Randy Ortiz-Castro

List of Publications by Year
in descending order

29 papers	1,980 citations	430442 18 h-index	552369 26 g-index
29 all docs	29 docs citations	29 times ranked	2383 citing authors

#	Article	IF	Citations
1	The role of microbial signals in plant growth and development. Plant Signaling and Behavior, 2009, 4, 701-712.	1.2	472
2	Plant growth promotion byBacillus megateriuminvolves cytokinin signaling. Plant Signaling and Behavior, 2008, 3, 263-265.	1.2	233
3	Nâ€acylâ€Lâ€homoserine lactones: a class of bacterial quorumâ€sensing signals alter postâ€embryonic root development in Arabidopsis thaliana. Plant, Cell and Environment, 2008, 31, 1497-1509.	2.8	224
4	Melatonin regulates Arabidopsis root system architecture likely acting independently of auxin signaling. Journal of Pineal Research, 2012, 53, 279-288.	3.4	218
5	Transkingdom signaling based on bacterial cyclodipeptides with auxin activity in plants. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7253-7258.	3.3	197
6	Serotonin, a Tryptophan-Derived Signal Conserved in Plants and Animals, Regulates Root System Architecture Probably Acting as a Natural Auxin Inhibitor in Arabidopsis thaliana. Plant and Cell Physiology, 2011, 52, 490-508.	1.5	109
7	Pseudomonas putida and Pseudomonas fluorescens Influence Arabidopsis Root System Architecture Through an Auxin Response Mediated by Bioactive Cyclodipeptides. Journal of Plant Growth Regulation, 2020, 39, 254-265.	2.8	52
8	Phosphate relieves chromium toxicity in Arabidopsis thaliana plants by interfering with chromate uptake. BioMetals, 2014, 27, 363-370.	1.8	48
9	Pyocyanin, a Virulence Factor Produced by Pseudomonas aeruginosa, Alters Root Development Through Reactive Oxygen Species and Ethylene Signaling in Arabidopsis. Molecular Plant-Microbe Interactions, 2014, 27, 364-378.	1.4	48
10	PHYTOCHROME AND FLOWERING TIME1/MEDIATOR25 Regulates Lateral Root Formation via Auxin Signaling in Arabidopsis Â Â. Plant Physiology, 2014, 165, 880-894.	2.3	47
11	Review: Phytostimulation and root architectural responses to quorum-sensing signals and related molecules from rhizobacteria. Plant Science, 2019, 284, 135-142.	1.7	45
12	Non-ribosomal Peptide Synthases from Pseudomonas aeruginosa Play a Role in Cyclodipeptide Biosynthesis, Quorum-Sensing Regulation, and Root Development in a Plant Host. Microbial Ecology, 2017, 73, 616-629.	1.4	42
13	The plant beneficial rhizobacterium Achromobacter sp. 5B1 influences root development through auxin signaling and redistribution. Plant Journal, 2020, 103, 1639-1654.	2.8	42
14	Tissue culture of Arabidopsis thaliana explants reveals a stimulatory effect of alkamides on adventitious root formation and nitric oxide accumulation. Plant Science, 2008, 174, 165-173.	1.7	39
15	Characterization ofdrr1, an Alkamide-Resistant Mutant of Arabidopsis, Reveals an Important Role for Small Lipid Amides in Lateral Root Development and Plant Senescence. Plant Physiology, 2010, 152, 1659-1673.	2.3	36
16	CONSTITUTIVE TRIPLE RESPONSE1 and PIN2 act in a coordinate manner to support the indeterminate root growth and meristem cell proliferating activity in Arabidopsis seedlings. Plant Science, 2019, 280, 175-186.	1.7	23
17	Chromate alters root system architecture and activates expression of genes involved in iron homeostasis and signaling in Arabidopsis thaliana. Plant Molecular Biology, 2014, 86, 35-50.	2.0	22
18	Chromate induces adventitious root formation via auxin signalling and SOLITARY-ROOT/IAA14 gene function in Arabidopsis thaliana. BioMetals, 2015, 28, 353-365.	1.8	21

#	Article	IF	Citations
19	Characterization of plant growth-promoting bacteria associated with avocado trees (Persea) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf PLoS ONE, 2020, 15, e0231215.	1.1	17
20	Micrococcus luteus LS570 promotes root branching in Arabidopsis via decreasing apical dominance of the primary root and an enhanced auxin response. Protoplasma, 2022, 259, 1139-1155.	1.0	11
21	Sucrose Protects Arabidopsis Roots from Chromium Toxicity Influencing the Auxinâ€“Plethora Signaling Pathway and Improving Meristematic Cell Activity. Journal of Plant Growth Regulation, 2018, 37, 530-538.	2.8	9
22	Plant growth-promoting and non-promoting rhizobacteria from avocado trees differentially emit volatiles that influence growth of Arabidopsis thaliana. Protoplasma, 2022, 259, 835-854.	1.0	8
23	Temporal root responses in Arabidopsis thaliana L. to chromate reveal structural and regulatory mechanisms involving the SOLITARY ROOT/IAA14 repressor for maintenance of identity meristem genes. Plant Growth Regulation, 2018, 86, 251-262.	1.8	5
24	Determinate root development in the halted primary root1 mutant of Arabidopsis correlates with death of root initial cells and an enhanced auxin response. Protoplasma, 2019, 256, 1657-1666.	1.0	4
25	dhm1, an Arabidopsis mutant with increased sensitivity to alkamides shows tumorous shoot development and enhanced lateral root formation. Plant Molecular Biology, 2013, 81, 609-625.	2.0	3
26	Bacterial Quorum-Sensing Signaling-Related drr1 Mutant Influences Abscisic Acid Responsiveness in Arabidopsis thaliana L.. Journal of Plant Growth Regulation, 0, , 1.	2.8	2
27	Pisolithus tinctorius extract affects the root system architecture through compound production with auxin-like activity in Arabidopsis thaliana.. Rhizosphere, 2021, 19, 100397.	1.4	2
28	Fluorescence detection of pyrene-stained Bacillus subtilis LPM1 rhizobacteria from colonized patterns of tomato roots. Photochemical and Photobiological Sciences, 2020, 19, 1423-1432.	1.6	1
29	Microorganisms Associated with the Ambrosial Beetle Xyleborus affinis with Plant Growth-Promotion Activity in Arabidopsis Seedlings and Antifungal Activity Against Phytopathogenic Fungus Fusarium sp. INECOL_BM-06. Microbial Ecology, 2022, , 1.	1.4	0