional allele of DEEPER ROOTING 1. <i>Rice</i> , 2015, 8, 16.	1.7	69
19	High-throughput phenotyping of seminal root traits in wheat. <i>Plant Methods</i> , 2015, 11, 13.	1.9	150

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20	Sequencing, assembly, annotation, and gene expression: novel insights into the hormonal control of carrot root development revealed by a high-throughput transcriptome. <i>Molecular Genetics and Genomics</i> , 2015, 290, 1379-1391.	1.0	37
21	qRT9, a quantitative trait locus controlling root thickness and root length in upland rice. <i>Journal of Experimental Botany</i> , 2015, 66, 2723-2732.	2.4	64
22	Simultaneous effects of leaf irradiance and soil moisture on growth and root system architecture of novel wheat genotypes: implications for phenotyping. <i>Journal of Experimental Botany</i> , 2015, 66, 5441-5452.	2.4	21
23	Variation in Adult Plant Phenotypes and Partitioning among Seed and Stem-Borne Roots across <i>Brachypodium distachyon</i> Accessions to Exploit in Breeding Cereals for Well-Watered and Drought Environments. <i>Plant Physiology</i> , 2015, 168, 953-967.	2.3	44
24	Regulation of plant root system architecture: implications for crop advancement. <i>Current Opinion in Biotechnology</i> , 2015, 32, 93-98.	3.3	351
25	Comparison of root system architecture and rhizosphere microbial communities of Balsas teosinte and domesticated corn cultivars. <i>Soil Biology and Biochemistry</i> , 2015, 80, 34-44.	4.2	104
26	Effects of Nitrogen Application on Root Length and Grain Yield of Rain-Fed Maize under Different Soil Types. <i>Agronomy Journal</i> , 2016, 108, 1656-1665.	0.9	28
27	Roots Withstanding their Environment: Exploiting Root System Architecture Responses to Abiotic Stress to Improve Crop Tolerance. <i>Frontiers in Plant Science</i> , 2016, 07, 1335.	1.7	359
28	Root System Architecture and Abiotic Stress Tolerance: Current Knowledge in Root and Tuber Crops. <i>Frontiers in Plant Science</i> , 2016, 7, 1584.	1.7	157
29	Phenotyping: Using Machine Learning for Improved Pairwise Genotype Classification Based on Root Traits. <i>Frontiers in Plant Science</i> , 2016, 7, 1864.	1.7	27
30	Integrated analysis of root microbiomes of soybean and wheat from agricultural fields. <i>Scientific Reports</i> , 2016, 6, 28084.	1.6	198
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36	Plant roots: understanding structure and function in an ocean of complexity. <i>Annals of Botany</i> , 2016, 118, 555-559.	1.4	55
37	X-Ray Computed Tomography Reveals the Response of Root System Architecture to Soil Texture. <i>Plant Physiology</i> , 2016, 171, 2028-2040.	2.3	87

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39	Wheats developed for high yield on stored soil moisture have deep vigorous root systems. <i>Functional Plant Biology</i> , 2016, 43, 173.	1.1	27
40	archiDART: an R package for the automated computation of plant root architectural traits. <i>Plant and Soil</i> , 2016, 398, 351-365.	1.8	27
41	Extreme rainfall and snowfall alter responses of soil respiration to nitrogen fertilization: a 3â€­year field experiment. <i>Global Change Biology</i> , 2017, 23, 3403-3417.	4.2	45
42	What crop type for atmospheric carbon sequestration: Results from a global data analysis. <i>Agriculture, Ecosystems and Environment</i> , 2017, 243, 34-46.	2.5	53
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44	Association between root growth angle and root length density of a near-isogenic line of IR64 rice with <i>DEEPER ROOTING 1</i> under different levels of soil compaction. <i>Plant Production Science</i> , 2017, 20, 162-175.	0.9	26
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51	Edaphic history over seedling characters predicts integration and plasticity of integration across geologically variable populations of <i>Arabidopsis thaliana</i> . <i>American Journal of Botany</i> , 2017, 104, 1802-1815.	0.8	7
52	Differentiating Wheat Genotypes by Bayesian Hierarchical Nonlinear Mixed Modeling of Wheat Root Density. <i>Frontiers in Plant Science</i> , 2017, 8, 282.	1.7	15
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57	Measuring root system traits of wheat in 2D images to parameterize 3D root architecture models. <i>Plant and Soil</i> , 2018, 425, 457-477.	1.8	21
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60	Growth and root responses of woody species to rocky substrate: implications for gully rehabilitation. <i>Plant Biosystems</i> , 2018, 152, 918-928.	0.8	2
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62	Root system architecture in winter varieties of spelt (<i>Triticum spelta</i> L.). <i>BIO Web of Conferences</i> , 2018, 10, 01019.	0.1	0
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76	Genotype by environment interaction for seeds yield in pea (<i>Pisum sativum</i> L.) using additive main effects and multiplicative interaction model. <i>Euphytica</i> , 2019, 215, 1.	0.6	26
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