

James V Moroney

List of Publications by Year in descending order

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6,544
citations

126907

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67
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6756
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#	ARTICLE	IF	CITATIONS
1	Mitochondrial carbonic anhydrases are needed for optimal photosynthesis at low CO ₂ levels in <i>Chlamydomonas</i> . <i>Plant Physiology</i> , 2021, 187, 1387-1398.	4.8	16
2	Identification and Characterization of a Transient Receptor Potential Ion Channel (TRP2) Involved in Acclimation to Low CO ₂ Conditions in <i>Chlamydomonas reinhardtii</i> . <i>Plant Molecular Biology Reporter</i> , 2020, 38, 503-512.	1.8	3
3	How protein - protein interactions contribute to pyrenoid formation in <i>Chlamydomonas</i> . <i>Journal of Experimental Botany</i> , 2019, 70, 5033-5035.	4.8	2
4	Thylakoid localized bestrophin-like proteins are essential for the CO ₂ concentrating mechanism of <i>Chlamydomonas reinhardtii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16915-16920.	7.1	83
5	The many types of carbonic anhydrases in photosynthetic organisms. <i>Plant Science</i> , 2018, 268, 11-17.	3.6	112
6	Closing the circle. <i>ELife</i> , 2018, 7, .	6.0	3
7	A model for the ergosterol biosynthetic pathway in <i>Chlamydomonas reinhardtii</i> . <i>European Journal of Phycology</i> , 2017, 52, 64-74.	2.0	21
8	A robust protocol for efficient generation, and genomic characterization of insertional mutants of <i>Chlamydomonas reinhardtii</i> . <i>Plant Methods</i> , 2017, 13, 22.	4.3	18
9	Plant Carbonic Anhydrases: Structures, Locations, Evolution, and Physiological Roles. <i>Molecular Plant</i> , 2017, 10, 30-46.	8.3	174
10	Identification and characterization of a solute carrier, CIA8, involved in inorganic carbon acclimation in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Experimental Botany</i> , 2017, 68, 3879-3890.	4.8	26
11	The Cytoplasmic Carbonic Anhydrases <i>CA2</i> and <i>CA4</i> Are Required for Optimal Plant Growth at Low CO ₂ . <i>Plant Physiology</i> , 2016, 171, 280-293.	4.8	80
12	Redesigning photosynthesis to sustainably meet global food and bioenergy demand. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8529-8536.	7.1	751
13	The carbon concentrating mechanism in <i>Chlamydomonas reinhardtii</i> : finding the missing pieces. <i>Photosynthesis Research</i> , 2014, 121, 159-173.	2.9	39
14	CCM8: The Eighth International Symposium on Inorganic Carbon Uptake by Aquatic Photosynthetic Organisms. <i>Photosynthesis Research</i> , 2014, 121, 107-110.	2.9	3
15	Carbon allocation and element composition in four <i>Chlamydomonas</i> mutants defective in genes related to the CO ₂ concentrating mechanism. <i>Photosynthesis Research</i> , 2014, 121, 201-211.	2.9	10
16	Photorespiration and carbon concentrating mechanisms: two adaptations to high O ₂ , low CO ₂ conditions. <i>Photosynthesis Research</i> , 2013, 117, 121-131.	2.9	67
17	The Periplasmic Carbonic Anhydrase, CAH1, is Absent in the Sequenced <i>Chlamydomonas Reinhardtii</i> Strain, CC-503. <i>Advanced Topics in Science and Technology in China</i> , 2013, , 311-314.	0.1	2
18	Transcriptional Analysis of the Three Phosphoglycolate Phosphatase Genes in Wild Type and the <i>pgp1</i> Mutant of <i>Chlamydomonas Reinhardtii</i> . <i>Advanced Topics in Science and Technology in China</i> , 2013, , 315-318.	0.1	3

