

John R Evans

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111
papers

11,291
citations

52
h-index

106
g-index

117
ext. papers

13,041
ext. citations

6
avg, IF

6.81
L-index

#	Paper	IF	Citations
111	Mesophyll conductance is unaffected by expression of Arabidopsis PIP1 aquaporins in the plasmalemma of Nicotiana.. <i>Journal of Experimental Botany</i> , 2022 ,	7	1
110	Wheat physiology predictor: predicting physiological traits in wheat from hyperspectral reflectance measurements using deep learning. <i>Plant Methods</i> , 2021 , 17, 108	5.8	4
109	Stomatal, mesophyll conductance, and biochemical limitations to photosynthesis during induction. <i>Plant Physiology</i> , 2021 , 185, 146-160	6.6	22
108	A reporting format for leaf-level gas exchange data and metadata. <i>Ecological Informatics</i> , 2021 , 61, 101232	4.2	11
107	A consensus on the Aquaporin Gene Family in the Allotetraploid Plant,. <i>Plant Direct</i> , 2021 , 5, e00321	3.3	1
106	Mesophyll conductance: walls, membranes and spatial complexity. <i>New Phytologist</i> , 2021 , 229, 1864-1876	6.8	20
105	Effect of leaf temperature on the estimation of photosynthetic and other traits of wheat leaves from hyperspectral reflectance. <i>Journal of Experimental Botany</i> , 2021 , 72, 1271-1281	7	7
104	Uncovering candidate genes involved in photosynthetic capacity using unexplored genetic variation in Spring Wheat. <i>Plant Biotechnology Journal</i> , 2021 , 19, 1537-1552	11.6	8
103	AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , 2021 , 8, 254	8.2	6
102	A Decrease in Mesophyll Conductance by Cell-Wall Thickening Contributes to Photosynthetic Downregulation. <i>Plant Physiology</i> , 2020 , 183, 1600-1611	6.6	10
101	Genome-wide identification and characterisation of Aquaporins in Nicotiana tabacum and their relationships with other Solanaceae species. <i>BMC Plant Biology</i> , 2020 , 20, 266	5.3	14
100	Effect of N supply on the carbon economy of barley when accounting for plant size. <i>Functional Plant Biology</i> , 2020 , 47, 368-381	2.7	3
99	Genetic variation for photosynthetic capacity and efficiency in spring wheat. <i>Journal of Experimental Botany</i> , 2020 , 71, 2299-2311	7	20
98	Predicting dark respiration rates of wheat leaves from hyperspectral reflectance. <i>Plant, Cell and Environment</i> , 2019 , 42, 2133-2150	8.4	32
97	Internal transport of CO from the root-zone to plant shoot is pH dependent. <i>Physiologia Plantarum</i> , 2019 , 165, 451-463	4.6	4
96	Effects of mesophyll conductance on vegetation responses to elevated CO concentrations in a land surface model. <i>Global Change Biology</i> , 2019 , 25, 1820-1838	11.4	17
95	The nitrogen cost of photosynthesis. <i>Journal of Experimental Botany</i> , 2019 , 70, 7-15	7	98


