Robert T Furbank

List of Publications by Year
in descending order

188 papers	14,866 citations	17440 63 h-index	21540 114 g-index
206 all docs	206 docs citations	206 times ranked	11691 citing authors

#	Article	IF	Citations
1	The crucial roles of mitochondria in supporting C₄ photosynthesis. New Phytologist, 2022, 233, 1083-1096.	7.3	11
2	Elucidating the role of SWEET13 in phloem loading of the C₄ grass <i>Setaria viridis</i>. Plant Journal, 2022, 109, 615-632.	5.7	7
3	Dark respiration rates are not determined by differences in mitochondrial capacity, abundance and ultrastructure in C₄ leaves. Plant, Cell and Environment, 2022, 45, 1257-1269.	5.7	5
4	Phenotypic variation in photosynthetic traits in wheat grown under field versus glasshouse conditions. Journal of Experimental Botany, 2022, 73, 3221-3237.	4.8	9
5	Mining for allelic gold: finding genetic variation in photosynthetic traits in crops and wild relatives. Journal of Experimental Botany, 2022, 73, 3085-3108.	4.8	16
6	A single <scp>promoterâ€TALE</scp> system for tissueâ€specific and tuneable expression of multiple genes in rice. Plant Biotechnology Journal, 2022, 20, 1786-1806.	8.3	6
7	Installation of C₄ photosynthetic pathway enzymes in rice using a single construct. Plant Biotechnology Journal, 2021, 19, 575-588.	8.3	78
8	Effect of leaf temperature on the estimation of photosynthetic and other traits of wheat leaves from hyperspectral reflectance. Journal of Experimental Botany, 2021, 72, 1271-1281.	4.8	12
9	A low CO2-responsive mutant of <i>Setaria viridis</i> reveals that reduced carbonic anhydrase limits C4 photosynthesis. Journal of Experimental Botany, 2021, 72, 3122-3136.	4.8	13
10	Bundle sheath suberisation is required for C4 photosynthesis in a Setaria viridis mutant. Communications Biology, 2021, 4, 254.	4.4	19
11	Uncovering candidate genes involved in photosynthetic capacity using unexplored genetic variation in Spring Wheat. Plant Biotechnology Journal, 2021, 19, 1537-1552.	8.3	19
12	A multiple species, continent-wide, million-phenotype agronomic plant dataset. Scientific Data, 2021, 8, 116.	5.3	5
13	Upregulation of bundle sheath electron transport capacity under limiting light in C₄<i>Setaria viridis</i>. Plant Journal, 2021, 106, 1443-1454.	5.7	15
14	Targeted knockdown of ribulose-1, 5-bisphosphate carboxylase-oxygenase in rice mesophyll cells. Journal of Plant Physiology, 2021, 260, 153395.	3.5	9
15	Finding the C4 sweet spot: cellular compartmentation of carbohydrate metabolism in C4 photosynthesis. Journal of Experimental Botany, 2021, 72, 6018-6026.	4.8	14
16	Wheat physiology predictor: predicting physiological traits in wheat from hyperspectral reflectance measurements using deep learning. Plant Methods, 2021, 17, 108.	4.3	27
17	Explainable machine learning models of major crop traits from satellite-monitored continent-wide field trial data. Nature Plants, 2021, 7, 1354-1363.	9.3	27
18	Expression of a CO2-permeable aquaporin enhances mesophyll conductance in the C4 species Setaria viridis. ELife, 2021, 10, .	6.0	33

#	Article	IF	Citations
19	Improving Light Use Efficiency in C4 Plants by Increasing Electron Transport Rate. Proceedings (mdpi), 2020, 36, .	0.2	0
20	Genetic variation for photosynthetic capacity and efficiency in spring wheat. Journal of Experimental Botany, 2020, 71, 2299-2311.	4.8	48
21	On the road to C₄ rice: advances and perspectives. Plant Journal, 2020, 101, 940-950.	5.7	133
22	A Partial C4 Photosynthetic Biochemical Pathway in Rice. Frontiers in Plant Science, 2020, 11, 564463.	3.6	28
