Tracy A Valentine

List of Publications by Year in descending order

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36 papers

2,877 citations

394421 19 h-index 361022 35 g-index

41 all docs

41 docs citations

41 times ranked 3425 citing authors

#	Article	IF	Citations
1	Root elongation, water stress, and mechanical impedance: a review of limiting stresses and beneficial root tip traits. Journal of Experimental Botany, 2011, 62, 59-68.	4.8	766
2	Root responses to soil physical conditions; growth dynamics from field to cell. Journal of Experimental Botany, 2006, 57, 437-447.	4.8	399
3	Soluble Signals from Cells Identified at the Cell Wall Establish a Developmental Pathway in Carrot Plant Cell, 1997, 9, 2225-2241.	6.6	198
4	Functional Analysis of a DNA-Shuffled Movement Protein Reveals That Microtubules Are Dispensable for the Cell-to-Cell Movement of Tobacco mosaic virus. Plant Cell, 2002, 14, 1207-1222.	6.6	178
5	Transparent Soil for Imaging the Rhizosphere. PLoS ONE, 2012, 7, e44276.	2.5	156
6	Root traits for infertile soils. Frontiers in Plant Science, 2013, 4, 193.	3.6	145
7	Soil strength and macropore volume limit root elongation rates in many UK agricultural soils. Annals of Botany, 2012, 110, 259-270.	2.9	138
8	Efficient Virus-Induced Gene Silencing in Roots Using a Modified Tobacco Rattle Virus Vector. Plant Physiology, 2004, 136, 3999-4009.	4.8	122
9	Challenges and opportunities for quantifying roots and rhizosphere interactions through imaging and image analysis. Plant, Cell and Environment, 2015, 38, 1213-1232.	5.7	117
10	Root hair length and rhizosheath mass depend on soil porosity, strength and water content in barley genotypes. Planta, 2014, 239, 643-651.	3.2	101
11	Root cap influences root colonisation by Pseudomonas fluorescens SBW25 on maize. FEMS Microbiology Ecology, 2005, 54, 123-130.	2.7	53
12	Defence gene expression and phloem quality contribute to mesophyll and phloem resistance to aphids in wild barley. Journal of Experimental Botany, 2019, 70, 4011-4026.	4.8	43
13	The price of protection: a defensive endosymbiont impairs nymph growth in the bird cherryâ€oat aphid, <i>Rhopalosiphum padi</i> i>. Insect Science, 2020, 27, 69-85.	3.0	39
14	Transparent soil microcosms allow 3D spatial quantification of soil microbiological processes i>in vivo i>. Plant Signaling and Behavior, 2014, 9, e970421.	2.4	37
15	Soluble Signals from Cells Identified at the Cell Wall Establish a Developmental Pathway in Carrot. Plant Cell, 1997, 9, 2225.	6.6	36
16	Delivery of macromolecules to plant parasitic nematodes using a tobacco rattle virus vector. Plant Biotechnology Journal, 2007, 5, 827-834.	8.3	36
17	Soil tillage effects on the efficacy of cultivars and their mixtures in winter barley. Field Crops Research, 2012, 128, 91-100.	5.1	34
18	Inhibition of tobacco mosaic virus replication in lateral roots is dependent on an activated meristem-derived signal. Protoplasma, 2002, 219, 184-196.	2.1	28

#	Article	IF	Citations
19	Degradation rate of soil function varies with trajectory of agricultural intensification. Agriculture, Ecosystems and Environment, 2015, 202, 160-167.	5.3	28
20	The rise, fall and resurrection of chemicalâ€induced resistance agents. Pest Management Science, 2021, 77, 3900-3909.	3.4	28
21	Myxospermous seed-mucilage quantity correlates with environmental gradients indicative of water-deficit stress: Plantago species as a model. Plant and Soil, 2020, 446, 343-356.	3.7	22
22	PIV as a method for quantifying root cell growth and particle displacement in confocal images. Microscopy Research and Technique, 2010, 73, 27-36.	2.2	20
23	Drought has negative consequences on aphid fitness and plant vigor: Insights from a metaâ€analysis. Ecology and Evolution, 2021, 11, 11915-11929.	1.9	20
24	Estimating the motion of plant root cells from in vivo confocal laser scanning microscopy images. Machine Vision and Applications, 2010, 21, 921-939.	2.7	19
25	Automated motion estimation of root responses to sucrose in two Arabidopsis thaliana genotypes using confocal microscopy. Planta, 2011, 234, 769-784.	3.2	17
26	Field Phenotyping and Long-Term Platforms to Characterise How Crop Genotypes Interact with Soil Processes and the Environment. Agronomy, 2014, 4, 242-278.	3.0	16
27	A fitness cost resulting from <i>Hamiltonella defensa</i> infection is associated with altered probing and feeding behaviour in <i>Rhopalosiphum padi</i> . Journal of Experimental Biology, 2020, 223, .	1.7	16
28	Dwarf alleles differentially affect barley root traits influencing nitrogen acquisition under low nutrient supply. Journal of Experimental Botany, 2011, 62, 3917-3927.	4.8	12
29	Sustainable disease control using weeds as indicators: Capsella bursa-pastoris and Tobacco Rattle Virus. Weed Research, 2010, 50, 511-514.	1.7	8
30	Soil Nitrogen Status Modifies Rice Root Response to Nematode-Bacteria Interactions in the Rhizosphere. PLoS ONE, 2016, 11, e0148021.	2.5	8
31	Variable impacts of reduced and zero tillage on soil carbon storage across 4–10 years of UK field experiments. Journal of Soils and Sediments, 2021, 21, 890-904.	3.0	8
32	Part-Based Multi-Frame Registration for Estimation of the Growth Of Cellular Networks in Plant Roots., 2006,,.		7
33	Towards a characterisation of the wild legume bitter vetch (<i>Lathyrus linifolius</i> L. (Reichard)) Tj ETQq1 1 0. Plant Biology, 2019, 21, 523-532.	784314 rg 3.8	gBT /Overlock 7
34	Drought stress increases the expression of barley defence genes with negative consequences for infesting cereal aphids. Journal of Experimental Botany, 2022, 73, 2238-2250.	4.8	6
35	Probing soil physical and biological resilience data from a broad sampling of arable farms in Scotland. Soil Use and Management, 2015, 31, 491-503.	4.9	4
36	Identifying Spring Barley Cultivars with Differential Response to Tillage. Agronomy, 2020, 10, 686.	3.0	4