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19	The carbonic anhydrase isoforms of <i>Chlamydomonas reinhardtii</i> : intracellular location, expression, and physiological roles. <i>Photosynthesis Research</i> , 2011, 109, 133-149.	2.9	188
20	Identification of a Novel Gene, <i>CIA6</i> , Required for Normal Pyrenoid Formation in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2011, 156, 884-896.	4.8	54
21	Functional Characterization of the <i>Chlamydomonas reinhardtii</i> ERG3 Ortholog, a Gene Involved in the Biosynthesis of Ergosterol. <i>PLoS ONE</i> , 2010, 5, e8659.	2.5	29
22	Expression of a Low CO ₂ -Inducible Protein, LCI1, Increases Inorganic Carbon Uptake in the Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2010, 22, 3105-3117.	6.6	83
23	Identification and characterization of two closely related Γ^2 -carbonic anhydrases from <i>Chlamydomonas reinhardtii</i> . <i>Physiologia Plantarum</i> , 2008, 133, 15-26.	5.2	58
24	Identification of Two Genes, <i>slr0804</i> and <i>slr1306</i> , as Putative Components of the CO ₂ -Concentrating Mechanism in the Cyanobacterium <i>Synechocystis</i> sp. Strain PCC 6803. <i>Journal of Bacteriology</i> , 2008, 190, 8234-8237.	2.2	4
25	Identification and characterisation of a novel inorganic carbon acquisition gene, <i>CIA7</i> , from an insertional mutant of <i>Chlamydomonas reinhardtii</i> . <i>Functional Plant Biology</i> , 2008, 35, 373.	2.1	3
26	Proposed Carbon Dioxide Concentrating Mechanism in <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , 2007, 6, 1251-1259.	3.4	232
27	The <i>Chlamydomonas</i> Genome Reveals the Evolution of Key Animal and Plant Functions. <i>Science</i> , 2007, 318, 245-250.	12.6	2,354
28	A rapid method for chloroplast isolation from the green alga <i>Chlamydomonas reinhardtii</i> . <i>Nature Protocols</i> , 2006, 1, 2227-2230.	12.0	44
29	A mutant of <i>Chlamydomonas reinhardtii</i> that cannot acclimate to low CO ₂ conditions has an insertion in the <i>Hdh1</i> gene. <i>Functional Plant Biology</i> , 2005, 32, 55.	2.1	4
30	Regulation of the expression of photorespiratory genes in <i>Chlamydomonas reinhardtii</i> . <i>Canadian Journal of Botany</i> , 2005, 83, 810-819.	1.1	17
31	The carbonic anhydrase gene families of <i>Chlamydomonas reinhardtii</i> . <i>Canadian Journal of Botany</i> , 2005, 83, 780-795.	1.1	64
32	Identification of a New Chloroplast Carbonic Anhydrase in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2004, 135, 173-182.	4.8	101
33	The Malic Enzyme Is Required for Optimal Photoautotrophic Growth of <i>Synechocystis</i> sp. Strain PCC 6803 under Continuous Light but Not under a Diurnal Light Regimen. <i>Journal of Bacteriology</i> , 2004, 186, 8144-8148.	2.2	32
34	The <i>Chlamydomonas reinhardtii</i> proteins <i>Ccp1</i> and <i>Ccp2</i> are required for long-term growth, but are not necessary for efficient photosynthesis, in a low-CO ₂ environment. <i>Plant Molecular Biology</i> , 2004, 56, 125-132.	3.9	61
35	Membrane lipid biosynthesis in <i>Chlamydomonas reinhardtii</i> : ethanolaminephosphotransferase is capable of synthesizing both phosphatidylcholine and phosphatidylethanolamine. <i>Archives of Biochemistry and Biophysics</i> , 2004, 430, 198-209.	3.0	27
36	Rubisco Activase Is Required for Optimal Photosynthesis in the Green Alga <i>Chlamydomonas reinhardtii</i> in a Low-CO ₂ Atmosphere. <i>Plant Physiology</i> , 2003, 133, 1854-1861.	4.8	86

