

Nathan L Mellor

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2632932/publications.pdf>

Version: 2024-02-01

15
papers

861
citations

840776

11
h-index

996975

15
g-index

15
all docs

15
docs citations

15
times ranked

1533
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene Regulatory Network Investigation Using Ordinary. <i>Methods in Molecular Biology</i> , 2022, 2395, 33-58.	0.9	1
2	X-ray CT reveals 4D root system development and lateral root responses to nitrate in soil. <i>The Plant Phenome Journal</i> , 2022, 5, .	2.0	13
3	Systems approaches reveal that ABCB and PIN proteins mediate co-dependent auxin efflux. <i>Plant Cell</i> , 2022, 34, 2309-2327.	6.6	19
4	Auxin fluxes through plasmodesmata modify root-tip auxin distribution. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	74
5	A core mechanism for specifying root vascular pattern can replicate the anatomical variation seen in diverse plant species. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	8
6	Mobile PEAR transcription factors integrate positional cues to prime cambial growth. <i>Nature</i> , 2019, 565, 490-494.	27.8	195
7	OpenSimRoot: widening the scope and application of root architectural models. <i>New Phytologist</i> , 2017, 215, 1274-1286.	7.3	158
8	Theoretical approaches to understanding root vascular patterning: a consensus between recent models. <i>Journal of Experimental Botany</i> , 2017, 68, 5-16.	4.8	35
9	Dynamic regulation of auxin oxidase and conjugating enzymes <i>AtDAO1</i> and <i>GH3</i> modulates auxin homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11022-11027.	7.1	119
10	GH3-Mediated Auxin Conjugation Can Result in Either Transient or Oscillatory Transcriptional Auxin Responses. <i>Bulletin of Mathematical Biology</i> , 2016, 78, 210-234.	1.9	11
11	Modelling of Arabidopsis LAX3 expression suggests auxin homeostasis. <i>Journal of Theoretical Biology</i> , 2015, 366, 57-70.	1.7	12
12	The innermost secrets of root development. <i>Science</i> , 2014, 345, 622-623.	12.6	1
13	Integration of hormonal signaling networks and mobile microRNAs is required for vascular patterning in <i>Arabidopsis</i> roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 857-862.	7.1	98
14	Sequential induction of auxin efflux and influx carriers regulates lateral root emergence. <i>Molecular Systems Biology</i> , 2013, 9, 699.	7.2	104
15	Reduction of Off-Flavor Generation in Soybean Homogenates: A Mathematical Model. <i>Journal of Food Science</i> , 2010, 75, R131-8.	3.1	13