Kerstin A Nagel

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8629102/publications.pdf

Version: 2024-02-01

20	1,527	623734 14	752698 20
papers	citations	h-index	g-index

22	22	22	1975
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	GROWSCREEN-Rhizo is a novel phenotyping robot enabling simultaneous measurements of root and shoot growth for plants grown in soil-filled rhizotrons. Functional Plant Biology, 2012, 39, 891.	2.1	290
2	Simultaneous phenotyping of leaf growth and chlorophyll fluorescence via GROWSCREEN FLUORO allows detection of stress tolerance in Arabidopsis thaliana and other rosette plants. Functional Plant Biology, 2009, 36, 902.	2.1	274
3	Temperature responses of roots: impact on growth, root system architecture and implications for phenotyping. Functional Plant Biology, 2009, 36, 947.	2.1	191
4	Dynamics of seedling growth acclimation towards altered light conditions can be quantified via GROWSCREEN: a setup and procedure designed for rapid optical phenotyping of different plant species. New Phytologist, 2007, 174, 447-455.	7.3	165
5	Crop Improvement from Phenotyping Roots: Highlights Reveal Expanding Opportunities. Trends in Plant Science, 2020, 25, 105-118.	8.8	141
6	Dynamics of root growth stimulation in Nicotiana tabacum in increasing light intensity. Plant, Cell and Environment, 2006, 29, 1936-1945.	5.7	84
7	Impact of domestication on the phenotypic architecture of durum wheat under contrasting nitrogen fertilization. Journal of Experimental Botany, 2015, 66, 5519-5530.	4.8	69
8	Beyond Digging: Noninvasive Root and Rhizosphere Phenotyping. Trends in Plant Science, 2020, 25, 119-120.	8.8	49
9	GrowScreen-PaGe, a non-invasive, high-throughput phenotyping system based on germination paper to quantify crop phenotypic diversity and plasticity of root traits under varying nutrient supply. Functional Plant Biology, 2017, 44, 76.	2.1	47
10	Root architecture simulation improves the inference from seedling root phenotyping towards mature root systems. Journal of Experimental Botany, 2017, 68, 965-982.	4.8	45
11	Diversity in root growth responses to moisture deficit in young faba bean (Vicia faba L.) plants. PeerJ, 2018, 6, e4401.	2.0	33
12	ENHANCED GRAVITROPISM 2encodes a STERILE ALPHA MOTIFâ€“containing protein that controls root growth angle in barley and wheat. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	32
13	Effects of altered Î±â€•and Î²â€branch carotenoid biosynthesis on photoprotection and wholeâ€plant acclimation of Arabidopsis to photoâ€oxidative stress. Plant, Cell and Environment, 2013, 36, 438-453.	5.7	24
14	Effects of Low Water Availability on Root Placement and Shoot Development in Landraces and Modern Barley Cultivars. Agronomy, 2020, 10, 134.	3.0	19
15	The root system architecture of wheat establishing in soil is associated with varying elongation rates of seminal roots: quantification using 4D magnetic resonance imaging. Journal of Experimental Botany, 2022, 73, 2050-2060.	4.8	19
16	The platform GrowScreen-Agar enables identification of phenotypic diversity in root and shoot growth traits of agar grown plants. Plant Methods, 2020, 16, 89.	4.3	13
17	Time-resolution of the shoot and root growth of the model cereal Brachypodium in response to inoculation with Azospirillum bacteria at low phosphorus and temperature. Plant Growth Regulation, 2021, 93, 149-162.	3.4	10
18	Shoot and Root Traits Underlying Genotypic Variation in Early Vigor and Nutrient Accumulation in Spring Wheat Grown in High-Latitude Light Conditions. Plants, 2021, 10, 174.	3.5	10

#	Article	IF	Citations
19	Variation in Root System Architecture among the Founder Parents of Two 8-way MAGIC Wheat Populations for Selection in Breeding. Agronomy, 2021, 11, 2452.	3.0	6
20	Novel Detection System for Plant Protein Production of Pharmaceuticals and Impact on Conformational Diseases. Protein and Peptide Letters, 2010, 17, 723-731.	0.9	1