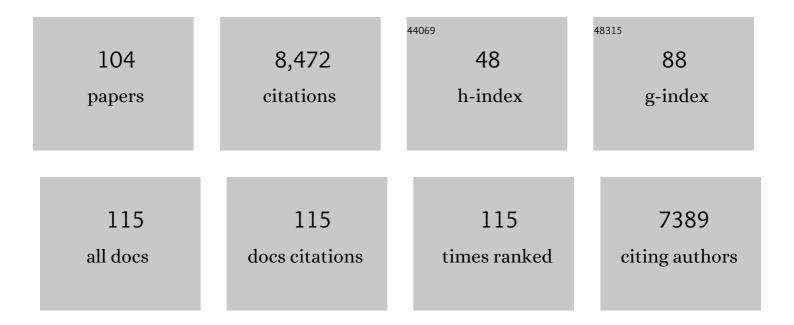
Ronald Pierik

List of Publications by Year in descending order

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PONALD PIEDIK

#	Article	IF	CITATIONS
1	How plants cope with complete submergence. New Phytologist, 2006, 170, 213-226.	7.3	465
2	The Janus face of ethylene: growth inhibition and stimulation. Trends in Plant Science, 2006, 11, 176-183.	8.8	398
3	The shadeâ€avoidance syndrome: multiple signals and ecological consequences. Plant, Cell and Environment, 2017, 40, 2530-2543.	5.7	342
4	Shade tolerance: when growing tall is not an option. Trends in Plant Science, 2013, 18, 65-71.	8.8	322
5	Auxin transport through PIN-FORMED 3 (PIN3) controls shade avoidance and fitness during competition. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22740-22744.	7.1	246
6	Reaching out of the shade. Current Opinion in Plant Biology, 2005, 8, 462-468.	7.1	222
7	DELLA protein function in growth responses to canopy signals. Plant Journal, 2007, 51, 117-126.	5.7	209
8	Shade avoidance: phytochrome signalling and other aboveground neighbour detection cues. Journal of Experimental Botany, 2014, 65, 2815-2824.	4.8	206
9	Perception of low red:farâ€red ratio compromises both salicylic acid―and jasmonic acidâ€dependent pathogen defences in <scp>A</scp> rabidopsis. Plant Journal, 2013, 75, 90-103.	5.7	181
10	Light Signaling, Root Development, and Plasticity. Plant Physiology, 2018, 176, 1049-1060.	4.8	181
11	Low Red/Far-Red Ratios Reduce Arabidopsis Resistance to <i>Botrytis cinerea</i> and Jasmonate Responses via a COI1-JAZ10-Dependent, Salicylic Acid-Independent Mechanism Â. Plant Physiology, 2012, 158, 2042-2052.	4.8	180
12	Interactions between Ethylene and Gibberellins in Phytochrome-Mediated Shade Avoidance Responses in Tobacco. Plant Physiology, 2004, 136, 2928-2936.	4.8	174
13	Auxin and Ethylene Regulate Elongation Responses to Neighbor Proximity Signals Independent of Gibberellin and DELLA Proteins in Arabidopsis Â. Plant Physiology, 2009, 149, 1701-1712.	4.8	170
14	Far-Red Light Detection in the Shoot Regulates Lateral Root Development through the HY5 Transcription Factor. Plant Cell, 2018, 30, 101-116.	6.6	164
15	Molecular mechanisms of plant competition: neighbour detection and response strategies. Functional Ecology, 2013, 27, 841-853.	3.6	162
16	Biogenic volatile organic compounds and plant competition. Trends in Plant Science, 2010, 15, 126-132.	8.8	159
17	Light Quality-Mediated Petiole Elongation in Arabidopsis during Shade Avoidance Involves Cell Wall Modification by Xyloglucan Endotransglucosylase/Hydrolases À Â Â. Plant Physiology, 2010, 154, 978-990.	4.8	158
18	Canopy studies on ethylene-insensitive tobacco identify ethylene as a novel element in blue light and plant-plant signalling. Plant Journal, 2004, 38, 310-319.	5.7	156

