Vaughan Hurry

List of Publications by Year
in descending order

91 papers	9,457 citations	36303 51 h-index	49909 87 g-index
95 all docs	95 docs citations	95 times ranked	9745 citing authors

#	Article	IF	Citations
1	Chlorophyll Fluorescence Analysis of Cyanobacterial Photosynthesis and Acclimation. Microbiology and Molecular Biology Reviews, 1998, 62, 667-683.	6.6	677
2	Photosynthesis, photoinhibition and low temperature acclimation in cold tolerant plants. Photosynthesis Research, 1993, 37, 19-39.	2.9	471
3	Chapter 2 Cold Signalling and Cold Acclimation in Plants. Advances in Botanical Research, 2009, 49, 35-150.	1.1	445
4	The hot and the cold: unravelling the variable response of plant respiration to temperature. Functional Plant Biology, 2005, 32, 87.	2.1	422
5	A plant for all seasons: alterations in photosynthetic carbon metabolism during cold acclimation in Arabidopsis. Current Opinion in Plant Biology, 2002, 5, 199-206.	7.1	344
6	Quantification of effects of season and nitrogen supply on tree belowâ€ground carbon transfer to ectomycorrhizal fungi and other soil organisms in a boreal pine forest. New Phytologist, 2010, 187, 485-493.	7.3	340
7	High temporal resolution tracing of photosynthate carbon from the tree canopy to forest soil microorganisms. New Phytologist, 2008, 177, 220-228.	7.3	317
8	Acclimation of Arabidopsis Leaves Developing at Low Temperatures. Increasing Cytoplasmic Volume Accompanies Increased Activities of Enzymes in the Calvin Cycle and in the Sucrose-Biosynthesis Pathway1. Plant Physiology, 1999, 119, 1387-1398.	4.8	292
9	Cold Hardening of Spring and Winter Wheat and Rape Results in Differential Effects on Growth, Carbon Metabolism, and Carbohydrate Content. Plant Physiology, 1995, 109, 697-706.	4.8	246
10	Enhanced tolerance to bacterial pathogens caused by the transgenic expression of barley lipid transfer protein LTP2. Plant Journal, 1997, 12, 669-675.	5.7	239
11	The CBF1-dependent low temperature signalling pathway, regulon and increase in freeze tolerance are conserved in Populus spp.. Plant, Cell and Environment, 2006, 29, 1259-1272.	5.7	221
12	Are ectomycorrhizal fungi alleviating or aggravating nitrogen limitation of tree growth in boreal forests?. New Phytologist, 2013, 198, 214-221.	7.3	214
13	Thermal limits of leaf metabolism across biomes. Global Change Biology, 2017, 23, 209-223.	9.5	213
14	The chloroplast lumen and stromal proteomes ofArabidopsis thalianashow differential sensitivity to short- and long-term exposure to low temperature. Plant Journal, 2006, 47, 720-734.	5.7	207
15	Convergence in the temperature response of leaf respiration across biomes and plant functional types. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3832-3837.	7.1	198
16	Acclimation of photosynthesis and respiration is asynchronous in response to changes in temperature regardless of plant functional group. New Phytologist, 2007, 176, 375-389.	7.3	191
17	Altering flux through the sucrose biosynthesis pathway in transgenic Arabidopsis thaliana modifies photosynthetic acclimation at low temperatures and the development of freezing tolerance. Plant, Cell and Environment, 2003, 26, 523-535.	5.7	174
18	Development of Arabidopsis thaliana leaves at low temperatures releases the suppression of photosynthesis and photosynthetic gene expression despite the accumulation of soluble carbohydrates. Plant Journal, 1997, 12, 605-614.	5.7	171

