Aaron Kaplan

List of Publications by Year
in descending order

156 papers	12,296 citations	28190 55 h-index	27345 106 g-index
160 all docs	160 docs citations	160 times ranked	8524 citing authors

#	Article	IF	Citations
1	The Phaeodactylum genome reveals the evolutionary history of diatom genomes. Nature, 2008, 456, 239-244.	13.7	1,458
2	CO2CONCENTRATING MECHANISMS IN PHOTOSYNTHETIC MICROORGANISMS. Annual Review of Plant Biology, 1999, 50, 539-570.	14.2	610
3	Internal Inorganic Carbon Pool of <i>Chlamydomonas reinhardtii</i>. Plant Physiology, 1980, 66, 407-413.	2.3	498
4	DNA Microarray Analysis of Cyanobacterial Gene Expression during Acclimation to High Light. Plant Cell, 2001, 13, 793-806.	3.1	444
5	A Model for Carbohydrate Metabolism in the Diatom Phaeodactylum tricornutum Deduced from Comparative Whole Genome Analysis. PLoS ONE, 2008, 3, e1426.	1.1	394
6	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
7	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
8	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
9	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
10	Genes Encoding A-Type Flavoproteins Are Essential for Photoreduction of O2 in Cyanobacteria. Current Biology, 2003, 13, 230-235.	1.8	256
11	Genes Essential to Sodium-dependent Bicarbonate Transport in Cyanobacteria. Journal of Biological Chemistry, 2002, 277, 18658-18664.	1.6	245
12	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
13	Towards clarification of the biological role of microcystins, a family of cyanobacterial toxins. Environmental Microbiology, 2007, 9, 965-970.	1.8	187
14	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
15	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
16	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
17	Dinoflagellate-Cyanobacterium Communication May Determine the Composition of Phytoplankton Assemblage in a Mesotrophic Lake. Current Biology, 2002, 12, 1767-1772.	1.8	162
18	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

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19	Regulation of CO2 Concentrating Mechanism in Cyanobacteria. Life, 2015, 5, 348-371.	1.1	152
20	Enslavement in the Water Body by Toxic Aphanizomenon ovalisporum, Inducing Alkaline Phosphatase in Phytoplanktons. Current Biology, 2010, 20, 1557-1561.	1.8	151
21	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
22	Activation of Photosynthesis and Resistance to Photoinhibition in Cyanobacteria within Biological Desert Crust. Plant Physiology, 2004, 136, 3070-3079.	2.3	138
23	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
24	Thylakoid membrane perforations and connectivity enable intracellular traffic in cyanobacteria. EMBO Journal, 2007, 26, 1467-1473.	3.5	130
25	Physiological and Molecular Aspects of the Inorganic Carbon-Concentrating Mechanism in Cyanobacteria. Plant Physiology, 1991, 97, 851-855.	2.3	125
26	Sustained net CO2 evolution during photosynthesis by marine microorganism. Current Biology, 1997, 7, 723-728.	1.8	112
27	Acceleration of Cardiovascular Disease by a Dysfunctional Prostacyclin Receptor Mutation. Circulation Research, 2008, 102, 986-993.	2.0	112
28	Living under a â€˜dormantâ€™ canopy: a molecular acclimation mechanism of the desert plantRetama raetam. Plant Journal, 2001, 25, 407-416.	2.8	109
29	A model for inorganic carbon fluxes and photosynthesis in cyanobacterial carboxysomes. Canadian Journal of Botany, 1991, 69, 984-988.	1.2	105
30	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
31	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
32	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
33	The Languages Spoken in the Water Body (or the Biological Role of Cyanobacterial Toxins). Frontiers in Microbiology, 2012, 3, 138.	1.5	90
34	Adaptation of the Cyanobacterium <i>Anabaena variabilis</i> to Low CO₂ Concentration in Their Environment. Plant Physiology, 1983, 71, 208-210.	2.3	86
35	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
36	Inorganic carbon acquisition systems in cyanobacteria. Photosynthesis Research, 2003, 77, 105-115.	1.6	82