94	Embracing 3D Complexity in Leaf Carbon-Water Exchange. <i>Trends in Plant Science</i> , 2019 , 24, 15-24	13.1	32
93	Mesophyll conductance does not contribute to greater photosynthetic rate per unit nitrogen in temperate compared with tropical evergreen wet-forest tree leaves. <i>New Phytologist</i> , 2018 , 218, 492-503	9.8	21
92	Hyperspectral reflectance as a tool to measure biochemical and physiological traits in wheat. <i>Journal of Experimental Botany</i> , 2018 , 69, 483-496	7	127
91	Phosphorus deficiency alters scaling relationships between leaf gas exchange and associated traits in a wide range of contrasting Eucalyptus species. <i>Functional Plant Biology</i> , 2018 , 45, 813-826	2.7	5
90	Physiological and structural tradeoffs underlying the leaf economics spectrum. <i>New Phytologist</i> , 2017 , 214, 1447-1463	9.8	222
89	Biochemical model of C photosynthesis applied to wheat at different temperatures. <i>Plant, Cell and Environment</i> , 2017 , 40, 1552-1564	8.4	26
88	Effects of reduced carbonic anhydrase activity on CO ₂ assimilation rates in <i>Setaria viridis</i> : a transgenic analysis. <i>Journal of Experimental Botany</i> , 2017 , 68, 299-310	7	33
87	Light Quality Affects Chloroplast Electron Transport Rates Estimated from Chl Fluorescence Measurements. <i>Plant and Cell Physiology</i> , 2017 , 58, 1652-1660	4.9	16
86	Carbon dioxide and water transport through plant aquaporins. <i>Plant, Cell and Environment</i> , 2017 , 40, 938-961	8.4	67
85	Strong thermal acclimation of photosynthesis in tropical and temperate wet-forest tree species: the importance of altered Rubisco content. <i>Global Change Biology</i> , 2017 , 23, 2783-2800	11.4	59
84	Leaf-level photosynthetic capacity in lowland Amazonian and high-elevation Andean tropical moist forests of Peru. <i>New Phytologist</i> , 2017 , 214, 1002-1018	9.8	62
83	Association between water and carbon dioxide transport in leaf plasma membranes: assessing the role of aquaporins. <i>Plant, Cell and Environment</i> , 2017 , 40, 789-801	8.4	20
82	Online CO ₂ and H ₂ O oxygen isotope fractionation allows estimation of mesophyll conductance in C ₄ plants, and reveals that mesophyll conductance decreases as leaves age in both C ₄ and C ₃ plants. <i>New Phytologist</i> , 2016 , 210, 875-89	9.8	75
81	Temperature responses of photosynthesis and respiration in a sub-Antarctic megaherb from Heard Island. <i>Functional Plant Biology</i> , 2015 , 42, 552-564	2.7	1
80	Effects of elevated atmospheric CO ₂ concentrations, clipping regimen and differential day/night atmospheric warming on tissue nitrogen concentrations of a perennial pasture grass. <i>AoB PLANTS</i> , 2015 , 7,	2.9	4
79	Temperature responses of mesophyll conductance differ greatly between species. <i>Plant, Cell and Environment</i> , 2015 , 38, 629-37	8.4	188
78	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. <i>New Phytologist</i> , 2015 , 206, 614-36	9.8	244
77	PrometheusWiki Gold Leaf Protocol: gas exchange using LI-COR 6400. <i>Functional Plant Biology</i> , 2014 , 41, 223-226	2.7	29

76	Drought increases heat tolerance of leaf respiration in Eucalyptus globulus saplings grown under both ambient and elevated atmospheric [CO ₂] and temperature. <i>Journal of Experimental Botany</i> , 2014 , 65, 6471-85	7	25
75	Trait correlation networks: a whole-plant perspective on the recently criticized leaf economic spectrum. <i>New Phytologist</i> , 2014 , 201, 378-382	9.8	93
74	Exploiting transplastomically modified Rubisco to rapidly measure natural diversity in its carbon isotope discrimination using tuneable diode laser spectroscopy. <i>Journal of Experimental Botany</i> , 2014 , 65, 3759-67	7	10
73	Temperature response of carbon isotope discrimination and mesophyll conductance in tobacco. <i>Plant, Cell and Environment</i> , 2013 , 36, 745-56	8.4	147
72	The cyanobacterial CCM as a source of genes for improving photosynthetic CO ₂ fixation in crop species. <i>Journal of Experimental Botany</i> , 2013 , 64, 753-68	7	138
71	High-resolution temperature responses of leaf respiration in snow gum (<i>Eucalyptus pauciflora</i>) reveal high-temperature limits to respiratory function. <i>Plant, Cell and Environment</i> , 2013 , 36, 1268-84	8.4	75
70	Improving photosynthesis. <i>Plant Physiology</i> , 2013 , 162, 1780-93	6.6	205
69	Measurement of Mesophyll Conductance in Tobacco, Arabidopsis and Wheat Leaves with Tunable Diode Laser Absorption Spectroscopy. <i>Advanced Topics in Science and Technology in China</i> , 2013 , 751-755 ^{0.2}		1
68	Using a mathematical framework to examine physiological changes in winter wheat after livestock grazing: 2. Model validation and effects of grazing management. <i>Field Crops Research</i> , 2012 , 136, 127-137 ^{5.5}	5.5	25
67	Using a mathematical framework to examine physiological changes in winter wheat after livestock grazing. <i>Field Crops Research</i> , 2012 , 136, 116-126	5.5	22
66	Antisense reductions in the PsbO protein of photosystem II leads to decreased quantum yield but similar maximal photosynthetic rates. <i>Journal of Experimental Botany</i> , 2012 , 63, 4781-95	7	28
65	Using tunable diode laser spectroscopy to measure carbon isotope discrimination and mesophyll conductance to CO ₂ diffusion dynamically at different CO ₂ concentrations. <i>Plant, Cell and Environment</i> , 2011 , 34, 580-91	8.4	116
64	Temperature response of mesophyll conductance in cultivated and wild <i>Oryza</i> species with contrasting mesophyll cell wall thickness. <i>Plant, Cell and Environment</i> , 2011 , 34, 1999-2008	8.4	115
63	Dual-purpose cereals: can the relative influences of management and environment on crop recovery and grain yield be dissected?. <i>Crop and Pasture Science</i> , 2011 , 62, 930	2.2	71
62	Recovery dynamics of rainfed winter wheat after livestock grazing 1. Growth rates, grain yields, soil water use and water-use efficiency. <i>Crop and Pasture Science</i> , 2011 , 62, 947	2.2	41
61	Functional analysis of corn husk photosynthesis. <i>Plant Physiology</i> , 2011 , 156, 503-13	6.6	44
60	Recovery dynamics of rainfed winter wheat after livestock grazing 2. Light interception, radiation-use efficiency and dry-matter partitioning. <i>Crop and Pasture Science</i> , 2011 , 62, 960	2.2	32
59	The importance of energy balance in improving photosynthetic productivity. <i>Plant Physiology</i> , 2011 , 155, 70-8	6.6	296