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19	The Art of Being Flexible: How to Escape from Shade, Salt, and Drought. Plant Physiology, 2014, 166, 5-22.	4.8	155
20	Blueâ€lightâ€mediated shade avoidance requires combined auxin and brassinosteroid action in Arabidopsis seedlings. Plant Journal, 2011, 67, 208-217.	5.7	148
21	Integration of Phytochrome and Cryptochrome Signals Determines Plant Growth during Competition for Light. Current Biology, 2016, 26, 3320-3326.	3.9	148
22	Cell Wall Modifying Proteins Mediate Plant Acclimatization to Biotic and Abiotic Stresses. Critical Reviews in Plant Sciences, 2011, 30, 548-562.	5.7	133
23	Two Rumex Species from Contrasting Hydrological Niches Regulate Flooding Tolerance through Distinct Mechanisms. Plant Cell, 2013, 25, 4691-4707.	6.6	133
24	Ethylene is required in tobacco to successfully compete with proximate neighbours. Plant, Cell and Environment, 2003, 26, 1229-1234.	5.7	130
25	Canopy Light and Plant Health. Plant Physiology, 2012, 160, 145-155.	4.8	128
26	Flooding tolerance of Carex species in relation to field distribution and aerenchyma formation. New Phytologist, 2000, 148, 93-103.	7.3	122
27	Neighbor detection at the leaf tip adaptively regulates upward leaf movement through spatial auxin dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7450-7455.	7.1	118
28	Ethylene-Induced Differential Growth of Petioles in Arabidopsis. Analyzing Natural Variation, Response Kinetics, and Regulation. Plant Physiology, 2005, 137, 998-1008.	4.8	116
29	Natural variation of submergence tolerance among <i>Arabidopsis thaliana</i> accessions. New Phytologist, 2011, 190, 299-310.	7.3	114
30	Growth Control by Ethylene: Adjusting Phenotypes to the Environment. Journal of Plant Growth Regulation, 2007, 26, 188-200.	5.1	108
31	Contrasting root behaviour in two grass species: a test of functionality in dynamic heterogeneous conditions. Plant and Soil, 2011, 344, 347-360.	3.7	107
32	Ecology of plant volatiles: taking a plant community perspective. Plant, Cell and Environment, 2014, 37, 1845-1853.	5.7	103
33	Competing neighbors: light perception and root function. Oecologia, 2014, 176, 1-10.	2.0	91
34	The Regulation of Cell Wall Extensibility during Shade Avoidance: A Study Using Two Contrasting Ecotypes of <i>Stellaria longipes</i> . Plant Physiology, 2008, 148, 1557-1569.	4.8	89
35	Plant neighbor detection through touching leaf tips precedes phytochrome signals. Proceedings of the United States of America, 2012, 109, 14705-14710.	7.1	89
36	Three Auxin Response Factors Promote Hypocotyl Elongation. Plant Physiology, 2018, 178, 864-875.	4.8	79

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37	ls elongation-induced leaf emergence beneficial for submerged Rumex species?. Annals of Botany, 2009, 103, 353-357.	2.9	78
38	Physiological regulation and functional significance of shade avoidance responses to neighbors. Plant Signaling and Behavior, 2010, 5, 655-662.	2.4	78
39	Canopy light cues affect emission of constitutive and methyl jasmonateâ€induced volatile organic compounds in <i><scp>A</scp>rabidopsis thaliana</i> . New Phytologist, 2013, 200, 861-874.	7.3	78
40	Plant Phenotypic and Transcriptional Changes Induced by Volatiles from the Fungal Root Pathogen Rhizoctonia solani. Frontiers in Plant Science, 2017, 8, 1262.	3.6	78
41	Differential petiole growth in <i>Arabidopsis thaliana</i> : photocontrol and hormonal regulation. New Phytologist, 2009, 184, 141-152.	7.3	77
42	Ethyleneâ€induced differential petiole growth in <i>Arabidopsis thaliana</i> involves local microtubule reorientation and cell expansion. New Phytologist, 2012, 193, 339-348.	7.3	74
43	Light signalling shapes plant–plant interactions in dense canopies. Plant, Cell and Environment, 2021, 44, 1014-1029.	5.7	71
44	A functional comparison of acclimation to shade and submergence in two terrestrial plant species. New Phytologist, 2005, 167, 197-206.	7.3	64
45	Molecular Profiles of Contrasting Shade Response Strategies in Wild Plants: Differential Control of Immunity and Shoot Elongation. Plant Cell, 2017, 29, 331-344.	6.6	63
46	Control of Plant Growth and Defense by Photoreceptors: From Mechanisms to Opportunities in Agriculture. Molecular Plant, 2021, 14, 61-76.	8.3	61
47	Inhibition of root elongation by ethylene in wetland and non-wetland plant species and the impact of longitudinal ventilation. Plant, Cell and Environment, 2007, 30, 31-38.	5.7	56
48	Ethylene- and shade-induced hypocotyl elongation share transcriptome patterns and functional regulators. Plant Physiology, 2016, 172, pp.00725.2016.	4.8	54
49	New Perspectives in Flooding Research: the Use of Shade Avoidance and Arabidopsis thaliana. Annals of Botany, 2005, 96, 533-540.	2.9	53
50	Different shades of <scp>JAZ</scp> during plant growth and defense. New Phytologist, 2014, 204, 261-264.	7.3	53
51	Soil Salinity Limits Plant Shade Avoidance. Current Biology, 2019, 29, 1669-1676.e4.	3.9	52
52	Far-red radiation increases dry mass partitioning to fruits but reduces Botrytis cinerea resistance in tomato. Environmental and Experimental Botany, 2019, 168, 103889.	4.2	51
53	Endogenous Abscisic Acid as a Key Switch for Natural Variation in Flooding-Induced Shoot Elongation Â. Plant Physiology, 2010, 154, 969-977.	4.8	50
54	Plasticity as a plastic response: how submergenceâ€induced leaf elongation in <i>Rumex palustris</i> depends on light and nutrient availability in its early life stage. New Phytologist, 2012, 194, 572-582.	7.3	50