23	Photons to food: genetic improvement of cereal crop photosynthesis. Journal of Experimental Botany, 2020, 71, 2226-2238.	4.8	54
24	Leaf growth in early development is key to biomass heterosis in Arabidopsis. Journal of Experimental Botany, 2020, 71, 2439-2450.	4.8	27
25	Overexpression of the Rieske FeS protein of the Cytochrome b6f complex increases C4 photosynthesis in Setaria viridis. Communications Biology, 2019, 2, 314.	4.4	88
26	Transgenic maize phosphoenolpyruvate carboxylase alters leafâ€“atmosphere CO2 and 13CO2 exchanges in Oryza sativa. Photosynthesis Research, 2019, 142, 153-167.	2.9	20
27	Sugar sensing responses to low and high light in leaves of the C4 model grass Setaria viridis. Journal of Experimental Botany, 2019, 71, 1039-1052.	4.8	17
28	A GDSL Esterase/Lipase Catalyzes the Esterification of Lutein in Bread Wheat. Plant Cell, 2019, 31, 3092-3112.	6.6	74
29	Evaluation of the Phenotypic Repeatability of Canopy Temperature in Wheat Using Continuous-Terrestrial and Airborne Measurements. Frontiers in Plant Science, 2019, 10, 875.	3.6	36
30	Predicting dark respiration rates of wheat leaves from hyperspectral reflectance. Plant, Cell and Environment, 2019, 42, 2133-2150.	5.7	54
31	Knockdown of glycine decarboxylase complex alters photorespiratory carbon isotope fractionation in Oryza sativa leaves. Journal of Experimental Botany, 2019, 70, 2773-2786.	4.8	17
32	Response of plasmodesmata formation in leaves of C₄ grasses to growth irradiance. Plant, Cell and Environment, 2019, 42, 2482-2494.	5.7	17
33	Field crop phenomics: enabling breeding for radiation use efficiency and biomass in cereal crops. New Phytologist, 2019, 223, 1714-1727.	7.3	157
34	Nondestructive Phenomic Tools for the Prediction of Heat and Drought Tolerance at Anthesis in <i>Brassica</i> Species. Plant Phenomics, 2019, 2019, 3264872.	5.9	27
35	Hyperspectral reflectance as a tool to measure biochemical and physiological traits in wheat. Journal of Experimental Botany, 2018, 69, 483-496.	4.8	190
36	Multiple mechanisms for enhanced plasmodesmata density in disparate subtypes of C4 grasses. Journal of Experimental Botany, 2018, 69, 1135-1145.	4.8	36

#	Article	IF	Citations
37	High-throughput chlorophyll fluorescence screening of Setaria viridis for mutants with altered CO2 compensation points. Functional Plant Biology, 2018, 45, 1017.	2.1	8
38	High Throughput Determination of Plant Height, Ground Cover, and Above-Ground Biomass in Wheat with LiDAR. Frontiers in Plant Science, 2018, 9, 237.	3.6	206
39	3D Clearing and Molecular Labeling in Plant Tissues. Methods in Molecular Biology, 2018, 1770, 285-304.	0.9	2
40	Diffusion of CO₂ across the Mesophyll-Bundle Sheath Cell Interface in a C₄ Plant with Genetically Reduced PEP Carboxylase Activity. Plant Physiology, 2018, 178, 72-81.	4.8	27
41	Photosynthetic variation and responsiveness to CO2 in a widespread riparian tree. PLoS ONE, 2018, 13, e0189635.	2.5	9
42	Biochemical model of C₃ photosynthesis applied to wheat at different temperatures. Plant, Cell and Environment, 2017, 40, 1552-1564.	5.7	37
43	Diurnal Solar Energy Conversion and Photoprotection in Rice Canopies. Plant Physiology, 2017, 173, 495-508.	4.8	22
44	Re-creation of a Key Step in the Evolutionary Switch from C3 to C4 Leaf Anatomy. Current Biology, 2017, 27, 3278-3287.e6.	3.9	116
45	C₄photosynthesis: 50 years of discovery and innovation. Journal of Experimental Botany, 2017, 68, 97-102.	4.8	20
