Ronald Pierik

List of Publications by Year
in descending order

104 papers	8,472 citations	44069 48 h-index	48315 88 g-index
115 all docs	115 docs citations	115 times ranked	7389 citing authors

#	Article	IF	Citations
1	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
2	Reducing shade avoidance can improve Arabidopsis canopy performance against competitors. Plant, Cell and Environment, 2021, 44, 1130-1141.	5.7	23
3	Light signalling shapes plantâ€“plant interactions in dense canopies. Plant, Cell and Environment, 2021, 44, 1014-1029.	5.7	71
4	Control of Plant Growth and Defense by Photoreceptors: From Mechanisms to Opportunities in Agriculture. Molecular Plant, 2021, 14, 61-76.	8.3	61
5	Beating the blues: engineering cryptochrome expression improves soybean yield. Molecular Plant, 2021, 14, 202-204.	8.3	2
6	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
7	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
8	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
9	Architecture and plasticity: optimizing plant performance in dynamic environments. Plant Physiology, 2021, 187, 1029-1032.	4.8	12
10	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
11	A Gas-and-Brake Mechanism of bHLH Proteins Modulates Shade Avoidance. Plant Physiology, 2020, 184, 2137-2153.	4.8	13
12	Photoreceptors Regulate Plant Developmental Plasticity through Auxin. Plants, 2020, 9, 940.	3.5	36
13	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
14	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
15	The bHLH network underlying plant shadeâ€avoidance. Physiologia Plantarum, 2020, 169, 312-324.	5.2	40
16	Warm days, relaxed RNA. Nature Plants, 2020, 6, 438-439.	9.3	0
17	Variation in plastic responses to light results from selection in different competitive environmentsâ€"A game theoretical approach using virtual plants. PLoS Computational Biology, 2019, 15, e1007253.	3.2	14
18	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

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19	Soil Salinity Limits Plant Shade Avoidance. Current Biology, 2019, 29, 1669-1676.e4.	3.9	52
20	Canopy Light Quality Modulates Stress Responses in Plants. IScience, 2019, 22, 441-452.	4.1	45
21	The Dynamic Plant: Capture, Transformation, and Management of Energy. Plant Physiology, 2018, 176, 961-966.	4.8	16
22	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
23	Subtle variation in shade avoidance responses may have profound consequences for plant competitiveness. Annals of Botany, 2018, 121, 863-873.	2.9	39
24	Light Signaling, Root Development, and Plasticity. Plant Physiology, 2018, 176, 1049-1060.	4.8	181
25	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
26	Location Matters: Canopy Light Responses over Spatial Scales. Trends in Plant Science, 2018, 23, 865-873.	8.8	18
27	Three Auxin Response Factors Promote Hypocotyl Elongation. Plant Physiology, 2018, 178, 864-875.	4.8	79
28	The shadeâ€avoidance syndrome: multiple signals and ecological consequences. Plant, Cell and Environment, 2017, 40, 2530-2543.	5.7	342
29	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
30	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
31	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
32	Integration of Phytochrome and Cryptochrome Signals Determines Plant Growth during Competition for Light. Current Biology, 2016, 26, 3320-3326.	3.9	148
33	Ethylene- and shade-induced hypocotyl elongation share transcriptome patterns and functional regulators. Plant Physiology, 2016, 172, pp.00725.2016.	4.8	54
34	Photomorphogenesis and Photoreceptors. Advances in Photosynthesis and Respiration, 2016, , 171-186.	1.0	14
35	Ethylene-Mediated Regulation of A2-Type CYCLINs Modulates Hyponastic Growth in Arabidopsis Â. Plant Physiology, 2015, 169, 194-208.	4.8	22
36	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

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37	<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
38	An Ancestral Role for CONSTITUTIVE TRIPLE RESPONSE1 Proteins in Both Ethylene and Abscisic Acid Signaling. Plant Physiology, 2015, 169, 283-298.	4.8	41
39	Plant Life without Ethylene. Trends in Plant Science, 2015, 20, 783-786.	8.8	18
40	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
41	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
42	The Art of Being Flexible: How to Escape from Shade, Salt, and Drought. Plant Physiology, 2014, 166, 5-22.	4.8	155
43	Different shades of <scp>JAZ</scp> during plant growth and defense. New Phytologist, 2014, 204, 261-264.	7.3	53
44	Ecology of plant volatiles: taking a plant community perspective. Plant, Cell and Environment, 2014, 37, 1845-1853.	5.7	103
45	Shade avoidance: phytochrome signalling and other aboveground neighbour detection cues. Journal of Experimental Botany, 2014, 65, 2815-2824.	4.8	206
46	Competing neighbors: light perception and root function. Oecologia, 2014, 176, 1-10.	2.0	91
47	Interactions between Auxin, Microtubules and XTHs Mediate Green Shade- Induced Petiole Elongation in Arabidopsis. PLoS ONE, 2014, 9, e90587.	2.5	35
48	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
49	Two Rumex Species from Contrasting Hydrological Niches Regulate Flooding Tolerance through Distinct Mechanisms. Plant Cell, 2013, 25, 4691-4707.	6.6	133
50	Shade tolerance: when growing tall is not an option. Trends in Plant Science, 2013, 18, 65-71.	8.8	322
51	Molecular mechanisms of plant competition: neighbour detection and response strategies. Functional Ecology, 2013, 27, 841-853.	3.6	162
52	Perception of low red:farâ€red ratio compromises both salicylic acidâ€and jasmonic acidâ€dependent pathogen defences in <scp>A</scp>rabidopsis. Plant Journal, 2013, 75, 90-103.	5.7	181
53	Ethylene promotes hyponastic growth through interaction with ROTUNDIFOLIA3/CYP90C1 in Arabidopsis. Journal of Experimental Botany, 2013, 64, 613-624.	4.8	40
54	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