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37	Use of the bleomycin resistance gene to generate tagged insertional mutants of <i>Chlamydomonas reinhardtii</i> that require elevated CO ₂ for optimal growth. <i>Functional Plant Biology</i> , 2002, 29, 231.	2.1	22
38	CARBON CONCENTRATING MECHANISMS IN AQUATIC PHOTOSYNTHETIC ORGANISMS: A REPORT ON CCM 2001. <i>Journal of Phycology</i> , 2001, 37, 928-931.	2.3	8
39	As <i>Chlamydomonas reinhardtii</i> acclimates to low-CO ₂ conditions there is an increase in cyclophilin expression. , 1999, 40, 1055-1062.		18
40	How Do Algae Concentrate CO ₂ to Increase the Efficiency of Photosynthetic Carbon Fixation?1. <i>Plant Physiology</i> , 1999, 119, 9-16.	4.8	191
41	The Intracellular Localization of Ribulose-1,5-Bisphosphate Carboxylase/Oxygenase in <i>Chlamydomonas reinhardtii</i> 1. <i>Plant Physiology</i> , 1998, 116, 1585-1591.	4.8	116
42	<i>Chlamydomonas reinhardtii</i> cDNAs upregulated in low-CO ₂ conditions: expression and analyses. <i>Canadian Journal of Botany</i> , 1998, 76, 1003-1009.	1.1	13
43	The role of the chloroplast in inorganic carbon uptake by eukaryotic algae. <i>Canadian Journal of Botany</i> , 1998, 76, 1025-1034.	1.1	29
44	Measurement of Carbonic Anhydrase Activity Using a Sensitive Fluorometric Assay. <i>Analytical Biochemistry</i> , 1997, 252, 190-197.	2.4	15
45	Isolation of cDNA clones of genes induced upon transfer of <i>Chlamydomonas reinhardtii</i> cells to low CO ₂ . <i>Plant Molecular Biology</i> , 1996, 31, 443-448.	3.9	62
46	<i>Chlamydomonas reinhardtii</i> mutants without ribulose-1,5-bisphosphate carboxylase-oxygenase lack a detectable pyrenoid. <i>Planta</i> , 1996, 198, 263.	3.2	50
47	Growth and Osmotic Adjustment of Cultured Suspension Cells from <i>Alternanthera philoxeroides</i> (Mart.) Griseb After an Abrupt Increase in Salinity. <i>Journal of Experimental Botany</i> , 1993, 44, 673-679.	4.8	12
48	Simplified Procedure for the Isolation of Intact Chloroplasts from <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 1991, 97, 1576-1580.	4.8	30
49	The role of the chloroplast in inorganic carbon acquisition by <i>Chlamydomonas reinhardtii</i> . <i>Canadian Journal of Botany</i> , 1991, 69, 1017-1024.	1.1	46
50	A New Chloroplast Protein Is Induced by Growth on Low CO ₂ in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 1990, 93, 833-836.	4.8	24
51	Identification of Intracellular Carbonic Anhydrase in <i>Chlamydomonas reinhardtii</i> which Is Distinct from the Periplasmic Form of the Enzyme. <i>Plant Physiology</i> , 1989, 89, 904-909.	4.8	61
52	Isolation and Characterization of a Mutant of <i>Chlamydomonas reinhardtii</i> Deficient in the CO ₂ Concentrating Mechanism. <i>Plant Physiology</i> , 1989, 89, 897-903.	4.8	111
53	Inorganic Carbon Accumulation by <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 1988, 88, 491-496.	4.8	65
54	Evidence for Inorganic Carbon Transport by Intact Chloroplasts of <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 1987, 83, 460-463.	4.8	105

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55	Evidence That an Internal Carbonic Anhydrase Is Present in 5% CO ₂ -Grown and Air-Grown <i>Chlamydomonas</i> . <i>Plant Physiology</i> , 1987, 84, 757-761.	4.8	43
56	Complementation analysis of the inorganic carbon concentrating mechanism of <i>Chlamydomonas reinhardtii</i> . <i>Molecular Genetics and Genomics</i> , 1986, 204, 199-203.	2.4	53
57	Glycolate Metabolism and Excretion by <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 1986, 82, 821-826.	4.8	61
58	Effect of Carbonic Anhydrase Inhibitors on Inorganic Carbon Accumulation by <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 1985, 79, 177-183.	4.8	267
59	Inorganic Carbon Uptake by <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 1985, 77, 253-258.	4.8	93
60	The Mr -value of chloroplast coupling factor 1. <i>FEBS Letters</i> , 1983, 158, 58-62.	2.8	131
61	Endogenous fluorescence of coupling factor 1 from spinach chloroplasts. <i>Archives of Biochemistry and Biophysics</i> , 1982, 214, 668-674.	3.0	19
62	The distance between thiol groups in the γ subunit of coupling factor 1 influences the proton permeability of thylakoid membranes. <i>Journal of Bioenergetics and Biomembranes</i> , 1982, 14, 347-359.	2.3	27