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55	Growthâ€mediated stress escape: convergence of signal transduction pathways activated upon exposure to two different environmental stresses. New Phytologist, 2011, 189, 122-134.	7.3	49
56	Fitness consequences of natural variation in floodingâ€induced shoot elongation in <i>Rumex palustris</i> . New Phytologist, 2011, 190, 409-420.	7.3	49
57	Studies of <i>Physcomitrella patens</i> reveal that ethyleneâ€mediated submergence responses arose relatively early in landâ€plant evolution. Plant Journal, 2012, 72, 947-959.	5.7	49
58	Canopy Light Quality Modulates Stress Responses in Plants. IScience, 2019, 22, 441-452.	4.1	45
59	Farâ€red light promotes <i>Botrytis cinerea</i> disease development in tomato leaves via jasmonateâ€dependent modulation of soluble sugars. Plant, Cell and Environment, 2020, 43, 2769-2781.	5.7	43
60	Red:far-red light conditions affect the emission of volatile organic compounds from barley (<i>Hordeum vulgare</i>), leading to altered biomass allocation in neighbouring plants. Annals of Botany, 2015, 115, 961-970.	2.9	41
61	An Ancestral Role for CONSTITUTIVE TRIPLE RESPONSE1 Proteins in Both Ethylene and Abscisic Acid Signaling. Plant Physiology, 2015, 169, 283-298.	4.8	41
62	Ethylene promotes hyponastic growth through interaction with ROTUNDIFOLIA3/CYP90C1 in Arabidopsis. Journal of Experimental Botany, 2013, 64, 613-624.	4.8	40
63	<scp>RNA</scp> seq reveals weedâ€induced <scp>PIF</scp> 3â€like as a candidate target to manipulate weed stress response in soybean. New Phytologist, 2015, 207, 196-210.	7.3	40
64	The bHLH network underlying plant shadeâ€avoidance. Physiologia Plantarum, 2020, 169, 312-324.	5.2	40
65	Subtle variation in shade avoidance responses may have profound consequences for plant competitiveness. Annals of Botany, 2018, 121, 863-873.	2.9	39
66	Blue light regulated shade avoidance. Plant Signaling and Behavior, 2012, 7, 514-517.	2.4	36
67	Photoreceptors Regulate Plant Developmental Plasticity through Auxin. Plants, 2020, 9, 940.	3.5	36
68	Plant Stress Profiles. Science, 2008, 320, 880-881.	12.6	35
69	Interactions between Auxin, Microtubules and XTHs Mediate Green Shade- Induced Petiole Elongation in Arabidopsis. PLoS ONE, 2014, 9, e90587.	2.5	35
70	From shade avoidance responses to plant performance at vegetation level: using virtual plant modelling as a tool. New Phytologist, 2014, 204, 268-272.	7.3	31
71	Antiphase Light and Temperature Cycles Affect PHYTOCHROME B-Controlled Ethylene Sensitivity and Biosynthesis, Limiting Leaf Movement and Growth of Arabidopsis. Plant Physiology, 2013, 163, 882-895.	4.8	28
72	Ethylene sensitivity affects changes in growth patterns, but not stem properties, in response to mechanical stress in tobacco. Physiologia Plantarum, 2006, 128, 274-282.	5.2	27