58	Effects of growth and measurement light intensities on temperature dependence of CO ₂ assimilation rate in tobacco leaves. <i>Plant, Cell and Environment</i> , 2010 , 33, 332-43	8.4	115
57	Nitrogen fertilization enhances water-use efficiency in a saline environment. <i>Plant, Cell and Environment</i> , 2010 , 33, 344-57	8.4	39
56	Photosynthesis at an extreme end of the leaf trait spectrum: how does it relate to high leaf dry mass per area and associated structural parameters?. <i>Journal of Experimental Botany</i> , 2010 , 61, 3015-28	7	54
55	Enhancing C ₃ photosynthesis. <i>Plant Physiology</i> , 2010 , 154, 589-92	6.6	92
54	Growth of the C ₄ dicot <i>Flaveria bidentis</i> : photosynthetic acclimation to low light through shifts in leaf anatomy and biochemistry. <i>Journal of Experimental Botany</i> , 2010 , 61, 4109-22	7	93
53	Grazing winter wheat relieves plant water stress and transiently enhances photosynthesis. <i>Functional Plant Biology</i> , 2010 , 37, 726	2.7	43
52	Effects of growth temperature on photosynthetic gas exchange characteristics and hydraulic anatomy in leaves of two cold-climate <i>Poa</i> species. <i>Functional Plant Biology</i> , 2010 , 38, 54-62	2.7	11
51	A unique web resource for physiology, ecology and the environmental sciences: PrometheusWiki. <i>Functional Plant Biology</i> , 2010 , 37, 687	2.7	13
50	Chapter 8 Nitrogen and Water Use Efficiency of C ₄ Plants. <i>Advances in Photosynthesis and Respiration</i> , 2010 , 129-146	1.7	19
49	Leaf mesophyll diffusion conductance in 35 Australian sclerophylls covering a broad range of foliage structural and physiological variation. <i>Journal of Experimental Botany</i> , 2009 , 60, 2433-49	7	104
48	Influence of leaf dry mass per area, CO ₂ , and irradiance on mesophyll conductance in sclerophylls. <i>Journal of Experimental Botany</i> , 2009 , 60, 2303-14	7	129
47	Light and CO ₂ do not affect the mesophyll conductance to CO ₂ diffusion in wheat leaves. <i>Journal of Experimental Botany</i> , 2009 , 60, 2291-301	7	109
46	Potential errors in electron transport rates calculated from chlorophyll fluorescence as revealed by a multilayer leaf model. <i>Plant and Cell Physiology</i> , 2009 , 50, 698-706	4.9	44
45	Changes in nutritional value of cyanogenic <i>trifolium repens</i> grown at elevated atmospheric CO ₂ . <i>Journal of Chemical Ecology</i> , 2009 , 35, 476-8	2.7	22
44	Nitrogen in cell walls of sclerophyllous leaves accounts for little of the variation in photosynthetic nitrogen-use efficiency. <i>Plant, Cell and Environment</i> , 2009 , 32, 259-70	8.4	82
43	Stomatal crypts may facilitate diffusion of CO ₂ to adaxial mesophyll cells in thick sclerophylls. <i>Plant, Cell and Environment</i> , 2009 , 32, 1596-611	8.4	58
42	Growth and nutritive value of cassava (<i>Manihot esculenta</i> Cranz.) are reduced when grown in elevated CO ₂ . <i>Plant Biology</i> , 2009 , 11 Suppl 1, 76-82	3.7	73
41	Resistances along the CO ₂ diffusion pathway inside leaves. <i>Journal of Experimental Botany</i> , 2009 , 60, 2235-48	7	39 ^I