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19	The role of inorganic phosphate in the development of freezing tolerance and the acclimatization of photosynthesis to low temperature is revealed by the pho mutants of Arabidopsis thaliana. Plant Journal, 2000, 24, 383-396.	5.7	160
20	Concepts of plant biotic stress. Some insights into the stress physiology of virus-infected plants, from the perspective of photosynthesis. Physiologia Plantarum, 1997, 100, 203-213.	5.2	159
21	Using temperatureâ€dependent changes in leaf scaling relationships to quantitatively account for thermal acclimation of respiration in a coupled global climateâ€"vegetation model. Global Change Biology, 2008, 14, 2709-2726.	9.5	155
22	Sucrose-feeding leads to increased rates of nitrate assimilation, increased rates of Î±-oxoglutarate synthesis, and increased synthesis of a wide spectrum of amino acids in tobacco leaves. Planta, 1998, 206, 394-409.	3.2	152
23	Role of CBFs as Integrators of Chloroplast Redox, Phytochrome and Plant Hormone Signaling during Cold Acclimation. International Journal of Molecular Sciences, 2013, 14, 12729-12763.	4.1	132
24	Phosphate status affects the gene expression, protein content and enzymatic activity of UDP-glucose pyrophosphorylase in wild-type and pho mutants of Arabidopsis. Planta, 2001, 212, 598-605.	3.2	128
25	Effects of a Short-Term Shift to Low Temperature and of Long-Term Cold Hardening on Photosynthesis and Ribulose-1,5-Bisphosphate Carboxylase/Oxygenase and Sucrose Phosphate Synthase Activity in Leaves of Winter Rye (Secale cereale L.). Plant Physiology, 1994, 106, 983-990.	4.8	127
26	Cold acclimation of Arabidopsis thaliana results in incomplete recovery of photosynthetic capacity, associated with an increased reduction of the chloroplast stroma. Planta, 2001, 214, 295-303.	3.2	122
27	Low-Temperature Effects on Photosynthesis and Correlation with Freezing Tolerance in Spring and Winter Cultivars of Wheat and Rye. Plant Physiology, 1993, 101, 245-250.	4.8	120
28	The different fates of mitochondria and chloroplasts during darkâ€induced senescence in <i>Arabidopsis</i> leaves. Plant, Cell and Environment, 2007, 30, 1523-1534.	5.7	114
29	Stress-related hormones and glycinebetaine interplay in protection of photosynthesis under abiotic stress conditions. Photosynthesis Research, 2015, 126, 221-235.	2.9	113
30	Effect of Cold Hardening on Sensitivity of Winter and Spring Wheat Leaves to Short-Term Photoinhibition and Recovery of Photosynthesis. Plant Physiology, 1992, 100, 1283-1290.	4.8	112
31	IMMUTANS Does Not Act as a Stress-Induced Safety Valve in the Protection of the Photosynthetic Apparatus of Arabidopsis during Steady-State Photosynthesis. Plant Physiology, 2006, 142, 574-585.	4.8	112
32	Low-temperature stress and photoperiod affect an increased tolerance to photoinhibition in Pinus banksiana seedlings. Canadian Journal of Botany, 1995, 73, 1119-1127.	1.1	110
33	Implications of alternative electron sinks in increased resistance of PSII and PSI photochemistry to high light stress in cold-acclimated Arabidopsis thaliana. Photosynthesis Research, 2012, 113, 191-206.	2.9	106
34	Two functionally distinct forms of the photosystem II reaction-center protein D1 in the cyanobacterium Synechococcus sp. PCC 7942.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 11985-11989.	7.1	87
35	Low Growth Temperature Effects a Differential Inhibition of Photosynthesis in Spring and Winter Wheat. Plant Physiology, 1991, 96, 491-497.	4.8	85
36	Photosystem II reaction centre quenching: mechanisms and physiological role. Photosynthesis Research, 2008, 98, 565-574.	2.9	85

