Aaron Kaplan

List of Publications by Year in descending order

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156	12,296	32410 55	31191 106
papers	citations	h-index	g-index
160	160	160	9520
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Keep your friends close and your competitors closer: novel interspecies interaction in desert biological sand crusts. Phycologia, 2021, 60, 419-426.	0.6	12
2	Reading and surviving the harsh conditions in desert biological soil crust: the cyanobacterial viewpoint. FEMS Microbiology Reviews, 2021, 45, .	3.9	22
3	The Microbiome Associated with the Reef Builder Neogoniolithon sp. in the Eastern Mediterranean. Microorganisms, 2021, 9, 1374.	1.6	3
4	Cyanobacterial Harmful Algal Blooms in Aquatic Ecosystems: A Comprehensive Outlook on Current and Emerging Mitigation and Control Approaches. Microorganisms, 2021, 9, 1472.	1.6	72
5	Reviewing Interspecies Interactions as a Driving Force Affecting the Community Structure in Lakes via Cyanotoxins. Microorganisms, 2021, 9, 1583.	1.6	11
6	Cryo-EM photosystem I structure reveals adaptation mechanisms to extreme high light in Chlorella ohadii. Nature Plants, 2021, 7, 1314-1322.	4.7	18
7	Juggling Lightning: How Chlorella ohadii handles extreme energy inputs without damage. Photosynthesis Research, 2021, 147, 329-344.	1.6	11
8	Can Alkyl Quaternary Ammonium Cations Substitute H2O2 in Controlling Cyanobacterial Bloomsâ€”Laboratory and Mesocosm Studies. Microorganisms, 2021, 9, 2258.	1.6	4
9	Acclimation of a rocky shore algal reef builderNeogoniolithonsp. to changing illuminations. Limnology and Oceanography, 2020, 65, 27-36.	1.6	5
10	Is the Structure of the CO₂-Hydrating Complex I Compatible with the Cyanobacterial CO₂-Concentrating Mechanism?. Plant Physiology, 2020, 183, 460-463.	2.3	7
11	The response of <i>Microcystis aeruginosa</i> strain MGK to a single or two consecutive H₂O₂ applications. Environmental Microbiology Reports, 2019, 11, 621-629.	1.0	14
12	Secondary Metabolites of Aeromonas veronii Strain A134 Isolated from a Microcystis aeruginosa Bloom. Metabolites, 2019, 9, 110.	1.3	9
13	Desert cyanobacteria prepare in advance for dehydration and rewetting: The role of light and temperature sensing. Molecular Ecology, 2019, 28, 2305-2320.	2.0	31
14	Increased algicidal activity ofAeromonas veroniiin response toMicrocystis aeruginosa: interspecies crosstalk and secondary metabolites synergism. Environmental Microbiology, 2019, 21, 1140-1150.	1.8	20
15	A thylakoidâ€located carbonic anhydrase regulates <scp>CO</scp>₂ uptake in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. New Phytologist, 2019, 222, 206-217.	3.5	25
16	The intracellular distribution of inorganic carbon fixing enzymes does not support the presence of a C4 pathway in the diatom Phaeodactylum tricornutum. Photosynthesis Research, 2018, 137, 263-280.	1.6	39
17	Development of the polysaccharidic matrix in biocrusts induced by a cyanobacterium inoculated in sand microcosms. Biology and Fertility of Soils, 2018, 54, 27-40.	2.3	72
18	The Synechocystis sp. PCC 6803 Genome Encodes Up to Four 2-Phosphoglycolate Phosphatases. Frontiers in Plant Science, 2018, 9, 1718.	1.7	7

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19	The potential of the cyanobacterium Leptolyngbya ohadii as inoculum for stabilizing bare sandy substrates. Soil Biology and Biochemistry, 2018, 127, 318-328.	4.2	61
20	Cyanobacterial populations in biological soil crusts of the northwest Negev Desert, Israel â€“ effects of local conditions and disturbance. FEMS Microbiology Ecology, 2017, 93, fiw228.	1.3	13
21	Dawn illumination prepares desert cyanobacteria for dehydration. Current Biology, 2017, 27, R1056-R1057.	1.8	32