40	Estimating mesophyll conductance to CO ₂ : methodology, potential errors, and recommendations. <i>Journal of Experimental Botany</i> , 2009 , 60, 2217-34	7	241
39	Effects of elevated atmospheric CO ₂ , cutting frequency, and differential day/night atmospheric warming on root growth and turnover of Phalaris swards. <i>Global Change Biology</i> , 2007 , 13, 1040-1052	11.4	41
38	Resolving methane fluxes. <i>New Phytologist</i> , 2007 , 175, 1-4	9.8	22
37	A comment on the quantitative significance of aerobic methane release by plants. <i>Functional Plant Biology</i> , 2006 , 33, 521-530	2.7	93
36	Construction costs, chemical composition and payback time of high- and low-irradiance leaves. <i>Journal of Experimental Botany</i> , 2006 , 57, 355-71	7	148
35	Effects of water availability, nitrogen supply and atmospheric CO concentrations on plant nitrogen natural abundance values. <i>Functional Plant Biology</i> , 2006 , 33, 219-227	2.7	16
34	Phosphorus availability and elevated CO ₂ affect biological nitrogen fixation and nutrient fluxes in a clover-dominated sward. <i>New Phytologist</i> , 2006 , 169, 157-67	9.8	54
33	Photosynthesis within isobilateral Eucalyptus pauciflora leaves. <i>New Phytologist</i> , 2006 , 171, 771-82	9.8	57
32	Phosphorus status determines biomass response to elevated CO ₂ in a legume : C4 grass community. <i>Global Change Biology</i> , 2005 , 11, 051013014052003-???	11.4	10
31	Faster Rubisco is the key to superior nitrogen-use efficiency in NADP-malic enzyme relative to NAD-malic enzyme C4 grasses. <i>Plant Physiology</i> , 2005 , 137, 638-50	6.6	179
30	Chloroplast to Leaf. <i>Ecological Studies</i> , 2004 , 107-132	1.1	9
29	Chloroplast to Leaf. <i>Ecological Studies</i> , 2004 , 15-41	1.1	34
28	A simple new equation for the reversible temperature dependence of photosynthetic electron transport: a study on soybean leaf. <i>Functional Plant Biology</i> , 2004 , 31, 275-283	2.7	134
27	Phosphorus acquisition from soil by white lupin (<i>Lupinus albus</i> L.) and soybean (<i>Glycine max</i> L.), species with contrasting root development. <i>Plant and Soil</i> , 2003 , 248, 271-283	4.2	46
26	Phosphorus acquisition from soil by white lupin (<i>Lupinus albus</i> L.) and soybean (<i>Glycine max</i> L.), species with contrasting root development 2003 , 271-283		2
25	Acquisition and Diffusion of CO ₂ in Higher Plant Leaves. <i>Advances in Photosynthesis and Respiration</i> , 2000 , 321-351	1.7	116
24	Leaf respiration of snow gum in the light and dark. Interactions between temperature and irradiance. <i>Plant Physiology</i> , 2000 , 122, 915-23	6.6	226
23	Linking development and determinacy with organic acid efflux from proteoid roots of white lupin grown with low phosphorus and ambient or elevated atmospheric CO ₂ concentration. <i>Plant Physiology</i> , 1999 , 120, 705-16	6.6	189

