Filip Vandenbussche

List of Publications by Year
in descending order

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48 papers	3,717 citations	159585 30 h-index	214800 47 g-index

53 all docs	53 docs citations	53 times ranked	4377 citing authors

#	Article	IF	Citations
1	Cryptochrome Blue Light Photoreceptors Are Activated through Interconversion of Flavin Redox States. Journal of Biological Chemistry, 2007, 282, 9383-9391.	3.4	349
2	Role of PIN-mediated auxin efflux in apical hook development ofArabidopsis thaliana. Development (Cambridge), 2010, 137, 607-617.	2.5	297
3	The auxin influx carriers AUX1 and LAX3 are involved in auxin-ethylene interactions during apical hook development inArabidopsis thalianaseedlings. Development (Cambridge), 2010, 137, 597-606.	2.5	226
4	Reaching out of the shade. Current Opinion in Plant Biology, 2005, 8, 462-468.	7.1	222
5	In the Early Response of Arabidopsis Roots to Ethylene, Cell Elongation Is Up- and Down-Regulated and Uncoupled from Differentiation. Plant Physiology, 2001, 125, 519-522.	4.8	175
6	HY5 is a point of convergence between cryptochrome and cytokinin signalling pathways in Arabidopsis thaliana. Plant Journal, 2007, 49, 428-441.	5.7	172
7	Ethylene and Auxin Control the Arabidopsis Response to Decreased Light Intensity. Plant Physiology, 2003, 133, 517-527.	4.8	166
8	Circadian Rhythms of Ethylene Emission in Arabidopsis. Plant Physiology, 2004, 136, 3751-3761.	4.8	147
9	Auxin, Ethylene and Brassinosteroids: Tripartite Control of Growth in the Arabidopsis Hypocotyl. Plant and Cell Physiology, 2005, 46, 827-836.	3.1	146
10	Of light and length: Regulation of hypocotyl growth inArabidopsis. BioEssays, 2005, 27, 275-284.	2.5	139
11	The plant hormone ethylene restricts Arabidopsis growth via the epidermis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4130-E4139.	7.1	127
12	Ethylene in vegetative development: a tale with a riddle. New Phytologist, 2012, 194, 895-909.	7.3	124
13	Rosette Tracker: An Open Source Image Analysis Tool for Automatic Quantification of Genotype Effects Â Â. Plant Physiology, 2012, 160, 1149-1159.	4.8	123
14	Hormone-controlled UV-B responses in plants. Journal of Experimental Botany, 2016, 67, 4469-4482.	4.8	114
15	The Arabidopsis Mutant alh1 Illustrates a Cross Talk between Ethylene and Auxin. Plant Physiology, 2003, 131, 1228-1238.	4.8	95
16	Evolutionary conservation of plant gibberellin signalling pathway components. BMC Plant Biology, 2007, 7, 65.	3.6	93
17	Cell Elongation and Microtubule Behavior in the Arabidopsis Hypocotyl: Responses to Ethylene and Auxin. Journal of Plant Growth Regulation, 2005, 24, 166-178.	5.1	73
18	Regulation of seedling growth by ethylene and the ethyleneâ€“auxin crosstalk. Planta, 2017, 245, 467-489.	3.2	70