22	Photosystem II-cyclic electron flow powers exceptional photoprotection and record growth in the microalga Chlorella ohadii. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 873-883.	0.5	40
23	Metabolic Flexibility Underpins Growth Capabilities of the Fastest Growing Alga. Current Biology, 2017, 27, 2559-2567.e3.	1.8	34
24	What distinguishes cyanobacteria able to revive after desiccation from those that cannot: the genome aspect. Environmental Microbiology, 2017, 19, 535-550.	1.8	49
25	On the cradle of CCM research: discovery, development, and challenges ahead. Journal of Experimental Botany, 2017, 68, 3785-3796.	2.4	15
26	Simulated soil crust conditions in a chamber system provide new insights on cyanobacterial acclimation to desiccation. Environmental Microbiology, 2016, 18, 414-426.	1.8	33
27	The mechanisms whereby the green alga <i>Chlorella ohadii</i>, isolated from desert soil crust, exhibits unparalleled photodamage resistance. New Phytologist, 2016, 210, 1229-1243.	3.5	74
28	Cyanobacterial secondary metabolites mediate interspeciesâ€“intraspecies communication in the water body. Environmental Microbiology, 2016, 18, 305-306.	1.8	7
29	Local optionality with partial orders. Phonology, 2016, 33, 285-324.	0.3	3
30	CyAbrB2 Contributes to the Transcriptional Regulation of Low CO₂Acclimation in<i>Synechocystis</i>sp. PCC 6803. Plant and Cell Physiology, 2016, 57, 2232-2243.	1.5	37
31	Cyanophages: Starving the Host to Recruit Resources. Current Biology, 2016, 26, R511-R513.	1.8	8
32	Towards clarifying what distinguishes cyanobacteria able to resurrect after desiccation from those that cannot: The photosynthetic aspect. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 715-722.	0.5	40
33	Threeâ€dimensional structure and cyanobacterial activity within a desert biological soil crust. Environmental Microbiology, 2016, 18, 372-383.	1.8	48
34	Regulation of CO2 Concentrating Mechanism in Cyanobacteria. Life, 2015, 5, 348-371.	1.1	152
35	Long-Term Changes in Cyanobacteria Populations in Lake Kinneret (Sea of Galilee), Israel: An Eco-Physiological Outlook. Life, 2015, 5, 418-431.	1.1	25
36	Does 2â€phosphoglycolate serve as an internal signal molecule of inorganic carbon deprivation in the cyanobacterium <scp><i>S</i></scp><i>ynechocystis</i> sp. <scp>PCC</scp> 6803?. Environmental Microbiology, 2015, 17, 1794-1804.	1.8	27

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37	Cyanobacterial Diversity in Biological Soil Crusts along a Precipitation Gradient, Northwest Negev Desert, Israel. Microbial Ecology, 2015, 70, 219-230.	1.4	62
38	An easily reversible structural change underlies mechanisms enabling desert crust cyanobacteria to survive desiccation. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1267-1273.	0.5	45
39	Dehydroascorbate: a possible surveillance molecule of oxidative stress and programmed cell death in the green alga <i><scp>C</scp>hlamydomonas reinhardtii</i>. New Phytologist, 2014, 202, 471-484.	3.5	59
40	Cyanobacteria. , 2014, , 213-226.		4
41	Interactions between <i><scp>S</scp>cenedesmus</i> and <i><scp>M</scp>icrocystis</i> may be used to clarify the role of secondary metabolites. Environmental Microbiology Reports, 2013, 5, 97-104.	1.0	22
42	A newly isolated<i>Chlorella</i>sp. from desert sand crusts exhibits a unique resistance to excess light intensity. FEMS Microbiology Ecology, 2013, 86, 373-380.	1.3	63
43	The role of <scp>C</scp>₄ metabolism in the marine diatom <i><scp>P</scp>haeodactylum tricornutum</i>. New Phytologist, 2013, 197, 177-185.	3.5	83
44	The Languages Spoken in the Water Body (or the Biological Role of Cyanobacterial Toxins). Frontiers in Microbiology, 2012, 3, 138.	1.5	90
