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