46	A sorghum (Sorghum bicolor) mutant with altered carbon isotope ratio. PLoS ONE, 2017, 12, e0179567.	2.5	5
47	Walking the C4pathway: past, present, and future. Journal of Experimental Botany, 2017, 68, 4057-4066.	4.8	29
48	Effects of reduced carbonic anhydrase activity on CO₂assimilation rates in<i>Setaria viridis</i>: a transgenic analysis. Journal of Experimental Botany, 2017, 68, 299-310.	4.8	52
49	Cell Wall Development in an Elongating Internode of Setaria. Plant Genetics and Genomics: Crops and Models, 2017, , 211-238.	0.3	0
50	Methodology for High-Throughput Field Phenotyping of Canopy Temperature Using Airborne Thermography. Frontiers in Plant Science, 2016, 7, 1808.	3.6	118
51	Roles of Aquaporins in Setaria viridis Stem Development and Sugar Storage. Frontiers in Plant Science, 2016, 7, 1815.	3.6	17
52	Non-destructive Phenotyping of Lettuce Plants in Early Stages of Development with Optical Sensors. Frontiers in Plant Science, 2016, 7, 1985.	3.6	32
53	3D Scanning System for Automatic High-Resolution Plant Phenotyping. , 2016, , .		24
54	Automated Plant and Leaf Separation: Application in 3D Meshes of Wheat Plants. , 2016, , .		3

#	Article	IF	Citations
55	Walking the C4pathway: past, present, and future. Journal of Experimental Botany, 2016, 67, 4057-4066.	4.8	53
56	Targeted Knockdown of<i>GDCH</i>in Rice Leads to a Photorespiratory-Deficient Phenotype Useful as a Building Block for C₄Rice. Plant and Cell Physiology, 2016, 57, 919-932.	3.1	48
57	Strategies for improving C4 photosynthesis. Current Opinion in Plant Biology, 2016, 31, 125-134.	7.1	119
58	Editorial overview: Physiology and metabolism: CO2 concentrating mechanisms in photosynthetic organisms: evolution, efficiency and significance for crop improvement. Current Opinion in Plant Biology, 2016, 31, iv-vii.	7.1	1
59	Fifty years of C4 photosynthesis. Nature, 2016, 538, 177-179.	27.8	9
60	Wheat genomics: Seeds of C4 photosynthesis. Nature Plants, 2016, 2, 16172.	9.3	7
61	A developing Setaria viridis internode: an experimental system for the study of biomass generation in a C4 model species. Biotechnology for Biofuels, 2016, 9, 45.	6.2	50
62	The Metabolite Pathway between Bundle Sheath and Mesophyll: Quantification of Plasmodesmata in Leaves of C₃ and C₄ Monocots. Plant Cell, 2016, 28, 1461-1471.	6.6	67
63	PEA-CLARITY: 3D molecular imaging of whole plant organs. Scientific Reports, 2015, 5, 13492.	3.3	74
64	Improving photosynthesis and yield potential in cereal crops by targeted genetic manipulation: Prospects, progress and challenges. Field Crops Research, 2015, 182, 19-29.	5.1	81
65	SensorDB: a virtual laboratory for the integration, visualization and analysis of varied biological sensor data. Plant Methods, 2015, 11, 53.	4.3	25
66	Feature matching in stereo images encouraging uniform spatial distribution. Pattern Recognition, 2015, 48, 2530-2542.	8.1	24
67	Detection of decay in fresh-cut lettuce using hyperspectral imaging and chlorophyll fluorescence imaging. Postharvest Biology and Technology, 2015, 106, 44-52.	6.0	49
68	Simultaneous effects of leaf irradiance and soil moisture on growth and root system architecture of novel wheat genotypes: implications for phenotyping. Journal of Experimental Botany, 2015, 66, 5441-5452.	4.8	21
69	Digital imaging approaches for phenotyping whole plant nitrogen and phosphorus response in <i>Brachypodium distachyon</i>. Journal of Integrative Plant Biology, 2014, 56, 781-796.	8.5	49
70	Stereo matching using cost volume watershed and region merging. Signal Processing: Image Communication, 2014, 29, 1232-1244.	3.2	7