45	The Uptake of CO2 by Cyanobacteria and Microalgae. Advances in Photosynthesis and Respiration, 2012, , 625-650.	1.0	14
46	Invasion of Nostocales (cyanobacteria) to Subtropical and Temperate Freshwater Lakes â€“ Physiological, Regional, and Global Driving Forces. Frontiers in Microbiology, 2012, 3, 86.	1.5	183
47	Appearance and establishment of diazotrophic cyanobacteria in Lake Kinneret, Israel. Freshwater Biology, 2012, 57, 1214-1227.	1.2	34
48	Casting a net: fibres produced by <i>Microcystis</i> sp. in field and laboratory populations. Environmental Microbiology Reports, 2012, 4, 342-349.	1.0	9
49	Multiannual variations in phytoplankton populations: what distinguished the blooms of <i>Aphanizomenon ovalisporum</i> in Lake Kinneret in 2010 from 2009?. Environmental Microbiology Reports, 2012, 4, 498-503.	1.0	11
50	The Cyanobacterial Hepatotoxin Microcystin Binds to Proteins and Increases the Fitness of Microcystis under Oxidative Stress Conditions. PLoS ONE, 2011, 6, e17615.	1.1	367
51	Photoinactivation of photosystem II: is there more than one way to skin a cat?. Physiologia Plantarum, 2011, 142, 79-86.	2.6	53
52	Crossâ€talk between photomixotrophic growth and CO₂â€concentrating mechanism in<i>Synechocystis</i>sp. strain PCC 6803. Environmental Microbiology, 2011, 13, 1767-1777.	1.8	17
53	Experimental validation of a nonequilibrium model of CO2 fluxes between gas, liquid medium, and algae in a flat-panel photobioreactor. Journal of Industrial Microbiology and Biotechnology, 2010, 37, 1319-1326.	1.4	22
54	Enrichment of oxygen heavy isotopes during photosynthesis in phytoplankton. Photosynthesis Research, 2010, 103, 97-103.	1.6	62

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55	Enslavement in the Water Body by Toxic Aphanizomenon ovalisporum, Inducing Alkaline Phosphatase in Phytoplanktons. Current Biology, 2010, 20, 1557-1561.	1.8	151
56	Light-Induced Changes within Photosystem II Protects Microcoleus sp. in Biological Desert Sand Crusts against Excess Light. PLoS ONE, 2010, 5, e11000.	1.1	62
57	Photorespiratory 2-phosphoglycolate metabolism and photoreduction of O2 cooperate in high-light acclimation of Synechocystis sp. strain PCC 6803. Planta, 2009, 230, 625-637.	1.6	49
58	A cyanobacterial AbrBâ€like protein affects the apparent photosynthetic affinity for CO₂ by modulating lowâ€CO₂â€induced gene expression. Environmental Microbiology, 2009, 11, 927-936.	1.8	80
59	Paradoxically, prior acquisition of antioxidant activity enhances oxidative stressâ€induced cell death. Environmental Microbiology, 2009, 11, 2301-2309.	1.8	33
60	The Phaeodactylum genome reveals the evolutionary history of diatom genomes. Nature, 2008, 456, 239-244.	13.7	1,458
61	An AbrBâ€like protein might be involved in the regulation of cylindrospermopsin production by <i>Aphanizomenon ovalisporum</i>. Environmental Microbiology, 2008, 10, 988-999.	1.8	51
62	Changes in the photosynthetic reaction centre II in the diatom <i>Phaeodactylum tricornutum</i> result in nonâ€photochemical fluorescence quenching. Environmental Microbiology, 2008, 10, 1997-2007.	1.8	54
63	A Model for Carbohydrate Metabolism in the Diatom Phaeodactylum tricornutum Deduced from Comparative Whole Genome Analysis. PLoS ONE, 2008, 3, e1426.	1.1	394
64	Acidification and CO<sub>2</sub> production in the boundary layer during photosynthesis in <i>Ulva rigida</i> (Chlorophyta) C. Agardh. Israel Journal of Plant Sciences, 2008, 56, 55-60.	0.3	6
65	Acceleration of Cardiovascular Disease by a Dysfunctional Prostacyclin Receptor Mutation. Circulation Research, 2008, 102, 986-993.	2.0	112
66	The photorespiratory glycolate metabolism is essential for cyanobacteria and might have been conveyed endosymbiontically to plants. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17199-17204.	3.3	260
