

John R Evans

List of Publications by Citations

Source: <https://exaly.com/author-pdf/11312386/john-r-evans-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 | Photosynthesis and nitrogen relationships in leaves of C plants. <i>Oecologia</i> , 1989 , 78, 9-19 | 2.9 | 2422 |
| 110 | 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 |
| 109 | Photosynthetic nitrogen-use efficiency of species that differ inherently in specific leaf area. <i>Oecologia</i> , 1998 , 116, 26-37 | 2.9 | 405 |
| 108 | Resistances along the CO ₂ diffusion pathway inside leaves. <i>Journal of Experimental Botany</i> , 2009 , 60, 2235-48 | 7 | 391 |
| 107 | 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 |
| 106 | The importance of energy balance in improving photosynthetic productivity. <i>Plant Physiology</i> , 2011 , 155, 70-8 | 6.6 | 296 |
| 105 | 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 |
| 104 | Estimating mesophyll conductance to CO ₂ : methodology, potential errors, and recommendations. <i>Journal of Experimental Botany</i> , 2009 , 60, 2217-34 | 7 | 241 |
| 103 | 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 |
| 102 | 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 |
| 101 | Physiological and structural tradeoffs underlying the leaf economics spectrum. <i>New Phytologist</i> , 2017 , 214, 1447-1463 | 9.8 | 222 |
| 100 | Improving photosynthesis. <i>Plant Physiology</i> , 2013 , 162, 1780-93 | 6.6 | 205 |
| 99 | Proteoid roots. Physiology and development. <i>Plant Physiology</i> , 1999 , 121, 317-24 | 6.6 | 193 |
| 98 | 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 |
| 97 | Temperature responses of mesophyll conductance differ greatly between species. <i>Plant, Cell and Environment</i> , 2015 , 38, 629-37 | 8.4 | 188 |
| 96 | 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 |
| 95 | 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 |


| | | | |
|----|---|-----|-----|
| 94 | Leaf anatomy enables more equal access to light and CO ₂ between chloroplasts. <i>New Phytologist</i> , 1999 , 143, 93-104 | 9.8 | 171 |
| 93 | 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 |
| 92 | Temperature response of carbon isotope discrimination and mesophyll conductance in tobacco. <i>Plant, Cell and Environment</i> , 2013 , 36, 745-56 | 8.4 | 147 |
| 91 | 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 |
| 90 | 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 |
| 89 | 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 |
| 88 | 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 |
| 87 | 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 |
| 86 | 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 |
| 85 | 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 |
| 84 | Acquisition and Diffusion of CO ₂ in Higher Plant Leaves. <i>Advances in Photosynthesis and Respiration</i> , 2000 , 321-351 | 1.7 | 116 |
| 83 | 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 |
| 82 | 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 |
| 81 | Specific reduction of chloroplast glyceraldehyde-3-phosphate dehydrogenase activity by antisense RNA reduces CO ₂ assimilation via a reduction in ribulose bisphosphate regeneration in transgenic tobacco plants. <i>Planta</i> , 1995 , 195, 369-78 | 4.7 | 113 |
| 80 | 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 |
| 79 | 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 |
| 78 | The nitrogen cost of photosynthesis. <i>Journal of Experimental Botany</i> , 2019 , 70, 7-15 | 7 | 98 |
| 77 | 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 |

| | | | |
|----|---|------|----|
| 76 | Growth of the C4 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 |
| 75 | A comment on the quantitative significance of aerobic methane release by plants. <i>Functional Plant Biology</i> , 2006 , 33, 521-530 | 2.7 | 93 |
| 74 | Enhancing C3 photosynthesis. <i>Plant Physiology</i> , 2010 , 154, 589-92 | 6.6 | 92 |
| 73 | 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 |
| 72 | 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 |
| 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 | The response of fast- and slow-growing <i>Acacia</i> 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 |
| 69 | Online CO ₂ and H ₂ O oxygen isotope fractionation allows estimation of mesophyll conductance in C4 plants, and reveals that mesophyll conductance decreases as leaves age in both C4 and C3 plants. <i>New Phytologist</i> , 2016 , 210, 875-89 | 9.8 | 75 |
| 68 | 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 |
| 67 | 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 |
| 66 | Carbon dioxide and water transport through plant aquaporins. <i>Plant, Cell and Environment</i> , 2017 , 40, 938-961 | 8.4 | 67 |
| 65 | 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 |
| 64 | 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 |
| 63 | 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 |
| 62 | Photosynthesis within isobilateral <i>Eucalyptus pauciflora</i> leaves. <i>New Phytologist</i> , 2006 , 171, 771-82 | 9.8 | 57 |
| 61 | 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 |
| 60 | 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 |
| 59 | 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 |