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37	Consensus by Democracy. Using Meta-Analyses of Microarray and Genomic Data to Model the Cold Acclimation Signaling Pathway in Arabidopsis. Plant Physiology, 2006, 141, 1219-1232.	4.8	75
38	Differential susceptibility of Photosystem II to light stress in light-acclimated pea leaves depends on the capacity for photochemical and non-radiative dissipation of light. Plant Science, 1996, 115, 137-149.	3.6	69
39	Carbon partitioning and export in transgenic Arabidopsis thaliana with altered capacity for sucrose synthesis grown at low temperature: a role for metabolite transporters. Plant, Cell and Environment, 2006, 29, 1703-1714.	5.7	68
40	Does growth irradiance affect temperature dependence and thermal acclimation of leaf respiration? Insights from a Mediterranean tree with long-lived leaves. Plant, Cell and Environment, 2007, 30, 820-833.	5.7	67
41	A nuclear-encoded ClpP subunit of the chloroplast ATP-dependent Clp protease is essential for early development in Arabidopsis thaliana. Planta, 2006, 224, 1103-1115.	3.2	66
42	Changes in the Redox Potential of Primary and Secondary Electron-Accepting Quinones in Photosystem II Confer Increased Resistance to Photoinhibition in Low-Temperature-Acclimated Arabidopsis. Plant Physiology, 2003, 132, 2144-2151.	4.8	64
43	Microbial community response to growing season and plant nutrient optimisation in a boreal Norway spruce forest. Soil Biology and Biochemistry, 2018, 125, 197-209.	8.8	64
44	Can Antarctic lichens acclimatize to changes in temperature?. Global Change Biology, 2018, 24, 1123-1135.	9.5	63
45	Digalactosyl-Diacylglycerol Deficiency Impairs the Capacity for Photosynthetic Intersystem Electron Transport and State Transitions in Arabidopsis thaliana Due to Photosystem I Acceptor-Side Limitations. Plant and Cell Physiology, 2006, 47, 1146-1157.	3.1	60
46	Low-temperature modulation of the redox properties of the acceptor side of photosystem II: photoprotection through reaction centre quenching of excess energy. Physiologia Plantarum, 2003, 119, 376-383.	5.2	59
47	Respiration in Photosynthetic Cells: Gas Exchange Components, Interactions with Photorespiration and the Operation of Mitochondria in the Light. , 2005, , 43-61.		57
48	Reaction centre quenching of excess light energy and photoprotection of photosystem II. Journal of Plant Biology, 2008, 51, 85-96.	2.1	57
49	Leaf respiration and alternative oxidase in fieldâ€grown alpine grasses respond to natural changes in temperature and light. New Phytologist, 2011, 189, 1027-1039.	7.3	57
50	Allocation of carbon to fine root compounds and their residence times in a boreal forest depend on root size class and season. New Phytologist, 2012, 194, 972-981.	7.3	56
51	Effect of long-term photoinhibition on growth and photosynthesis of cold-hardened spring and winter wheat. Planta, 1992, 188, 369-75.	3.2	54
52	PREVALENCE OF RESPIRATORY SYMPTOMS, BRONCHIAL HYPERRESPONSIVENESS AND ATOPY IN SCHOOLCHILDREN LIVING IN THE VILLAWOOD AREA OF SYDNEY. Australian and New Zealand Journal of Medicine, 1988, 18, 745-752.	0.5	53
53	The role of mitochondrial electron transport during photosynthetic induction. A study with barley (Hordeum vulgare) protoplasts incubated with rotenone and oligomycin. Physiologia Plantarum, 1998, 104, 431-439.	5.2	48
54	Characterization of the photosynthetic apparatus in cortical bark chlorenchyma of Scots pine. Planta, 2006, 223, 1165-1177.	3.2	46

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55	Susceptibility to low-temperature photoinhibition and the acquisition of freezing tolerance in winter and spring wheat: The role of growth temperature and irradiance. Physiologia Plantarum, 2001, 113, 499-506.	5.2	45
56	Reduced sensitivity to photoinhibition following frost-hardening of winter rye is due to increased phosphate availability. Planta, 1993, 190, 484.	3.2	43
57	Molecular targets of elevated [CO2] in leaves and stems of Populus deltoides: implications for future tree growth and carbon sequestration. Functional Plant Biology, 2006, 33, 121.	2.1	41
58	Unintentional changes of defence traits in GM trees can influence plantâ€“herbivore interactions. Basic and Applied Ecology, 2007, 8, 434-443.	2.7	40
59	Impacts of experimentally imposed drought on leaf respiration and morphology in an Amazon rain forest. Functional Ecology, 2010, 24, 524-533.	3.6	39
60	Temperature dependence of respiration in roots colonized by arbuscular mycorrhizal fungi. New Phytologist, 2009, 182, 188-199.	7.3	38
61	Interaction of Glycine Betaine and Plant Hormones: Protection of the Photosynthetic Apparatus During Abiotic Stress. , 2017, , 185-202.		38
62	Nocturnal changes in leaf growth of Populus deltoides are controlled by cytoplasmic growth. Planta, 2006, 223, 1315-1328.	3.2	36
63	HSP90, ZTL, PRR5 and HY5 integrate circadian and plastid signaling pathways to regulate CBF and COR expression.. Plant Physiology, 2016, 171, pp.00374.2016.	4.8	36
64	Contrasting acclimation abilities of two dominant boreal conifers to elevated CO₂ and temperature. Plant, Cell and Environment, 2018, 41, 1331-1345.	5.7	36
65	Can leaf net photosynthesis acclimate to rising and more variable temperatures?. Plant, Cell and Environment, 2019, 42, 1913-1928.	5.7	35
66	Two dominant boreal conifers use contrasting mechanisms to reactivate photosynthesis in the spring. Nature Communications, 2020, 11, 128.	12.8	33
67	Reduced levels of cytochrome b 6/f in transgenic tobacco increases the excitation pressure on Photosystem II without increasing sensitivity to photoinhibition in vivo. Photosynthesis Research, 1996, 50, 159-169.	2.9	32
68	Development of Arabidopsis thaliana leaves at low temperatures releases the suppression of photosynthesis and photosynthetic gene expression despite the accumulation of soluble carbohydrates. Plant Journal, 1997, 12, 605-614.	5.7	31
69	Snowed in for survival: Quantifying the risk of winter damage to overwintering field crops in northern temperate latitudes. Agricultural and Forest Meteorology, 2014, 197, 65-75.	4.8	28
70	Cold acclimation of the Arabidopsis dgd1 mutant results in recovery from photosystem I-limited photosynthesis. FEBS Letters, 2006, 580, 4959-4968.	2.8	26
71	Impact of growth temperature on scaling relationships linking photosynthetic metabolism to leaf functional traits. Functional Ecology, 2010, 24, 1181-1191.	3.6	24
72	Candidate regulators and target genes of drought stress in needles and roots of Norway spruce. Tree Physiology, 2021, 41, 1230-1246.	3.1	20