67	The kinetic properties of ribulose-1,5-bisphosphate carboxylase/oxygenase may explain the high apparent photosynthetic affinity of <i>Nannochloropsis</i> sp. to ambient inorganic carbon. Israel Journal of Plant Sciences, 2008, 56, 37-44.	0.3	12
68	Thylakoid membrane perforations and connectivity enable intracellular traffic in cyanobacteria. EMBO Journal, 2007, 26, 1467-1473.	3.5	130
69	Synchronization of cell death in a dinoflagellate population is mediated by an excreted thiol protease. Environmental Microbiology, 2007, 9, 360-369.	1.8	64
70	Towards clarification of the biological role of microcystins, a family of cyanobacterial toxins. Environmental Microbiology, 2007, 9, 965-970.	1.8	187
71	Toxins and Biologically Active Secondary Metabolites ofMicrocystissp. isolated from Lake Kinneret. Israel Journal of Chemistry, 2006, 46, 79-87.	1.0	39
72	A putative sensor kinase, Hik31, is involved in the response of Synechocystis sp. strain PCC 6803 to the presence of glucose. Microbiology (United Kingdom), 2006, 152, 647-655.	0.7	51

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73	The Plant-Like C2 Glycolate Cycle and the Bacterial-Like Glycerate Pathway Cooperate in Phosphoglycolate Metabolism in Cyanobacteria. Plant Physiology, 2006, 142, 333-342.	2.3	133
74	Fractionation of the Three Stable Oxygen Isotopes by Oxygen-Producing and Oxygen-Consuming Reactions in Photosynthetic Organisms. Plant Physiology, 2005, 138, 2292-2298.	2.3	140
75	Ecological implications of the emergence of non-toxic subcultures from toxic Microcystis strains. Environmental Microbiology, 2005, 7, 798-805.	1.8	62
76	Inactivation of photosynthetic electron flow during desiccation of desert biological sand crusts and Microcoleus sp.-enriched isolates. Photochemical and Photobiological Sciences, 2005, 4, 977.	1.6	26
77	Activation of Photosynthesis and Resistance to Photoinhibition in Cyanobacteria within Biological Desert Crust. Plant Physiology, 2004, 136, 3070-3079.	2.3	138
78	Resolving the biological role of the Rhesus (Rh) proteins of red blood cells with the aid of a green alga. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7497-7498.	3.3	10
79	Inorganic carbon acquisition systems in cyanobacteria. Photosynthesis Research, 2003, 77, 105-115.	1.6	82
80	Massive light-dependent cycling of inorganic carbon between oxygenic photosynthetic microorganisms and their surroundings. Photosynthesis Research, 2003, 77, 95-103.	1.6	66
81	Genes Encoding A-Type Flavoproteins Are Essential for Photoreduction of O2 in Cyanobacteria. Current Biology, 2003, 13, 230-235.	1.8	256
82	Enhanced photosynthesis and growth of transgenic plants that expressictB, a gene involved in HCO3âˆ’accumulation in cyanobacteria. Plant Biotechnology Journal, 2003, 1, 43-50.	4.1	94
83	Genes Essential to Sodium-dependent Bicarbonate Transport in Cyanobacteria. Journal of Biological Chemistry, 2002, 277, 18658-18664.	1.6	245
84	Inhibition of growth and photosynthesis of the dinoflagellate <i>Peridinium gatunense</i> by <i>Microcystis</i> sp. (cyanobacteria): A novel allelopathic mechanism. Limnology and Oceanography, 2002, 47, 1656-1663.	1.6	169
85	Physiological variables determined under laboratory conditions may explain the bloom of Aphanizomenon ovalisporum in Lake Kinneret. European Journal of Phycology, 2002, 37, 259-267.	0.9	40
86	Cyanobacteria in Lake Kinneret: physiological and ecological adaptations. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2002, 28, 996-1000.	0.1	0
87	Dinoflagellate-Cyanobacterium Communication May Determine the Composition of Phytoplankton Assemblage in a Mesotrophic Lake. Current Biology, 2002, 12, 1767-1772.	1.8	162