71	TraitCapture: genomic and environment modelling of plant phenomic data. Current Opinion in Plant Biology, 2014, 18, 73-79.	7.1	101
72	Proximal Remote Sensing Buggies and Potential Applications for Field-Based Phenotyping. Agronomy, 2014, 4, 349-379.	3.0	316

#	Article	IF	Citations
73	Down-regulation of glucan, water-dikinase activity in wheat endosperm increases vegetative biomass and yield. Plant Biotechnology Journal, 2013, 11, 390-391.	8.3	1
74	A holistic high-throughput screening framework for biofuel feedstock assessment that characterises variations in soluble sugars and cell wall composition in Sorghum bicolor. Biotechnology for Biofuels, 2013, 6, 186.	6.2	35
75	Cross Image Inference Scheme for Stereo Matching. Lecture Notes in Computer Science, 2013, , 217-230.	1.3	1
76	Leaf rolling allows quantification of mRNA abundance in mesophyll cells of sorghum. Journal of Experimental Botany, 2013, 64, 807-813.	4.8	27
77	Antisense Reduction of NADP-Malic Enzyme in <i>Flaveria bidentis</i> Reduces Flow of CO2 through the C4 Cycle Â. Plant Physiology, 2012, 160, 1070-1080.	4.8	36
78	Multiple photosynthetic transitions, polyploidy, and lateral gene transfer in the grass subtribe Neurachninae. Journal of Experimental Botany, 2012, 63, 6297-6308.	4.8	46
79	Tree structural watershed for stereo matching. , 2012, , .		1
80	Achieving yield gains in wheat. Plant, Cell and Environment, 2012, 35, 1799-1823.	5.7	459
81	Preface. Photosynthesis Research, 2012, 113, 1-2.	2.9	1
82	Overexpression of a Potato Sucrose Synthase Gene in Cotton Accelerates Leaf Expansion, Reduces Seed Abortion, and Enhances Fiber Production. Molecular Plant, 2012, 5, 430-441.	8.3	154
83	Modification of OsSUT1 gene expression modulates the salt response of rice Oryza sativa cv. Taipei 309. Plant Science, 2012, 182, 101-111.	3.6	60
84	A novel mesh processing based technique for 3D plant analysis. BMC Plant Biology, 2012, 12, 63.	3.6	189
85	Sucrose Transport in Higher Plants: From Source to Sink. Advances in Photosynthesis and Respiration, 2012, , 703-729.	1.0	18
86	Feature Correspondence with Even Distribution. , 2012, , .		2
87	The Development of C ₄ Rice: Current Progress and Future Challenges. Science, 2012, 336, 1671-1672.	12.6	306
88	Downâ€regulation of Glucan, Waterâ€Dikinase activity in wheat endosperm increases vegetative biomass and yield. Plant Biotechnology Journal, 2012, 10, 871-882.	8.3	52
89	Automated 3D Segmentation and Analysis of Cotton Plants. , 2011, , .		16
90	Raising yield potential of wheat. I. Overview of a consortium approach and breeding strategies. Journal of Experimental Botany, 2011, 62, 439-452.	4.8	262

#	Article	IF	Citations
91	A Novel Isoform of Sucrose Synthase Is Targeted to the Cell Wall during Secondary Cell Wall Synthesis in Cotton Fiber Â Â. Plant Physiology, 2011, 157, 40-54.	4.8	99
92	Phenomics â€“ technologies to relieve the phenotyping bottleneck. Trends in Plant Science, 2011, 16, 635-644.	8.8	1,321
93	Raising yield potential of wheat. II. Increasing photosynthetic capacity and efficiency. Journal of Experimental Botany, 2011, 62, 453-467.	4.8	511
94	C4 Plants as Biofuel Feedstocks: Optimising Biomass Production and Feedstock Quality from a Lignocellulosic PerspectiveFree Access. Journal of Integrative Plant Biology, 2011, 53, 120-135.	8.5	141
95	Functional Analysis of Corn Husk Photosynthesis Â. Plant Physiology, 2011, 156, 503-513.	4.8	59
96	Evolution of the C4 photosynthetic mechanism: are there really three C4 acid decarboxylation types?. Journal of Experimental Botany, 2011, 62, 3103-3108.	4.8	204