| | | | |
|----|---|------|----|
| 58 | 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 |
| 57 | 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 |
| 56 | Functional analysis of corn husk photosynthesis. <i>Plant Physiology</i> , 2011 , 156, 503-13 | 6.6 | 44 |
| 55 | Grazing winter wheat relieves plant water stress and transiently enhances photosynthesis. <i>Functional Plant Biology</i> , 2010 , 37, 726 | 2.7 | 43 |
| 54 | 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 |
| 53 | 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 |
| 52 | Effects of elevated atmospheric CO ₂ , cutting frequency, and differential day/night atmospheric warming on root growth and turnover of <i>Phalaris</i> swards. <i>Global Change Biology</i> , 2007 , 13, 1040-1052 | 11.4 | 41 |
| 51 | Rubisco: the consequences of altering its expression and activation in transgenic plants. <i>Journal of Experimental Botany</i> , 1995 , 46, 1293-1300 | 7 | 40 |
| 50 | Nitrogen fertilization enhances water-use efficiency in a saline environment. <i>Plant, Cell and Environment</i> , 2010 , 33, 344-57 | 8.4 | 39 |
| 49 | Chloroplast to Leaf. <i>Ecological Studies</i> , 2004 , 15-41 | 1.1 | 34 |
| 48 | 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 |
| 47 | Predicting dark respiration rates of wheat leaves from hyperspectral reflectance. <i>Plant, Cell and Environment</i> , 2019 , 42, 2133-2150 | 8.4 | 32 |
| 46 | 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 |
| 45 | Embracing 3D Complexity in Leaf Carbon-Water Exchange. <i>Trends in Plant Science</i> , 2019 , 24, 15-24 | 13.1 | 32 |
| 44 | PrometheusWiki Gold Leaf Protocol: gas exchange using LI-COR 6400. <i>Functional Plant Biology</i> , 2014 , 41, 223-226 | 2.7 | 29 |
| 43 | 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 |
| 42 | 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 |
| 41 | Biochemical model of C photosynthesis applied to wheat at different temperatures. <i>Plant, Cell and Environment</i> , 2017 , 40, 1552-1564 | 8.4 | 26 |

| | | | |
|----|--|------|----|
| 40 | 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 |
| 39 | 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 | 25 |
| 38 | 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 |
| 37 | Changes in nutritional value of cyanogenic trifolium repens grown at elevated atmospheric CO ₂ . <i>Journal of Chemical Ecology</i> , 2009 , 35, 476-8 | 2.7 | 22 |
| 36 | Resolving methane fluxes. <i>New Phytologist</i> , 2007 , 175, 1-4 | 9.8 | 22 |
| 35 | Stomatal, mesophyll conductance, and biochemical limitations to photosynthesis during induction. <i>Plant Physiology</i> , 2021 , 185, 146-160 | 6.6 | 22 |
| 34 | 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, 492-505 | 9.8 | 21 |
| 33 | 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 |
| 32 | Genetic variation for photosynthetic capacity and efficiency in spring wheat. <i>Journal of Experimental Botany</i> , 2020 , 71, 2299-2311 | 7 | 20 |
| 31 | Mesophyll conductance: walls, membranes and spatial complexity. <i>New Phytologist</i> , 2021 , 229, 1864-1876 | 6.8 | 20 |
| 30 | Chapter 8 Nitrogen and Water Use Efficiency of C ₄ Plants. <i>Advances in Photosynthesis and Respiration</i> , 2010 , 129-146 | 1.7 | 19 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | A unique web resource for physiology, ecology and the environmental sciences: PrometheusWiki. <i>Functional Plant Biology</i> , 2010 , 37, 687 | 2.7 | 13 |
| 24 | Effects of growth temperature on photosynthetic gas exchange characteristics and hydraulic anatomy in leaves of two cold-climate Poa species. <i>Functional Plant Biology</i> , 2010 , 38, 54-62 | 2.7 | 11 |
| 23 | A reporting format for leaf-level gas exchange data and metadata. <i>Ecological Informatics</i> , 2021 , 61, 101232 | 2.2 | 11 |

| | | | |
|----|--|------|----|
| 22 | A Decrease in Mesophyll Conductance by Cell-Wall Thickening Contributes to Photosynthetic Downregulation. <i>Plant Physiology</i> , 2020 , 183, 1600-1611 | 6.6 | 10 |
| 21 | 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 |
| 20 | 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 |
| 19 | Chloroplast to Leaf. <i>Ecological Studies</i> , 2004 , 107-132 | 1.1 | 9 |
| 18 | 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 |
| 17 | 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 |
| 16 | AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , 2021 , 8, 254 | 8.2 | 6 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | 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 |
| 11 | 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 |
| 10 | 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 |
| 9 | 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 |
| 8 | Uncovering candidate genes involved in photosynthetic capacity using unexplored genetic variation in Spring Wheat | | 1 |
| 7 | 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 |
| 6 | Carbon Dioxide Diffusion Inside C3 Leaves 1998 , 3463-3466 | | 1 |
| 5 | A consensus on the Aquaporin Gene Family in the Allotetraploid Plant,. <i>Plant Direct</i> , 2021 , 5, e00321 | 3.3 | 1 |

- 4 AusTraits  curated plant trait database for the Australian flora 1
- 3 Mesophyll conductance is unaffected by expression of Arabidopsis PIP1 aquaporins in the plasmalemma of Nicotiana.. *Journal of Experimental Botany*, **2022**, 7 1
- 2 The Regulation of Rubisco Catalysis by Rubisco Activase **1995**, 3909-3914
- 1 Regulation of CO2 Assimilation Rate by the Chloroplast Cytochrome BF Complex **1998**, 3643-3648