88	Seasonal and diurnal variations in gene expression in the desert legume Retama raetam. Plant, Cell and Environment, 2002, 25, 1627-1638.	2.8	23
89	Molecular and biochemical mechanisms associated with dormancy and drought tolerance in the desert legume Retama raetam. Plant Journal, 2002, 31, 319-330.	2.8	182
90	A novel gene encoding amidinotransferase in the cylindrospermopsin producing cyanobacteriumAphanizomenon ovalisporum. FEMS Microbiology Letters, 2002, 209, 87-91.	0.7	67

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91	Living under a â€˜dormantâ€™ canopy: a molecular acclimation mechanism of the desert plantRetama raetam. Plant Journal, 2001, 25, 407-416.	2.8	109
92	Distinct constitutive and low-CO2-induced CO2 uptake systems in cyanobacteria: Genes involved and their phylogenetic relationship with homologous genes in other organisms. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 11789-11794.	3.3	232
93	DNA Microarray Analysis of Cyanobacterial Gene Expression during Acclimation to High Light. Plant Cell, 2001, 13, 793.	3.1	6
94	Passive Entry of CO2 and Its Energy-dependent Intracellular Conversion to HCO3â˜’ in Cyanobacteria Are Driven by a Photosystem I-generated Î”Î¼H+. Journal of Biological Chemistry, 2001, 276, 23450-23455.	1.6	75
95	Acclimation of photosynthetic microorganisms to changing ambient CO2 concentration. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 4817-4818.	3.3	40
96	DNA Microarray Analysis of Cyanobacterial Gene Expression during Acclimation to High Light. Plant Cell, 2001, 13, 793-806.	3.1	444
97	Programmed cell death of the dinoflagellate Peridinium gatunense is mediated by CO2 limitation and oxidative stress. Current Biology, 1999, 9, 1061-1064.	1.8	270
98	CO2CONCENTRATING MECHANISMS IN PHOTOSYNTHETIC MICROORGANISMS. Annual Review of Plant Biology, 1999, 50, 539-570.	14.2	610
99	The Inorganic Carbon-Concentrating Mechanism of Cyanobacteria. , 1999, , 561-571.		0
100	A mutant ofSynechococcusPCC 7942 impaired in HCOÃ¢Â˜Â’3uptake. FEMS Microbiology Letters, 1998, 159, 317-324.	0.7	2
101	Modification oftopAinSynechococcussp. PCC 7942 resulted in mutants capable of growing under low but not high concentration of CO2. FEMS Microbiology Letters, 1998, 159, 343-347.	0.7	6
102	A putative HCOâ˜’ 3 transporter in the cyanobacterium Synechococcus sp. strain PCC 7942 1. FEBS Letters, 1998, 430, 236-240.	1.3	56
103	Carbon isotope fractionation by photosynthetic aquatic microorganisms: experiments with <i>Synechococcus</i> PCC7942, and a simple carbon flux model. Canadian Journal of Botany, 1998, 76, 1109-1118.	1.2	11
104	Changes in inorganic carbon uptake during the progression of a dinoflagellate bloom in a lake ecosystem. Canadian Journal of Botany, 1998, 76, 1043-1051.	1.2	22
105	Cyanobacterial mutants impaired in bicarbonate uptake isolated with the aid of an inactivation library. Canadian Journal of Botany, 1998, 76, 942-948.	1.2	4
106	The inorganic carbon-concentrating mechanism in cyanobacteria: induction and ecological significance. Canadian Journal of Botany, 1998, 76, 917-924.	1.2	8
107	Photosynthesizing marine microorganisms can constitute a source of CO2 rather than a sink. Canadian Journal of Botany, 1998, 76, 949-953.	1.2	7
108	Carbon isotope fractionation by photosynthetic aquatic microorganisms: experiments with <I>Synechococcus</I> PCC7942, and a simple carbon flux model. Canadian Journal of Botany, 1998, 76, 1109-1118.	1.2	24

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109	The inorganic carbon-concentrating mechanism in cyanobacteria: induction and ecological significance. Canadian Journal of Botany, 1998, 76, 917-924.	1.2	22