97	Food security requires genetic advances to increase farm yields. Nature, 2010, 464, 831-831.	27.8	19
98	Growth of the C4 dicot Flaveria bidentis: photosynthetic acclimation to low light through shifts in leaf anatomy and biochemistry. Journal of Experimental Botany, 2010, 61, 4109-4122.	4.8	116
99	New phenotyping methods for screening wheat and barley for beneficial responses to water deficit. Journal of Experimental Botany, 2010, 61, 3499-3507.	4.8	359
100	Suppression of the Barley<i>uroporphyrinogen III synthase</i>Gene by a<i>Ds</i>Activation Tagging Element Generates Developmental Photosensitivity. Plant Cell, 2009, 21, 814-831.	6.6	25
101	A new screening method for osmotic component of salinity tolerance in cereals using infrared thermography. Functional Plant Biology, 2009, 36, 970.	2.1	173
102	C4 rice: a challenge for plant phenomics. Functional Plant Biology, 2009, 36, 845.	2.1	115
103	Seed Size Is Associated with Sucrose Synthase Activity in Developing Cotyledons of Chickpea. Crop Science, 2009, 49, 621-627.	1.8	9
104	Foreword: Plant phenomics: from gene to form and function. Functional Plant Biology, 2009, 36, v.	2.1	31
105	Large scale transcriptome analysis of the effects of nitrogen nutrition on accumulation of stem carbohydrate reserves in reproductive stage wheat. Plant Molecular Biology, 2008, 66, 15-32.	3.9	75
106	Localization of sucrose synthase in developing seed and siliques of Arabidopsis thaliana reveals diverse roles for SUS during development. Journal of Experimental Botany, 2008, 59, 3283-3295.	4.8	81
107	A xylem sap retrieval pathway in rice leaf blades: evidence of a role for endocytosis?. Journal of Experimental Botany, 2008, 59, 2945-2954.	4.8	55
108	Expression of sucrose synthase in the developing endosperm is essential for early seed development in cotton. Functional Plant Biology, 2008, 35, 382.	2.1	47

#	Article	IF	Citations
109	Phosphorylation of Phosphoenolpyruvate Carboxylase Is Not Essential for High Photosynthetic Rates in the C4 Species Flaveria bidentis. Plant Physiology, 2007, 144, 1936-1945.	4.8	42
110	Involvement of the sucrose transporter, OsSUT1, in the long-distance pathway for assimilate transport in rice. Journal of Experimental Botany, 2007, 58, 3155-3169.	4.8	182
111	Review: Nutrient loading of developing seeds. Functional Plant Biology, 2007, 34, 314.	2.1	170
112	Pendant drop thread dynamics of particle-laden liquids. International Journal of Multiphase Flow, 2007, 33, 448-468.	3.4	49
113	The role of the sucrose transporter, OsSUT1, in germination and early seedling growth and development of rice plants. Journal of Experimental Botany, 2006, 58, 483-495.	4.8	107
114	Pathway of Sugar Transport in Germinating Wheat Seeds. Plant Physiology, 2006, 141, 1255-1263.	4.8	115
115	The delayed initiation and slow elongation of fuzz-like short fibre cells in relation to altered patterns of sucrose synthase expression and plasmodesmata gating in a lintless mutant of cotton. Journal of Experimental Botany, 2005, 56, 977-984.	4.8	54
116	Reductions of Rubisco Activase by Antisense RNA in the C4 Plant Flaveria bidentis Reduces Rubisco Carbamylation and Leaf Photosynthesis. Plant Physiology, 2005, 137, 747-755.	4.8	61
117	Low temperature effects on grapevine photosynthesis: the role of inorganic phosphate. Functional Plant Biology, 2004, 31, 789.	2.1	47
