

# 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  
papers

1,527  
citations

623734

14  
h-index

752698

20  
g-index

22  
all docs

22  
docs citations

22  
times ranked

1975  
citing authors

#	ARTICLE	IF	CITATIONS
1	The root system architecture of wheat establishing in soil is associated with varying elongation rates of seminal roots: quantification using 4D magnetic resonance imaging. <i>Journal of Experimental Botany</i> , 2022, 73, 2050-2060.	4.8	19
2	Time-resolution of the shoot and root growth of the model cereal <i>Brachypodium</i> in response to inoculation with <i>Azospirillum</i> bacteria at low phosphorus and temperature. <i>Plant Growth Regulation</i> , 2021, 93, 149-162.	3.4	10
3	Shoot and Root Traits Underlying Genotypic Variation in Early Vigor and Nutrient Accumulation in Spring Wheat Grown in High-Latitude Light Conditions. <i>Plants</i> , 2021, 10, 174.	3.5	10
4	ENHANCED GRAVITROPISM 2 encodes a STERILE ALPHA MOTIF-containing protein that controls root growth angle in barley and wheat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	32
5	Variation in Root System Architecture among the Founder Parents of Two 8-way MAGIC Wheat Populations for Selection in Breeding. <i>Agronomy</i> , 2021, 11, 2452.	3.0	6
6	Crop Improvement from Phenotyping Roots: Highlights Reveal Expanding Opportunities. <i>Trends in Plant Science</i> , 2020, 25, 105-118.	8.8	141
7	Beyond Digging: Noninvasive Root and Rhizosphere Phenotyping. <i>Trends in Plant Science</i> , 2020, 25, 119-120.	8.8	49
8	The platform GrowScreen-Agar enables identification of phenotypic diversity in root and shoot growth traits of agar grown plants. <i>Plant Methods</i> , 2020, 16, 89.	4.3	13
9	Effects of Low Water Availability on Root Placement and Shoot Development in Landraces and Modern Barley Cultivars. <i>Agronomy</i> , 2020, 10, 134.	3.0	19
10	Diversity in root growth responses to moisture deficit in young faba bean ( <i>Vicia faba</i> L.) plants. <i>PeerJ</i> , 2018, 6, e4401.	2.0	33
11	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. <i>Functional Plant Biology</i> , 2017, 44, 76.	2.1	47
12	Root architecture simulation improves the inference from seedling root phenotyping towards mature root systems. <i>Journal of Experimental Botany</i> , 2017, 68, 965-982.	4.8	45
13	Impact of domestication on the phenotypic architecture of durum wheat under contrasting nitrogen fertilization. <i>Journal of Experimental Botany</i> , 2015, 66, 5519-5530.	4.8	69
14	Effects of altered $\beta$ - and $\gamma$ -branch carotenoid biosynthesis on photoprotection and whole plant acclimation of <i>Arabidopsis</i> to photooxidative stress. <i>Plant, Cell and Environment</i> , 2013, 36, 438-453.	5.7	24
15	GROWSCREEN-Rhizo is a novel phenotyping robot enabling simultaneous measurements of root and shoot growth for plants grown in soil-filled rhizotrons. <i>Functional Plant Biology</i> , 2012, 39, 891.	2.1	290
16	Novel Detection System for Plant Protein Production of Pharmaceuticals and Impact on Conformational Diseases. <i>Protein and Peptide Letters</i> , 2010, 17, 723-731.	0.9	1
17	Simultaneous phenotyping of leaf growth and chlorophyll fluorescence via GROWSCREEN FLUORO allows detection of stress tolerance in <i>Arabidopsis thaliana</i> and other rosette plants. <i>Functional Plant Biology</i> , 2009, 36, 902.	2.1	274
18	Temperature responses of roots: impact on growth, root system architecture and implications for phenotyping. <i>Functional Plant Biology</i> , 2009, 36, 947.	2.1	191

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19	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. <i>New Phytologist</i> , 2007, 174, 447-455.	7.3	165
20	Dynamics of root growth stimulation in <i>Nicotiana tabacum</i> in increasing light intensity. <i>Plant, Cell and Environment</i> , 2006, 29, 1936-1945.	5.7	84