110	Cyanobacterial mutants impaired in bicarbonate uptake isolated with the aid of an inactivation library. Canadian Journal of Botany, 1998, 76, 942-948.	1.2	8
111	Photosynthesizing marine microorganisms can constitute a source of CO₂ rather than a sink. Canadian Journal of Botany, 1998, 76, 949-953.	1.2	15
112	ACCLIMATION OF SYNECHOCOCCUS STRAIN WH7803 TO AMBIENT CO2 CONCENTRATION AND TO ELEVATED LIGHT INTENSITY1. Journal of Phycology, 1997, 33, 811-817.	1.0	38
113	UPTAKE, EFFLUX, AND PHOTOSYNTHETIC UTILIZATION OF INORGANIC CARBON BY THE MARINE EUSTIGMATOPHYTE NANNOCHLOROPSIS SP.1. Journal of Phycology, 1997, 33, 969-974.	1.0	55
114	Sustained net CO2 evolution during photosynthesis by marine microorganism. Current Biology, 1997, 7, 723-728.	1.8	112
115	Quantitative evaluation of the role of a putative CO2-scavenging entity in the cyanobacterial CO2-concentrating mechanism. BioSystems, 1996, 37, 229-238.	0.9	69
116	Cyanobacterial Mutants Defective in HCO3 - Uptake. , 1996, , 49-55.		1
117	CARBONIC ANHYDRASE ACTIVITY IN THE BLOOM-FORMING DINOFLAGELLATE PERIDINIUM GATUNENSE1. Journal of Phycology, 1995, 31, 906-913.	1.0	35
118	Low Activation State of Ribulose-1,5-Bisphosphate Carboxylase/Oxygenase in Carboxysome-Defective Synechococcus Mutants. Plant Physiology, 1995, 108, 183-190.	2.3	52
119	The Genomic Region of rbcLS in Synechococcus sp. PCC 7942 Contains Genes Involved in the Ability to Grow under Low CO2 Concentration and in Chlorophyll Biosynthesis. Plant Physiology, 1995, 108, 1461-1469.	2.3	28
120	Response of Photosynthetic Microorganisms to Changing Ambient Concentration of CO2. , 1995, , 323-334.		9
121	The fluxes of inorganic carbon and CO2-dependent genes involved in the cyanobacterial inorganic carbon-concentrating mechanism: A view on some of the open questions. , 1994, , 299-304.		1
122	Physiological and Molecular Studies on the Response of Cyanobacteria to Changes in the Ambient Inorganic Carbon Concentration. , 1994, , 469-485.		71
123	Inactivation of <i>ccmO</i> in <i>Synechococcus</i> sp. Strain PCC 7942 Results in a Mutant Requiring High Levels of CO ₂. Applied and Environmental Microbiology, 1994, 60, 1018-1020.	1.4	40
124	High CO2 Concentration Alleviates the Block in Photosynthetic Electron Transport in an ndhB-Inactivated Mutant of Synechococcus sp. PCC 7942. Plant Physiology, 1993, 101, 1047-1053.	2.3	55
125	Phenotypic Complementation of High CO₂-Requiring Mutants of the Cyanobacterium <i>Synechococcus</i> sp. Strain PCC 7942 by Inosine 5â€²-Monophosphate. Plant Physiology, 1992, 100, 1987-1993.	2.3	36
126	A Cyanobacterial Gene Encoding Peptidyl-Prolyl cis-trans Isomerase. Plant Physiology, 1992, 100, 1982-1986.	2.3	17

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127	A model for inorganic carbon fluxes and photosynthesis in cyanobacterial carboxysomes. Canadian Journal of Botany, 1991, 69, 984-988.	1.2	105
128	Molecular analysis of high CO2 requiring mutants: involvement of genes in the region of rbc, including rbcS, in the ability of cyanobacteria to grow under low CO2. Canadian Journal of Botany, 1991, 69, 945-950.	1.2	24
129	Physiological and Molecular Aspects of the Inorganic Carbon-Concentrating Mechanism in Cyanobacteria. Plant Physiology, 1991, 97, 851-855.	2.3	125
130	Analysis of high CO2 requiring mutants indicates a central role for the 5â€² flanking region of rbc and for the carboxysomes in cyanobacterial photosynthesis. Canadian Journal of Botany, 1990, 68, 1303-1310.	1.2	9
131	The 5'-flanking region of the gene encoding the large subunit of ribulose-1,5-bisphosphate carboxylase/oxygenase is crucial for growth of the cyanobacterium Synechococcus sp. strain PCC 7942 at the level of CO2 in air. Journal of Bacteriology, 1989, 171, 6069-6076.	1.0	91