118	Internal recycling of respiratory CO2 in pods of chickpea (Cicer arietinum L.): the role of pod wall, seed coat, and embryo. Journal of Experimental Botany, 2004, 55, 1687-1696.	4.8	67
119	Evolution and Function of the Sucrose-Phosphate Synthase Gene Families in Wheat and Other Grasses. Plant Physiology, 2004, 135, 1753-1764.	4.8	113
120	Genotypic and Developmental Evidence for the Role of Plasmodesmatal Regulation in Cotton Fiber Elongation Mediated by Callose Turnover. Plant Physiology, 2004, 136, 4104-4113.	4.8	151
121	Low temperature effects on photosynthesis and growth of grapevine. Plant, Cell and Environment, 2004, 27, 795-809.	5.7	112
122	Processes contributing to photoprotection of grapevine leaves illuminated at low temperature. Physiologia Plantarum, 2004, 121, 272-281.	5.2	39
123	Carbonic anhydrase and C4 photosynthesis: a transgenic analysis. Plant, Cell and Environment, 2004, 27, 697-703.	5.7	79
124	A Simple Alternative Approach to Assessing the Fate of Absorbed Light Energy Using Chlorophyll Fluorescence. Photosynthesis Research, 2004, 82, 73-81.	2.9	374
125	Expression and localisation analysis of the wheat sucrose transporter TaSUT1 in vegetative tissues. Planta, 2004, 219, 176-184.	3.2	91
126	Regulation of sucrose-phosphate synthase in wheat (Triticum aestivum) leaves. Functional Plant Biology, 2004, 31, 685.	2.1	26

#	Article	IF	Citations
127	The C(4) pathway: an efficient CO(2) pump. Photosynthesis Research, 2003, 77, 191-207.	2.9	337
128	Activity regulation and physiological impacts of maize C(4)-specific phosphoenolpyruvate carboxylase overproduced in transgenic rice plants. Photosynthesis Research, 2003, 77, 227-239.	2.9	93
129	C4 Photosynthesis at Low Temperature. A Study Using Transgenic Plants with Reduced Amounts of Rubisco. Plant Physiology, 2003, 132, 1577-1585.	4.8	139
130	Expression of a cyanobacterial sucrose-phosphate synthase from Synechocystis sp. PCC 6803 in transgenic plants. Journal of Experimental Botany, 2003, 54, 223-237.	4.8	22
131	Suppression of Sucrose Synthase Gene Expression Represses Cotton Fiber Cell Initiation, Elongation, and Seed Development. Plant Cell, 2003, 15, 952-964.	6.6	420
132	The Sucrose Transporter Gene Family in Rice. Plant and Cell Physiology, 2003, 44, 223-232.	3.1	262
133	Assessment of photoprotection mechanisms of grapevines at low temperature. Functional Plant Biology, 2003, 30, 631.	2.1	42
134	Antisense suppression of the rice transporter gene, OsSUT1, leads to impaired grain filling and germination but does not affect photosynthesis. Functional Plant Biology, 2002, 29, 815.	2.1	143
135	Three sucrose transporter genes are expressed in the developing grain of hexaploid wheat. Plant Molecular Biology, 2002, 50, 453-462.	3.9	76
136	Cellular localisation and function of a sucrose transporter OsSUT1 in developing rice grains. Functional Plant Biology, 2001, 28, 1187.	2.1	30
137	MOLECULARENGINEERING OFC4PHOTOSYNTHESIS. Annual Review of Plant Biology, 2001, 52, 297-314.	14.3	225
138	The Control of Single-Celled Cotton Fiber Elongation by Developmentally Reversible Gating of Plasmodesmata and Coordinated Expression of Sucrose and K + Transporters and Expansin. Plant Cell, 2001, 13, 47.	6.6	11
139	The Control of Single-Celled Cotton Fiber Elongation by Developmentally Reversible Gating of Plasmodesmata and Coordinated Expression of Sucrose and K+ Transporters and Expansin. Plant Cell, 2001, 13, 47-60.	6.6	341
140	What Does It Take to Be C4? Lessons from the Evolution of C4 Photosynthesis: Fig. 1.. Plant Physiology, 2001, 125, 46-49.	4.8	118
141	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
