Stijn Dhondt

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9289267/publications.pdf

Version: 2024-02-01

44 papers	4,505 citations	186265 28 h-index	289244 40 g-index
46 all docs	46 docs citations	46 times ranked	6557 citing authors

#	Article	IF	Citations
1	Gibberellin Signaling Controls Cell Proliferation Rate in Arabidopsis. Current Biology, 2009, 19, 1188-1193.	3.9	410
2	AUX/LAX Genes Encode a Family of Auxin Influx Transporters That Perform Distinct Functions during Arabidopsis Development. Plant Cell, 2012, 24, 2874-2885.	6.6	373
3	Exit from Proliferation during Leaf Development in Arabidopsis thaliana: A Not-So-Gradual Process. Developmental Cell, 2012, 22, 64-78.	7.0	361
4	Cell to whole-plant phenotyping: the best is yet to come. Trends in Plant Science, 2013, 18, 428-439.	8.8	288
5	Arabidopsis Class I and Class II TCP Transcription Factors Regulate Jasmonic Acid Metabolism and Leaf Development Antagonistically Â Â. Plant Physiology, 2012, 159, 1511-1523.	4.8	279
6	Survival and growth of Arabidopsis plants given limited water are not equal. Nature Biotechnology, 2011, 29, 212-214.	17.5	267
7	Increased Leaf Size: Different Means to an End Â Â. Plant Physiology, 2010, 153, 1261-1279.	4.8	222
8	ANGUSTIFOLIA3 Binds to SWI/SNF Chromatin Remodeling Complexes to Regulate Transcription during Arabidopsis Leaf Development. Plant Cell, 2014, 26, 210-229.	6.6	219
9	ETHYLENE RESPONSE FACTOR6 Acts as a Central Regulator of Leaf Growth under Water-Limiting Conditions in Arabidopsis Â Â Â. Plant Physiology, 2013, 162, 319-332.	4.8	210
10	Plant structure visualization by high-resolution X-ray computed tomography. Trends in Plant Science, 2010, 15, 419-422.	8.8	177
11	Leaf Responses to Mild Drought Stress in Natural Variants of Arabidopsis Â. Plant Physiology, 2015, 167, 800-816.	4.8	176
12	Brassinosteroid production and signaling differentially control cell division and expansion in the leaf. New Phytologist, 2013, 197, 490-502.	7.3	151
13	Developmental regulation of CYCA2s contributes to tissue-specific proliferation inArabidopsis. EMBO Journal, 2011, 30, 3430-3441.	7.8	113
14	Close-range hyperspectral image analysis for the early detection of stress responses in individual plants in a high-throughput phenotyping platform. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 138, 121-138.	11.1	111
15	SHORT-ROOT and SCARECROW Regulate Leaf Growth in Arabidopsis by Stimulating S-Phase Progression of the Cell Cycle. Plant Physiology, 2010, 154, 1183-1195.	4.8	98
16	Unlocking the potential of plant phenotyping data through integration and data-driven approaches. Current Opinion in Systems Biology, 2017, 4, 58-63.	2.6	92
17	Leaf Growth Response to Mild Drought: Natural Variation in Arabidopsis Sheds Light on Trait Architecture. Plant Cell, 2016, 28, 2417-2434.	6.6	83
18	Model-Based Analysis of Arabidopsis Leaf Epidermal Cells Reveals Distinct Division and Expansion Patterns for Pavement and Guard Cells Â Â. Plant Physiology, 2011, 156, 2172-2183.	4.8	81

#	Article	IF	Citations
19	SAMBA, a plant-specific anaphase-promoting complex/cyclosome regulator is involved in early development and A-type cyclin stabilization. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13853-13858.	7.1	80
20	Multifaceted activity of cytokinin in leaf development shapes its size and structure in Arabidopsis. Plant Journal, 2019, 97, 805-824.	5.7	74
21	Chloroplasts Are Central Players in Sugar-Induced Leaf Growth. Plant Physiology, 2016, 171, 590-605.	4.8	67
22	Analysis of hyperspectral images for detection of drought stress and recovery in maize plants in a high-throughput phenotyping platform. Computers and Electronics in Agriculture, 2019, 162, 749-758.	7.7	63
23	Combined linkage and association mapping reveals CYCD5;1 as a quantitative trait gene for endoreduplication in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4678-4683.	7.1	55
24	The transcriptional repressor complex FRS7-FRS12 regulates flowering time and growth in Arabidopsis. Nature Communications, 2017, 8, 15235.	12.8	54
25	Quantitative analysis of venation patterns of Arabidopsis leaves by supervised image analysis. Plant Journal, 2012, 69, 553-563.	5.7	52
26	Kinematic Analysis of Cell Division and Expansion. Methods in Molecular Biology, 2010, 655, 203-227.	0.9	49
27	Highâ€resolution timeâ€resolved imaging of in vitro Arabidopsis rosette growth. Plant Journal, 2014, 80, 172-184.	5.7	41
28	Whole organ, venation and epidermal cell morphological variations are correlated in the leaves of Arabidopsis mutants. Plant, Cell and Environment, 2011, 34, 2200-2211.	5.7	36
29	Drought resistance is mediated by divergent strategies in closely related Brassicaceae. New Phytologist, 2019, 223, 783-797.	7.3	34
30	cis-Cinnamic acid is a natural plant growth-promoting compound. Journal of Experimental Botany, 2019, 70, 6293-6304.	4.8	31
31	Measurement of plant growth in view of an integrative analysis of regulatory networks. Current Opinion in Plant Biology, 2015, 25, 90-97.	7.1	21
32	Strobilurins as growthâ€promoting compounds: how Stroby regulates Arabidopsis leaf growth. Plant, Cell and Environment, 2017, 40, 1748-1760.	5.7	21
33	The role of HEXOKINASE1 in Arabidopsis leaf growth. Plant Molecular Biology, 2019, 99, 79-93.	3.9	20
34	Histone 2B monoubiquitination complex integrates transcript elongation with RNA processing at circadian clock and flowering regulators. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8060-8069.	7.1	18
35	Drought affects the rate and duration of organ growth but not inter-organ growth coordination. Plant Physiology, 2021, 186, 1336-1353.	4.8	18
36	Natural Variation of Molecular and Morphological Gibberellin Responses. Plant Physiology, 2017, 173, 703-714.	4.8	16

#	Article	IF	Citations
37	Identification of putative cancer genes through data integration and comparative genomics between plants and humans. Cellular and Molecular Life Sciences, 2012, 69, 2041-2055.	5.4	10
38	Nocturnal gibberellin biosynthesis is carbon dependent and adjusts leaf expansion rates to variable conditions. Plant Physiology, 2021, 185, 228-239.	4.8	10
39	Non-destructive analysis of plant physiological traits using hyperspectral imaging: A case study on drought stress. Computers and Electronics in Agriculture, 2022, 195, 106806.	7.7	10
40	Modeling effects of illumination and plant geometry on leaf reflectance spectra in close-range hyperspectral imaging. , 2016, , .		5
41	Robust plane-based calibration for linear cameras. , 2017, , .		3
42	Detection of Plant Responses to Drought using Close-Range Hyperspectral Imaging in a High-Throughput Phenotyping Platform. , 2018, , .		2
43	Functional analysis of Arabidopsis and maize transgenic lines overexpressing the ADP-ribose/NADH pyrophosphohydrolase, AtNUDX7. International Journal of Developmental Biology, 2019, 63, 45-55.	0.6	1
44	A novel tracing method for the segmentation of cell wall networks. , 2013, 2013, 5433-6.		0