132	Nature of the Light-Induced H⁺ Efflux and Na⁺ Uptake in Cyanobacteria. Plant Physiology, 1989, 89, 1220-1225.	2.3	41
133	[57] Inorganic carbon uptake by cyanobacteria. Methods in Enzymology, 1988, , 534-539.	0.4	10
134	Is There a Role for the 42 Kilodalton Polypeptide in Inorganic Carbon Uptake by Cyanobacteria?. Plant Physiology, 1988, 88, 284-288.	2.3	57
135	Energization and Activation of Inorganic Carbon Uptake by Light in Cyanobacteria. Plant Physiology, 1987, 84, 210-213.	2.3	54
136	Adaptation to Low CO2 Level in a Mutant of Anacystis nidulans R2 which Requires High CO2 for Growth. Plant Physiology, 1987, 83, 892-894.	2.3	24
137	The Stoichiometry between CO₂ and H⁺ Fluxes Involved in the Transport of Inorganic Carbon in Cyanobacteria. Plant Physiology, 1987, 83, 888-891.	2.3	54
138	Inhibition of inorganic carbon transport by oxygen in a high CO2-requiring mutant (E1) of Anacystis nidulans R2. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 893, 219-224.	0.5	5
139	Adaptation to CO2 Level and Changes in the Phosphorylation of Thylakoid Proteins during the Cell Cycle of Chlamydomonas reinhardtii. Plant Physiology, 1986, 80, 604-607.	2.3	36
140	High CO2 Requiring Mutant of Anacystis nidulans R2. Plant Physiology, 1986, 82, 610-612.	2.3	75
141	Photosynthesis and Inorganic Carbon Accumulation in the Acidophilic Alga Cyanidioschyzon merolae. Plant Physiology, 1985, 77, 237-239.	2.3	40
142	Nature of the Inorganic Carbon Species Actively Taken Up by the Cyanobacterium <i>Anabaena variabilis</i>. Plant Physiology, 1984, 76, 599-602.	2.3	154
143	Is HCO3âˆ’ Transport in Anabaena a Na+ Symport?. Plant Physiology, 1984, 76, 1090-1092.	2.3	45
144	Evidence against H+âˆ’HCO 3 âˆ’ symport as the mechanism for HCO 3 âˆ’ transport in the cyanobacteriumAnabaena variabilis. Journal of Membrane Biology, 1984, 79, 271-274.	1.0	15

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145	Adaptation of the Cyanobacterium <i>Anabaena variabilis</i> to Low CO₂ Concentration in Their Environment. Plant Physiology, 1983, 71, 208-210.	2.3	86
146	Induction of HCO3âˆ’ Transporting Capability and High Photosynthetic Affinity to Inorganic Carbon by Low Concentration of CO2 in Anabaena variabilis. Plant Physiology, 1982, 69, 1008-1012.	2.3	68
147	Involvement of a Primary Electrogenic Pump in the Mechanism for HCO₃^{âˆ’} Uptake by the Cyanobacterium <i>Anabaena variabilis</i>. Plant Physiology, 1982, 69, 978-982.	2.3	95
148	Photoinhibition inSpirulina platensis: Response of Photosynthesis and HCO3âˆ’Uptake Capability to CO2Depleted Conditions. Journal of Experimental Botany, 1981, 32, 669-677.	2.4	35
149	Uptake and efflux of inorganic carbon in Dunaliella salina. Planta, 1981, 152, 8-12.	1.6	62
150	Glycolate Excretion and the Oxygen to Carbon Dioxide Net Exchange Ratio during Photosynthesis in Chlamydomonas reinhardtii. Plant Physiology, 1981, 67, 229-232.	2.3	39
151	Evidence for Mediated HCO3âˆ’ Transport in Isolated Pea Mesophyll Protoplasts. Plant Physiology, 1981, 67, 1119-1123.	2.3	32
152	Photosynthetic Response to Alkaline pH in <i>Anabaena variabilis</i>. Plant Physiology, 1981, 67, 201-204.	2.3	23
153	Photosynthesis and the intracellular inorganic carbon pool in the bluegreen alga Anabaena variabilis: Response to external CO2 concentration. Planta, 1980, 149, 219-226.	1.6	348
154	Internal Inorganic Carbon Pool of <i>Chlamydomonas reinhardtii</i>. Plant Physiology, 1980, 66, 407-413.	2.3	498
155	Salt-Induced Metabolic Changes in Dunaliella salina. Plant Physiology, 1980, 65, 810-813.	2.3	33
156	Ratio of CO2 Uptake to O2 Evolution during Photosynthesis in Higher Plants. Zeitschrift FÃ¼r Pflanzenphysiologie, 1980, 96, 185-188.	1.4	10