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73	Low temperature maximizes growth of Crocus vernus (L.) Hill via changes in carbon partitioning and corm development. Journal of Experimental Botany, 2009, 60, 2203-2213.	4.8	19
74	Novel amplification of non-photochemical chlorophyll fluorescence quenching following viral infection inChlorella. FEBS Letters, 1996, 389, 319-323.	2.8	18
75	Concepts of plant biotic stress. Some insights into the stress physiology of virus-infected plants, from the perspective of photosynthesis. Physiologia Plantarum, 1997, 100, 203-213.	5.2	18
76	Acclimation of leaf respiration temperature responses across thermally contrasting biomes. New Phytologist, 2021, 229, 1312-1325.	7.3	17
77	Comparative Fungal Community Analyses Using Metatranscriptomics and Internal Transcribed Spacer Amplicon Sequencing from Norway Spruce. MSystems, 2021, 6, .	3.8	16
78	Plant cold and abiotic stress gets hot*. Physiologia Plantarum, 2006, 126, 1-4.	5.2	13
79	Photosynthesis at Low Temperatures. , 2002, , 161-179.		13
80	Metabolic reprogramming in response to cold stress is like real estate, it's all about location. Plant, Cell and Environment, 2017, 40, 599-601.	5.7	12
81	Metatranscriptomics captures dynamic shifts in mycorrhizal coordination in boreal forests. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	12
82	Low growth temperature inhibition of photosynthesis in cotyledons of jack pine seedlings (Pinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.1	10
83	Reply to Adams et al.: Empirical versus process-based approaches to modeling temperature responses of leaf respiration. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5996-E5997.	7.1	9
84	Informing climate models with rapid chamber measurements of forest carbon uptake. Global Change Biology, 2017, 23, 2130-2139.	9.5	9
85	Norway spruce deploys tissueâ€specific responses during acclimation to cold. Plant, Cell and Environment, 2022, 45, 427-445.	5.7	7
86	Vole response to unintentional changes in the chemistry of GM poplars. Chemoecology, 2008, 18, 227-231.	1.1	6
87	Genetics of superior growth traits in trees are being mapped but will the faster-growing risk-takers make it in the wild?. Tree Physiology, 2014, 34, 1141-1148.	3.1	5
88	Effects of Early, Small-Scale Nitrogen Addition on Germination and Early Growth of Scots Pine (Pinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 12, 1589.	2.1	3
89	Differences in growth-economics of fast vs. slow growing grass species in response to temperature and nitrogen limitation individually, and in combination. BMC Ecology, 2020, 20, 63.	3.0	2
90	New in Physiologia Plantarum. Physiologia Plantarum, 2005, 124, 1-3.	5.2	0

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91	Effects of Growth at Cold Hardening Temperatures and Temperature Shifts on Resistance to Photoinhibition. , 2018, , 103-112.		0