

# Tiina Roose

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1793984/publications.pdf>

Version: 2024-02-01

15  
papers

808  
citations

623734

14  
h-index

996975

15  
g-index

17  
all docs

17  
docs citations

17  
times ranked

1092  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-resolution synchrotron imaging shows that root hairs influence rhizosphere soil structure formation. <i>New Phytologist</i> , 2017, 216, 124-135.	7.3	116
2	High resolution synchrotron imaging of wheat root hairs growing in soil and image based modelling of phosphate uptake. <i>New Phytologist</i> , 2013, 198, 1023-1029.	7.3	111
3	Traits related to differences in function among three arbuscular mycorrhizal fungi. <i>Plant and Soil</i> , 2011, 339, 231-245.	3.7	109
4	Impact of growth and uptake patterns of arbuscular mycorrhizal fungi on plant phosphorus uptake—a modelling study. <i>Plant and Soil</i> , 2008, 312, 85-99.	3.7	66
5	Modelling the contribution of arbuscular mycorrhizal fungi to plant phosphate uptake. <i>New Phytologist</i> , 2006, 171, 669-682.	7.3	59
6	Image-based modelling of nutrient movement in and around the rhizosphere. <i>Journal of Experimental Botany</i> , 2016, 67, 1059-1070.	4.8	51
7	Imaging microstructure of the barley rhizosphere: particle packing and root hair influences. <i>New Phytologist</i> , 2019, 221, 1878-1889.	7.3	51
8	Enhanced zinc uptake by rice through phytosiderophore secretion: a modelling study. <i>Plant, Cell and Environment</i> , 2011, 34, 2038-2046.	5.7	49
9	Root-induced soil deformation influences Fe, S and P: rhizosphere chemistry investigated using synchrotron XRF and XANES. <i>New Phytologist</i> , 2020, 225, 1476-1490.	7.3	44
10	Linking root structure to functionality: the impact of root system architecture on citrate-enhanced phosphate uptake. <i>New Phytologist</i> , 2020, 227, 376-391.	7.3	40
11	Modelling Nutrient Uptake by Individual Hyphae of Arbuscular Mycorrhizal Fungi: Temporal and Spatial Scales for an Experimental Design. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 2175-2200.	1.9	30
12	The impact of drought-induced root and root hair shrinkage on root-soil contact. <i>Plant Physiology</i> , 2022, 189, 1232-1236.	4.8	26
13	Multimodal correlative imaging and modelling of phosphorus uptake from soil by hyphae of mycorrhizal fungi. <i>New Phytologist</i> , 2022, 234, 688-703.	7.3	20
14	Root-soil contact dynamics of <i>Vicia faba</i> in sand. <i>Plant and Soil</i> , 2018, 431, 417-431.	3.7	16
15	A multi image-based approach for modelling plant-fertiliser interaction. <i>Rhizosphere</i> , 2019, 10, 100152.	3.0	9