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55	Plant Competition: Light Signals Control Polar Auxin Transport. Signaling and Communication in Plants, 2013, , 281-293.	0.7	2
56	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 Â Â. Plant Physiology, 2012, 158, 2042-2052.	4.8	180
57	Plant neighbor detection through touching leaf tips precedes phytochrome signals. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14705-14710.	7.1	89
58	Canopy Light and Plant Health. Plant Physiology, 2012, 160, 145-155.	4.8	128
59	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
60	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
61	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
62	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
63	Blue light regulated shade avoidance. Plant Signaling and Behavior, 2012, 7, 514-517.	2.4	36
64	Blueâ€lightâ€mediated shade avoidance requires combined auxin and brassinosteroid action in Arabidopsis seedlings. Plant Journal, 2011, 67, 208-217.	5.7	148
65	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
66	Natural variation of submergence tolerance among <i>Arabidopsis thaliana</i> accessions. New Phytologist, 2011, 190, 299-310.	7.3	114
67	Fitness consequences of natural variation in floodingâ€induced shoot elongation in <i>Rumex palustris</i>. New Phytologist, 2011, 190, 409-420.	7.3	49
68	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
69	Cell Wall Modifying Proteins Mediate Plant Acclimatization to Biotic and Abiotic Stresses. Critical Reviews in Plant Sciences, 2011, 30, 548-562.	5.7	133
70	Petiole hyponasty: an ethylene-driven, adaptive response to changes in the environment. AoB PLANTS, 2011, 2011, plr031.	2.3	27
71	Endogenous Abscisic Acid as a Key Switch for Natural Variation in Flooding-Induced Shoot Elongation Â Â. Plant Physiology, 2010, 154, 969-977.	4.8	50
72	Moving resources away from the herbivore: regulation and adaptive significance. New Phytologist, 2010, 188, 643-645.	7.3	13

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73	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
74	Physiological regulation and functional significance of shade avoidance responses to neighbors. Plant Signaling and Behavior, 2010, 5, 655-662.	2.4	78
75	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
76	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
77	Biogenic volatile organic compounds and plant competition. Trends in Plant Science, 2010, 15, 126-132.	8.8	159
78	Light Quality-Mediated Petiole Elongation in Arabidopsis during Shade Avoidance Involves Cell Wall Modification by Xyloglucan Endotransglucosylase/Hydrolases Â Â Â. Plant Physiology, 2010, 154, 978-990.	4.8	158
79	Photosensory Cues in Plantâ€"Plant Interactions: Regulation and Functional Significance of Shade Avoidance Responses. Signaling and Communication in Plants, 2010, , 159-178.	0.7	1
80	A molecular basis for the physiological variation in shade avoidance responses. Plant Signaling and Behavior, 2009, 4, 528-529.	2.4	5
81	Light quality controls shoot elongation through regulation of multiple hormones. Plant Signaling and Behavior, 2009, 4, 755-756.	2.4	14
82	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
83	Auxin and Ethylene Regulate Elongation Responses to Neighbor Proximity Signals Independent of Gibberellin and DELLA Proteins in Arabidopsis Â Â Â. Plant Physiology, 2009, 149, 1701-1712.	4.8	170
84	Is elongation-induced leaf emergence beneficial for submerged Rumex species?. Annals of Botany, 2009, 103, 353-357.	2.9	78
85	Differential petiole growth in <i>Arabidopsis thaliana</i>: photocontrol and hormonal regulation. New Phytologist, 2009, 184, 141-152.	7.3	77
86	Plant Stress Profiles. Science, 2008, 320, 880-881.	12.6	35
87	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
88	Struggling for Light. Plant Signaling and Behavior, 2007, 2, 512-513.	2.4	2
89	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
90	DELLA protein function in growth responses to canopy signals. Plant Journal, 2007, 51, 117-126.	5.7	209

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91	Growth Control by Ethylene: Adjusting Phenotypes to the Environment. Journal of Plant Growth Regulation, 2007, 26, 188-200.	5.1	108
92	The Janus face of ethylene: growth inhibition and stimulation. Trends in Plant Science, 2006, 11, 176-183.	8.8	398
93	How plants cope with complete submergence. New Phytologist, 2006, 170, 213-226.	7.3	465
94	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
95	A functional comparison of acclimation to shade and submergence in two terrestrial plant species. New Phytologist, 2005, 167, 197-206.	7.3	64
96	Reaching out of the shade. Current Opinion in Plant Biology, 2005, 8, 462-468.	7.1	222
97	Ethylene-Induced Differential Growth of Petioles in Arabidopsis. Analyzing Natural Variation, Response Kinetics, and Regulation. Plant Physiology, 2005, 137, 998-1008.	4.8	116
98	New Perspectives in Flooding Research: the Use of Shade Avoidance and Arabidopsis thaliana. Annals of Botany, 2005, 96, 533-540.	2.9	53
99	Interactions between Ethylene and Gibberellins in Phytochrome-Mediated Shade Avoidance Responses in Tobacco. Plant Physiology, 2004, 136, 2928-2936.	4.8	174
100	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
101	Densityâ€Induced Plant Size Reduction and Size Inequalities in Ethyleneâ€Sensing and Ethyleneâ€Insensitive Tobacco. Plant Biology, 2004, 6, 201-205.	3.8	23
102	Ethylene is required in tobacco to successfully compete with proximate neighbours. Plant, Cell and Environment, 2003, 26, 1229-1234.	5.7	130
103	Flooding tolerance of Carex species in relation to field distribution and aerenchyma formation. New Phytologist, 2000, 148, 93-103.	7.3	122
104	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