142	Sucrose transport-related genes are expressed in both maternal and filial tissues of developing wheat grains. Functional Plant Biology, 2000, 27, 1009.	2.1	16
143	C4 Photosynthesis: Mechanism and Regulation. Advances in Photosynthesis and Respiration, 2000, , 435-457.	1.0	30
144	Pathway and control of sucrose import into initiating cotton fibre cells. Functional Plant Biology, 2000, 27, 795.	2.1	13

#	Article	IF	Citations
145	Cloning and expression of a prokaryotic sucrose-phosphate synthase gene from the cyanobacterium Synechocystis sp. PCC 6803. Plant Molecular Biology, 1999, 40, 297-305.	3.9	46
146	Modeling C4 Photosynthesis. , 1999, , 173-211.		135
147	Title is missing!. Photosynthesis Research, 1998, 58, 91-101.	2.9	12
148	CO2 refixation characteristics of developing canola seeds and silique wall. Functional Plant Biology, 1998, 25, 377.	2.1	59
149	Oxygen Requirement and Inhibition of C4Photosynthesis1. Plant Physiology, 1998, 116, 823-832.	4.8	47
150	Expression of Tobacco Carbonic Anhydrase in the C4Dicot Flaveria bidentis Leads to Increased Leakiness of the Bundle Sheath and a Defective CO2-Concentrating Mechanism. Plant Physiology, 1998, 117, 1071-1081.	4.8	49
151	Localisation of sucrose-phosphate synthase and starch in leaves of C 4 plants. Planta, 1997, 202, 106-111.	3.2	65
152	Adenosine 5â€²-triphosphate-mediated activation of sucrose-phosphate synthase in bundle sheath cells of C 4 plants. Planta, 1997, 202, 249-256.	3.2	21
153	Effects of Exogenous Sucrose Feeding on Photosynthesis in the C3 Plant Tobacco and the C4 Plant Flaveria bidentis. Functional Plant Biology, 1997, 24, 291.	2.1	16
154	Genetic Manipulation of Key Photosynthetic Enzymes in the C4 Plant Flaveria bidentis. Functional Plant Biology, 1997, 24, 477.	2.1	68
155	Carbon Isotope Discrimination during C4 Photosynthesis: Insights from Transgenic Plants. Functional Plant Biology, 1997, 24, 487.	2.1	25
156	Regulation of Photosynthesis in C 3 and C 4 Plants: A Molecular Approach. Plant Cell, 1995, 7, 797.	6.6	105
157	Genetic transformation of the C4 plant, Flaveria bidentis. Plant Journal, 1994, 6, 949-956.	5.7	70
158	Exploitation of Chloroplast Systems in Biotechnology: Stabilization and Regulation of Photosynthesis. , 1992, , 293-315.		1
159	The mechanisms contributing to photosynthetic control of electron transport by carbon assimilation in leaves. Photosynthesis Research, 1990, 25, 83-100.	2.9	272
160	C4 acid decarboxylation and photosynthesis in bundle sheath cells of NAD-malic enzyme-type C4 plants: Mechanism and the role of malate and orthophosphate. Archives of Biochemistry and Biophysics, 1990, 276, 374-381.	3.0	22
161	Enzymes of C4 Photosynthesis. Methods in Plant Biochemistry, 1990, 3, 39-72.	0.2	88
162	Mechanism of C4 Photosynthesis. Plant Physiology, 1989, 91, 1372-1381.	4.8	138

#	Article	IF	Citations
163	CO₂ Concentrating Mechanism of C₄ Photosynthesis. Plant Physiology, 1989, 91, 1364-1371.	4.8	66
164	Inorganic Carbon Diffusion between C₄ Mesophyll and Bundle Sheath Cells. Plant Physiology, 1989, 91, 1356-1363.	4.8	61
165	Coregulation of electron transport and Benson-Calvin cycle activity in isolated spinach chloroplasts: Studies on glycerate 3-phosphate reduction. Archives of Biochemistry and Biophysics, 1989, 268, 687-697.	3.0	6
166	Regulation of electron transport in maize mesophyll chloroplasts: The relationship between chlorophyll a fluorescence quenching and O2 evolution. Planta, 1988, 176, 433-440.	3.2	5
