Jonathan A Atkinson

List of Publications by Year
in descending order

18 papers	1,660 citations	687363 13 h-index	888059 17 g-index
24 all docs	24 docs citations	24 times ranked	2232 citing authors

#	Article	IF	Citations
1	Xâ€ray CT reveals 4D root system development and lateral root responses to nitrate in soil. The Plant Phenome Journal, 2022, 5, .	2.0	13
2	Identification of QTL and underlying genes for root system architecture associated with nitrate nutrition in hexaploid wheat. Journal of Integrative Agriculture, 2022, 21, 917-932.	3.5	6
3	The interaction between wheat roots and soil pores in structured field soil. Journal of Experimental Botany, 2021, 72, 747-756.	4.8	46
4	Soil strength influences wheat root interactions with soil macropores. Plant, Cell and Environment, 2020, 43, 235-245.	5.7	52
5	Low-Cost Automated Vectors and Modular Environmental Sensors for Plant Phenotyping. Sensors, 2020, 20, 3319.	3.8	8
6	Uncovering the hidden half of plants using new advances in root phenotyping. Current Opinion in Biotechnology, 2019, 55, 1-8.	6.6	248
7	RootNav 2.0: Deep learning for automatic navigation of complex plant root architectures. GigaScience, 2019, 8, .	6.4	101
8	Demystifying roots: A need for clarification and extended concepts in root phenotyping. Plant Science, 2019, 282, 11-13.	3.6	28
9	Linear discriminant analysis reveals differences in root architecture in wheat seedlings related to nitrogen uptake efficiency. Journal of Experimental Botany, 2017, 68, 4969-4981.	4.8	26
10	Deep machine learning provides state-of-the-art performance in image-based plant phenotyping. GigaScience, 2017, 6, 1-10.	6.4	216
11	Combining semi-automated image analysis techniques with machine learning algorithms to accelerate large-scale genetic studies. GigaScience, 2017, 6, 1-7.	6.4	18
12	Ears, shoots and leaves. Nature Plants, 2017, 3, 686-687.	9.3	1
13	Deep Learning for Multi-task Plant Phenotyping. , 2017, , .		79
14	An Updated Protocol for High Throughput Plant Tissue Sectioning. Frontiers in Plant Science, 2017, 8, 1721.	3.6	35
15	Characterization of Pearl Millet Root Architecture and Anatomy Reveals Three Types of Lateral Roots. Frontiers in Plant Science, 2016, 7, 829.	3.6	79
16	Phenotyping pipeline reveals major seedling root growth QTL in hexaploid wheat. Journal of Experimental Botany, 2015, 66, 2283-2292.	4.8	196
17	Branching Out in Roots: Uncovering Form, Function, and Regulation. Plant Physiology, 2014, 166, 538-550.	4.8	231
18	RootNav: Navigating Images of Complex Root Architectures Â Â. Plant Physiology, 2013, 162, 1802-1814.	4.8	218