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19	A perspective on ecologically relevant plant-UV research and its practical application. Photochemical and Photobiological Sciences, 2019, 18, 970-988.	2.9	69
20	Photoreceptor-Mediated Bending towards UV-B in Arabidopsis. Molecular Plant, 2014, 7, 1041-1052.	8.3	68
21	Ethylene-induced Arabidopsis hypocotyl elongation is dependent on but not mediated by gibberellins. Journal of Experimental Botany, 2007, 58, 4269-4281.	4.8	64
22	To grow or not to grow: what can we learn on ethylene-gibberellin cross-talk by in silico gene expression analysis?. Journal of Experimental Botany, 2007, 59, 1-16.	4.8	63
23	Ultraviolet Radiation From a Plant Perspective: The Plant-Microorganism Context. Frontiers in Plant Science, 2020, 11, 597642.	3.6	60
24	Brassinosteroid control of shoot gravitropism interacts with ethylene and depends on auxin signaling components. American Journal of Botany, 2013, 100, 215-225.	1.7	56
25	Shaping the shoot: a circuitry that integrates multiple signals. Trends in Plant Science, 2004, 9, 499-506.	8.8	41
26	An ultraviolet B condition that affects growth and defense in Arabidopsis. Plant Science, 2018, 268, 54-63.	3.6	40
27	Ultraviolet-B radiation stimulates downward leaf curling in Arabidopsis thaliana. Plant Physiology and Biochemistry, 2015, 93, 9-17.	5.8	35
28	Differential UVR8 Signal across the Stem Controls UV-Bâ€“Induced Inflorescence Phototropism. Plant Cell, 2019, 31, 2070-2088.	6.6	35
29	The Role of Brassinosteroids in Shoot Gravitropism Â Â. Plant Physiology, 2011, 156, 1331-1336.	4.8	34
30	Dynamic infrared imaging analysis of apical hook development in Arabidopsis: the case of brassinosteroids. New Phytologist, 2014, 202, 1398-1411.	7.3	31
31	Position and cell type-dependent microtubule reorientation characterizes the early response of the Arabidopsis root epidermis to ethylene. Physiologia Plantarum, 2004, 121, 513-519.	5.2	30
32	One for All and All for One: Cross-Talk of Multiple Signals Controlling the Plant Phenotype. Journal of Plant Growth Regulation, 2007, 26, 178-187.	5.1	30
33	Ethylene Controls Adventitious Root Initiation Sites in Arabidopsis Hypocotyls Independently of Strigolactones. Journal of Plant Growth Regulation, 2017, 36, 897-911.	5.1	29
34	XAP5 CIRCADIAN TIMEKEEPER Regulates Ethylene Responses in Aerial Tissues of Arabidopsis Â Â. Plant Physiology, 2011, 155, 988-999.	4.8	27
35	REPRESSOR OF ULTRAVIOLET-B PHOTOMORPHOGENESIS function allows efficient phototropin mediated ultraviolet-B phototropism in etiolated seedlings. Plant Science, 2016, 252, 215-221.	3.6	26
36	Differential Accumulation of ELONGATED HYPOCOTYL5 Correlates with Hypocotyl Bending to Ultraviolet-B Light. Plant Physiology, 2014, 166, 40-43.	4.8	15

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37	Brassinosteroids Influence Arabidopsis Hypocotyl Graviresponses through Changes in Mannans and Cellulose. Plant and Cell Physiology, 2021, 62, 678-692.	3.1	14
38	Silver ions increase plasma membrane permeability through modulation of intracellular calcium levels in tobacco BY-2 cells. Plant Cell Reports, 2018, 37, 809-818.	5.6	11
39	UVR8-dependent reporters reveal spatial characteristics of signal spreading in plant tissues. Photochemical and Photobiological Sciences, 2019, 18, 1030-1045.	2.9	11
40	Elongator regulates hypocotyl growth in darkness and during photomorphogenesis. Journal of Cell Science, 2017, 131, .	2.0	10
41	TR-DB: An open-access database of compounds affecting the ethylene-induced triple response in Arabidopsis. Plant Physiology and Biochemistry, 2014, 75, 128-137.	5.8	8
42	Following the star: Inflorescence heliotropism. Environmental and Experimental Botany, 2018, 147, 75-85.	4.2	8
43	ACCERBATIN, a small molecule at the intersection of auxin and reactive oxygen species homeostasis with herbicidal properties. Journal of Experimental Botany, 2017, 68, 4185-4203.	4.8	7
44	Elongator promotes germination and early post-germination growth. Plant Signaling and Behavior, 2018, 13, e1422465.	2.4	6
45	Editorial: Ultraviolet Radiation: Friend or Foe for Plants?. Frontiers in Plant Science, 2020, 11, 541.	3.6	4
46	Cryptochromes are the dominant photoreceptors mediating heliotropic responses of Arabidopsis inflorescences. Plant, Cell and Environment, 2021, 44, 3246-3256.	5.7	4
47	Determination of Phototropism by UV-B Radiation. Methods in Molecular Biology, 2019, 1924, 131-139.	0.9	2
48	Rapid Detection of Hormonal Involvement in Light Responses. Methods in Molecular Biology, 2019, 2026, 201-213.	0.9	0