167	C4 plants as valuable model experimental systems for the study of photosynthesis. New Phytologist, 1988, 109, 265-277.	7.3	50
168	Regulation of Ribulose-1,5-Bisphosphate Carboxylase Activity by the Activase System in Lysed Spinach Chloroplasts. Plant Physiology, 1988, 87, 558-561.	4.8	29
169	Mechanism of C4 Photosynthesis. Plant Physiology, 1987, 85, 958-964.	4.8	150
170	Regulation of photosynthesis in isolated spinach chloroplasts during orthophosphate limitation. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 894, 552-561.	1.0	48
171	Interactions between ribulose-1,5-bisphosphate carboxylase and stromal metabolites. I. Modulation of enzyme activity by Benson-Calvin cycle intermediates. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 894, 157-164.	1.0	15
172	Interactions between ribulose-1,5-bisphosphate carboxylase and stromal metabolites. II. Corroboration of the role of this enzyme as a metabolite buffer. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 894, 165-173.	1.0	9
173	Regulation of photosynthesis in isolated barley protoplasts: the contribution of cyclic photophosphorylation. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 894, 332-338.	1.0	35
174	On the nature of the oxygen uptake in the light by Chondrus crispus. Effects of inhibitors, temperature and light intensity. Photosynthesis Research, 1987, 11, 45-59.	2.9	9
175	The Interaction of Ribulose-1,5-Bisphosphate with Thylakoid and Stromal Reactions. , 1987, , 309-312.		1
176	Oscillations in levels of metabolites from the photosynthetic carbon reduction cycle in spinach leaf disks generated by the transition from air to 5% CO2. Archives of Biochemistry and Biophysics, 1986, 246, 240-244.	3.0	35
177	Inhibition of photophosphorylation by ribulose-1,5-bisphosphate carboxylase. Biochimica Et Biophysica Acta - Bioenergetics, 1986, 852, 46-54.	1.0	9
178	CHLOROPHYLL A FLUORESCENCE AS A QUANTITATIVE PROBE OF PHOTOSYNTHESIS: EFFECTS OF CO2 CONCENTRATION DURING GAS TRANSIENTS ON CHLOROPHYLL FLUORESCENCE IN SPINACH LEAVES. New Phytologist, 1986, 104, 207-213.	7.3	10
179	Intercellular compartmentation of sucrose synthesis in leaves of Zea mays L.. Planta, 1985, 164, 172-178.	3.2	66
180	Effects of Polyethylene-Glycol-Induced Osmotic Stress on Transpiration and Photosynthesis in Pinto Bean Leaf Discs. Plant Physiology, 1985, 78, 627-629.	4.8	4

#	Article	IF	Citations
181	The requirements for a steady state in the C3 reductive pentose phosphate pathway of photosynthesis. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 807, 263-271.	1.0	12
182	Carbon metabolism and gas exchange in leaves of Zea mays L.. Planta, 1984, 162, 450-456.	3.2	71
183	Carbon metabolism and gas exchange in leaves of Zea mays L.. Planta, 1984, 162, 457-462.	3.2	41
184	Oxygen exchange associated with electron transport and photophosphorylation in spinach thylakoids. Biochimica Et Biophysica Acta - Bioenergetics, 1983, 723, 400-409.	1.0	83
185	Photoreduction of Oxygen in Mesophyll Chloroplasts of C₄ Plants. Plant Physiology, 1983, 73, 1038-1041.	4.8	43
186	Photosynthetic Oxygen Exchange in Isolated Cells and Chloroplasts of C3 Plants. Plant Physiology, 1982, 70, 927-931.	4.8	82
187	Reductive Pentose Phosphate Cycle and Oxidative Carbohydrate Metabolic Activities in Pea Chloroplast Stroma Extracts. Plant Physiology, 1981, 67, 1036-1041.	4.8	13
188	Effects of inorganic phosphate on the photosynthetic carbon reduction cycle in extracts from the stroma of pea chloroplasts. Biochimica Et Biophysica Acta - Bioenergetics, 1980, 592, 65-75.	1.0	23