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73	Petiole hyponasty: an ethylene-driven, adaptive response to changes in the environment. AoB PLANTS, 2011, 2011, plr031.	2.3	27
74	Thick Root Syndrome in Cucumber (Cucumis sativus L.): A Description of the Phenomenon and an Investigation of the Role of Ethylene. Annals of Botany, 1999, 84, 755-762.	2.9	26
75	Densityâ€Induced Plant Size Reduction and Size Inequalities in Ethyleneâ€Sensing and Ethyleneâ€Insensitive Tobacco. Plant Biology, 2004, 6, 201-205.	3.8	23
76	Reducing shade avoidance can improve Arabidopsis canopy performance against competitors. Plant, Cell and Environment, 2021, 44, 1130-1141.	5.7	23
77	Illumina Sequencing Technology as a Method of Identifying T-DNA Insertion Loci in Activation-Tagged Arabidopsis thaliana Plants. Molecular Plant, 2012, 5, 948-950.	8.3	22
78	Ethylene-Mediated Regulation of A2-Type CYCLINs Modulates Hyponastic Growth in Arabidopsis Â. Plant Physiology, 2015, 169, 194-208.	4.8	22
79	Regulation of Lateral Root Development by Shoot-Sensed Far-Red Light via HY5 Is Nitrate-Dependent and Involves the NRT2.1 Nitrate Transporter. Frontiers in Plant Science, 2021, 12, 660870.	3.6	21
80	Plant Life without Ethylene. Trends in Plant Science, 2015, 20, 783-786.	8.8	18
81	Location Matters: Canopy Light Responses over Spatial Scales. Trends in Plant Science, 2018, 23, 865-873.	8.8	18
82	The Dynamic Plant: Capture, Transformation, and Management of Energy. Plant Physiology, 2018, 176, 961-966.	4.8	16
83	How light and biomass density influence the reproduction of delayed <i>Saccharina latissima</i> gametophytes (Phaeophyceae). Journal of Phycology, 2020, 56, 709-718.	2.3	16
84	Cell wall modification involving XTHs controls phytochrome-mediated petiole elongation in <i>Arabidopsis thaliana</i> . Plant Signaling and Behavior, 2010, 5, 1491-1492.	2.4	15
85	Light quality controls shoot elongation through regulation of multiple hormones. Plant Signaling and Behavior, 2009, 4, 755-756.	2.4	14
86	Photomorphogenesis and Photoreceptors. Advances in Photosynthesis and Respiration, 2016, , 171-186.	1.0	14
87	Variation in plastic responses to light results from selection in different competitive environments—A game theoretical approach using virtual plants. PLoS Computational Biology, 2019, 15, e1007253.	3.2	14
88	Mechanisms of far-red light-mediated dampening of defense against <i>Botrytis cinerea</i> in tomato leaves. Plant Physiology, 2021, 187, 1250-1266.	4.8	14
89	Moving resources away from the herbivore: regulation and adaptive significance. New Phytologist, 2010, 188, 643-645.	7.3	13
90	A kinetic analysis of hyponastic growth and petiole elongation upon ethylene exposure in Rumex palustris. Annals of Botany, 2010, 106, 429-435.	2.9	13

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91	A Gas-and-Brake Mechanism of bHLH Proteins Modulates Shade Avoidance. Plant Physiology, 2020, 184, 2137-2153.	4.8	13
92	Architecture and plasticity: optimizing plant performance in dynamic environments. Plant Physiology, 2021, 187, 1029-1032.	4.8	12
93	Auxin perception and polar auxin transport are not always a prerequisite for differential growth. Plant Signaling and Behavior, 2009, 4, 899-901.	2.4	11
94	Organâ€specific phytohormone synthesis in two <i>Geranium</i> species with antithetical responses to farâ€red light enrichment. Plant Direct, 2018, 2, e00066.	1.9	10
95	The role of seasonality in reproduction of multiannual delayed gametophytes of <i>Saccharina latissima</i> . Journal of Phycology, 2021, 57, 1580-1589.	2.3	8
96	A plant chamber system with downstream reaction chamber to study the effects of pollution on biogenic emissions. Environmental Sciences: Processes and Impacts, 2014, 16, 2301-2312.	3.5	7
97	A molecular basis for the physiological variation in shade avoidance responses. Plant Signaling and Behavior, 2009, 4, 528-529.	2.4	5
98	In-Culture Selection and the Potential Effects of Changing Sex Ratios on the Reproductive Success of Multiannual Delayed Gametophytes of Saccharina latissima and Alaria esculenta. Journal of Marine Science and Engineering, 2021, 9, 1250.	2.6	4
99	Struggling for Light. Plant Signaling and Behavior, 2007, 2, 512-513.	2.4	2
100	Beating the blues: engineering cryptochrome expression improves soybean yield. Molecular Plant, 2021, 14, 202-204.	8.3	2
101	Plant Competition: Light Signals Control Polar Auxin Transport. Signaling and Communication in Plants, 2013, , 281-293.	0.7	2
102	The SeaCoRe system for large scale kelp aquaculture: a plug-and-play, compatible, open-source system for the propagation and transport of clonal gametophyte cultures. Journal of Applied Phycology, 2022, 34, 517-527.	2.8	2
103	Photosensory Cues in Plant–Plant Interactions: Regulation and Functional Significance of Shade Avoidance Responses. Signaling and Communication in Plants, 2010, , 159-178.	0.7	1
104	Warm days, relaxed RNA. Nature Plants, 2020, 6, 438-439.	9.3	0