Stijn Dhondt

List of Publications by Year in descending order

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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	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
2	Drought affects the rate and duration of organ growth but not inter-organ growth coordination. Plant Physiology, 2021, 186, 1336-1353.	4.8	18
3	Nocturnal gibberellin biosynthesis is carbon dependent and adjusts leaf expansion rates to variable conditions. Plant Physiology, 2021, 185, 228-239.	4.8	10
4	cis-Cinnamic acid is a natural plant growth-promoting compound. Journal of Experimental Botany, 2019, 70, 6293-6304.	4.8	31
5	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
6	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
7	Drought resistance is mediated by divergent strategies in closely related Brassicaceae. New Phytologist, 2019, 223, 783-797.	7.3	34
8	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
9	Multifaceted activity of cytokinin in leaf development shapes its size and structure in Arabidopsis. Plant Journal, 2019, 97, 805-824.	5.7	74
10	The role of HEXOKINASE1 in Arabidopsis leaf growth. Plant Molecular Biology, 2019, 99, 79-93.	3.9	20
11	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
12	Detection of Plant Responses to Drought using Close-Range Hyperspectral Imaging in a High-Throughput Phenotyping Platform. , 2018, , .		2
13	The transcriptional repressor complex FRS7-FRS12 regulates flowering time and growth in Arabidopsis. Nature Communications, 2017, 8, 15235.	12.8	54
14	Strobilurins as growthâ€promoting compounds: how Stroby regulates Arabidopsis leaf growth. Plant, Cell and Environment, 2017, 40, 1748-1760.	5.7	21
15	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
16	Natural Variation of Molecular and Morphological Gibberellin Responses. Plant Physiology, 2017, 173, 703-714.	4.8	16
17	Robust plane-based calibration for linear cameras. , 2017, , .		3
18	Chloroplasts Are Central Players in Sugar-Induced Leaf Growth. Plant Physiology, 2016, 171, 590-605.	4.8	67

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19	Leaf Growth Response to Mild Drought: Natural Variation in Arabidopsis Sheds Light on Trait Architecture. Plant Cell, 2016, 28, 2417-2434.	6.6	83
20	Modeling effects of illumination and plant geometry on leaf reflectance spectra in close-range hyperspectral imaging. , 2016, , .		5
21	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
22	Leaf Responses to Mild Drought Stress in Natural Variants of Arabidopsis Â. Plant Physiology, 2015, 167, 800-816.	4.8	176
23	Highâ€resolution timeâ€resolved imaging of in vitro Arabidopsis rosette growth. Plant Journal, 2014, 80, 172-184.	5.7	41
24	ANGUSTIFOLIA3 Binds to SWI/SNF Chromatin Remodeling Complexes to Regulate Transcription during Arabidopsis Leaf Development. Plant Cell, 2014, 26, 210-229.	6.6	219
25	Cell to whole-plant phenotyping: the best is yet to come. Trends in Plant Science, 2013, 18, 428-439.	8.8	288
26	Brassinosteroid production and signaling differentially control cell division and expansion in the leaf. New Phytologist, 2013, 197, 490-502.	7.3	151
27	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
28	A novel tracing method for the segmentation of cell wall networks. , 2013, 2013, 5433-6.		0
29	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
30	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
31	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
32	Exit from Proliferation during Leaf Development in Arabidopsis thaliana: A Not-So-Gradual Process. Developmental Cell, 2012, 22, 64-78.	7.0	361
33	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
34	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
35	Quantitative analysis of venation patterns of Arabidopsis leaves by supervised image analysis. Plant Journal, 2012, 69, 553-563.	5.7	52
36	Developmental regulation of CYCA2s contributes to tissue-specific proliferation inArabidopsis. EMBO Journal, 2011, 30, 3430-3441.	7.8	113

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37	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
38	Survival and growth of Arabidopsis plants given limited water are not equal. Nature Biotechnology, 2011, 29, 212-214.	17.5	267
39	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
40	Increased Leaf Size: Different Means to an End Â Â. Plant Physiology, 2010, 153, 1261-1279.	4.8	222
41	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
42	Plant structure visualization by high-resolution X-ray computed tomography. Trends in Plant Science, 2010, 15, 419-422.	8.8	177
43	Kinematic Analysis of Cell Division and Expansion. Methods in Molecular Biology, 2010, 655, 203-227.	0.9	49
44	Gibberellin Signaling Controls Cell Proliferation Rate in Arabidopsis. Current Biology, 2009, 19, 1188-1193.	3.9	410