

Mikaël Lucas

List of Publications by Year in descending order

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34
papers

2,583
citations

394421

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Postembryonic in Plants: Experimental Induction of New Shoot and Root Organs. <i>Methods in Molecular Biology</i> , 2022, 2395, 79-95.	0.9	0
2	Plant : Lessons from. <i>Methods in Molecular Biology</i> , 2022, 2395, 1-12.	0.9	0
3	Future Challenges in Plant. <i>Methods in Molecular Biology</i> , 2022, 2395, 325-337.	0.9	0
4	Plant Systems Biology: Further Reading and Resources. <i>Methods in Molecular Biology</i> , 2022, 2395, 339-346.	0.9	0
5	How to Use the to Infer Gene Regulatory Networks from Transcriptomic Data. <i>Methods in Molecular Biology</i> , 2022, 2395, 13-31.	0.9	0
6	PUCHI represses early meristem formation in developing lateral roots of <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2022, 73, 3496-3510.	4.8	11
7	Transcriptome profiling of laser-captured crown root primordia reveals new pathways activated during early stages of crown root formation in rice. <i>PLoS ONE</i> , 2020, 15, e0238736.	2.5	7
8	Inference of the gene regulatory network acting downstream of CROWN ROOTLESS1 in rice reveals a regulatory cascade linking genes involved in auxin signaling, crown root initiation, and root meristem specification and maintenance. <i>Plant Journal</i> , 2019, 100, 954-968.	5.7	13
9	Development of a model estimating root length density from root impacts on a soil profile in pearl millet (<i>Pennisetum glaucum</i> (L.) R. Br). Application to measure root system response to water stress in field conditions. <i>PLoS ONE</i> , 2019, 14, e0214182.	2.5	21
10	PUCHI regulates very long chain fatty acid biosynthesis during lateral root and callus formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14325-14330.	7.1	46
11	The Spring of Systems Biology-Driven Breeding. <i>Trends in Plant Science</i> , 2018, 23, 706-720.	8.8	37
12	A New Phenotyping Pipeline Reveals Three Types of Lateral Roots and a Random Branching Pattern in Two Cereals. <i>Plant Physiology</i> , 2018, 177, 896-910.	4.8	27
13	Virtual Plants Need Water Too: Functional-Structural Root System Models in the Context of Drought Tolerance Breeding. <i>Frontiers in Plant Science</i> , 2017, 8, 1577.	3.6	30
14	Characterization of Pearl Millet Root Architecture and Anatomy Reveals Three Types of Lateral Roots. <i>Frontiers in Plant Science</i> , 2016, 7, 829.	3.6	79
15	A multi-scale model of the interplay between cell signalling and hormone transport in specifying the root meristem of <i>Arabidopsis thaliana</i> . <i>Journal of Theoretical Biology</i> , 2016, 404, 182-205.	1.7	19
16	Inference of the <i>Arabidopsis</i> Lateral Root Gene Regulatory Network Suggests a Bifurcation Mechanism That Defines Primordia Flanking and Central Zones. <i>Plant Cell</i> , 2015, 27, 1368-1388.	6.6	105
17	Inhibition of Auxin Signaling in <i>Frankia</i> Species-Infected Cells in <i>Casuarina glauca</i> Nodules Leads to Increased Nodulation. <i>Plant Physiology</i> , 2015, 167, 1149-1157.	4.8	25
18	The circadian clock rephases during lateral root organ initiation in <i>Arabidopsis thaliana</i> . <i>Nature Communications</i> , 2015, 6, 7641.	12.8	119

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19	Rhizobial root hair infection requires auxin signaling. <i>Trends in Plant Science</i> , 2015, 20, 332-334.	8.8	20
20	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
21	The roots of future rice harvests. <i>Rice</i> , 2014, 7, 29.	4.0	57
22	Role of auxin during intercellular infection of <i>Discaria trinervis</i> by <i>Frankia</i> . <i>Frontiers in Plant Science</i> , 2014, 5, 399.	3.6	19
23	The Dicot Root as a Model System for Studying Organogenesis. <i>Methods in Molecular Biology</i> , 2013, 959, 45-67.	0.9	4
24	Lateral root development in <i>Arabidopsis</i> : fifty shades of auxin. <i>Trends in Plant Science</i> , 2013, 18, 450-458.	8.8	536
25	Vertex-element models for anisotropic growth of elongated plant organs. <i>Frontiers in Plant Science</i> , 2013, 4, 233.	3.6	42
26	Lateral root morphogenesis is dependent on the mechanical properties of the overlaying tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5229-5234.	7.1	233
27	Auxin regulates aquaporin function to facilitate lateral root emergence. <i>Nature Cell Biology</i> , 2012, 14, 991-998.	10.3	323
28	Plant systems biology: network matters. <i>Plant, Cell and Environment</i> , 2011, 34, 535-553.	5.7	70
29	SHORT-ROOT Regulates Primary, Lateral, and Adventitious Root Development in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2011, 155, 384-398.	4.8	163
30	Auxin Carriers Localization Drives Auxin Accumulation in Plant Cells Infected by <i>Frankia</i> in <i>Casuarina glauca</i> Actinorhizal Nodules. <i>Plant Physiology</i> , 2010, 154, 1372-1380.	4.8	75
31	Auxin fluxes in the root apex co-regulate gravitropism and lateral root initiation. <i>Journal of Experimental Botany</i> , 2008, 59, 55-66.	4.8	134
32	Flux-Based Transport Enhancement as a Plausible Unifying Mechanism for Auxin Transport in Meristem Development. <i>PLoS Computational Biology</i> , 2008, 4, e1000207.	3.2	182
33	An Auxin Transport-Based Model of Root Branching in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2008, 3, e3673.	2.5	74
34	Phenotyping and modeling of root hydraulic architecture reveal critical determinants of axial water transport. <i>Plant Physiology</i> , 0, , .	4.8	12