22	Proteoid roots. Physiology and development. <i>Plant Physiology</i> , 1999 , 121, 317-24	6.6	193
21	Leaf anatomy enables more equal access to light and CO ₂ between chloroplasts. <i>New Phytologist</i> , 1999 , 143, 93-104	9.8	171
20	The response of fast- and slow-growing Acacia species to elevated atmospheric CO ₂ : an analysis of the underlying components of relative growth rate. <i>Oecologia</i> , 1999 , 120, 544-554	2.9	75
19	Photosynthetic nitrogen-use efficiency of species that differ inherently in specific leaf area. <i>Oecologia</i> , 1998 , 116, 26-37	2.9	405
18	Relationship between the inhibition of leaf respiration by light and enhancement of leaf dark respiration following light treatment. <i>Functional Plant Biology</i> , 1998 , 25, 437	2.7	123
17	Photosynthesis is strongly reduced by antisense suppression of chloroplastic cytochrome bf complex in transgenic tobacco. <i>Functional Plant Biology</i> , 1998 , 25, 445	2.7	43
16	Carbon Dioxide Diffusion Inside C ₃ Leaves 1998 , 3463-3466		1
15	Regulation of CO ₂ Assimilation Rate by the Chloroplast Cytochrome BF Complex 1998 , 3643-3648		
14	Is a Low Internal Conductance to CO ₂ Diffusion a Consequence of Succulence in Plants with Crassulacean Acid Metabolism?. <i>Functional Plant Biology</i> , 1997 , 24, 777	2.7	51
13	The relationship between CO ₂ -assimilation rate, Rubisco carbamylation and Rubisco activase content in activase-deficient transgenic tobacco suggests a simple model of activase action. <i>Planta</i> , 1996 , 198, 604-613	4.7	89
12	Specific reduction of chloroplast glyceraldehyde-3-phosphate dehydrogenase activity by antisense RNA reduces CO ₂ assimilation via a reduction in ribulose biphosphate regeneration in transgenic tobacco plants. <i>Planta</i> , 1995 , 195, 369-78	4.7	113
11	Rubisco: the consequences of altering its expression and activation in transgenic plants. <i>Journal of Experimental Botany</i> , 1995 , 46, 1293-1300	7	40
10	The Regulation of Rubisco Catalysis by Rubisco Activase 1995 , 3909-3914		
9	Specific reduction of chloroplast carbonic anhydrase activity by antisense RNA in transgenic tobacco plants has a minor effect on photosynthetic CO ₂ assimilation. <i>Planta</i> , 1994 , 193, 331-340	4.7	172
8	The kinetics of ribulose-1,5-bisphosphate carboxylase/oxygenase in vivo inferred from measurements of photosynthesis in leaves of transgenic tobacco. <i>Planta</i> , 1994 , 195, 88-97	4.7	325
7	Reduction of ribulose-1,5-bisphosphate carboxylase/oxygenase content by antisense RNA reduces photosynthesis in transgenic tobacco plants. <i>Plant Physiology</i> , 1992 , 98, 294-302	6.6	228
6	Photosynthesis and nitrogen relationships in leaves of C plants. <i>Oecologia</i> , 1989 , 78, 9-19	2.9	2422
5	Absolute absorption and relative fluorescence excitation spectra of the five major chlorophyll-protein complexes from spinach thylakoid membranes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1987 , 892, 75-82	4.6	28

4	Differences between Wheat Genotypes in Specific Activity of Ribulose-1,5-bisphosphate Carboxylase and the Relationship to Photosynthesis. <i>Plant Physiology</i> , 1984 , 74, 759-65	6.6	121
3	Nitrogen and Photosynthesis in the Flag Leaf of Wheat (<i>Triticum aestivum</i> L.). <i>Plant Physiology</i> , 1983 , 72, 297-302	6.6	562
2	Uncovering candidate genes involved in photosynthetic capacity using unexplored genetic variation in Spring Wheat		1
1	AusTraits  curated plant trait database for the Australian flora		1