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37	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
38	High CO2 Requiring Mutant of Anacystis nidulans R2. Plant Physiology, 1986, 82, 610-612.	2.3	75
39	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
40	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
41	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
42	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
43	Physiological and Molecular Studies on the Response of Cyanobacteria to Changes in the Ambient Inorganic Carbon Concentration. , 1994, , 469-485.		71
44	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
45	Induction of HCO3â^’ 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
46	A novel gene encoding amidinotransferase in the cylindrospermopsin producing cyanobacteriumAphanizomenon ovalisporum. FEMS Microbiology Letters, 2002, 209, 87-91.	0.7	67
47	Massive light-dependent cycling of inorganic carbon between oxygenic photosynthetic microorganisms and their surroundings. Photosynthesis Research, 2003, 77, 95-103.	1.6	66
48	Synchronization of cell death in a dinoflagellate population is mediated by an excreted thiol protease. Environmental Microbiology, 2007, 9, 360-369.	1.8	64
49	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
50	Uptake and efflux of inorganic carbon in Dunaliella salina. Planta, 1981, 152, 8-12.	1.6	62
51	Ecological implications of the emergence of non-toxic subcultures from toxic Microcystis strains. Environmental Microbiology, 2005, 7, 798-805.	1.8	62
52	Enrichment of oxygen heavy isotopes during photosynthesis in phytoplankton. Photosynthesis Research, 2010, 103, 97-103.	1.6	62
53	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
54	Cyanobacterial Diversity in Biological Soil Crusts along a Precipitation Gradient, Northwest Negev Desert, Israel. Microbial Ecology, 2015, 70, 219-230.	1.4	62

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55	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
56	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
57	Is There a Role for the 42 Kilodalton Polypeptide in Inorganic Carbon Uptake by Cyanobacteria?. Plant Physiology, 1988, 88, 284-288.	2.3	57
58	A putative HCOâˆ' 3 transporter in the cyanobacterium Synechococcus sp. strain PCC 7942 1. FEBS Letters, 1998, 430, 236-240.	1.3	56
59	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
60	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
61	Energization and Activation of Inorganic Carbon Uptake by Light in Cyanobacteria. Plant Physiology, 1987, 84, 210-213.	2.3	54
62	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
63	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
64	Photoinactivation of photosystem II: is there more than one way to skin a cat?. Physiologia Plantarum, 2011, 142, 79-86.	2.6	53
65	Low Activation State of Ribulose-1,5-Bisphosphate Carboxylase/Oxygenase in Carboxysome-Defective Synechococcus Mutants. Plant Physiology, 1995, 108, 183-190.	2.3	52
66	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
67	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
68	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
69	What distinguishes cyanobacteria able to revive after desiccation from those that cannot: the genome aspect. Environmental Microbiology, 2017, 19, 535-550.	1.8	49
70	Threeâ€dimensional structure and cyanobacterial activity within a desert biological soil crust. Environmental Microbiology, 2016, 18, 372-383.	1.8	48
71	Is HCO3âˆ' Transport in Anabaena a Na+ Symport?. Plant Physiology, 1984, 76, 1090-1092.	2.3	45
72	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

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73	Nature of the Light-Induced H⁺ Efflux and Na⁺ Uptake in Cyanobacteria. Plant Physiology, 1989, 89, 1220-1225.	2.3	41
74	Photosynthesis and Inorganic Carbon Accumulation in the Acidophilic Alga Cyanidioschyzon merolae. Plant Physiology, 1985, 77, 237-239.	2.3	40
75	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
76	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
77	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
78	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
79	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
80	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
81	Toxins and Biologically Active Secondary Metabolites ofMicrocystissp. isolated from Lake Kinneret. Israel Journal of Chemistry, 2006, 46, 79-87.	1.0	39
82	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
83	ACCLIMATION OF SYNECHOCOCCUS STRAIN WH7803 TO AMBIENT CO2 CONCENTRATION AND TO ELEVATED LIGHT INTENSITY1. Journal of Phycology, 1997, 33, 811-817.	1.0	38
84	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
85	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
86	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
87	Photoinhibition inSpirulina platensis: Response of Photosynthesis and HCO3âˆ’Uptake Capability to CO2Depleted Conditions. Journal of Experimental Botany, 1981, 32, 669-677.	2.4	35
88	CARBONIC ANHYDRASE ACTIVITY IN THE BLOOM-FORMING DINOFLAGELLATE PERIDINIUM GATUNENSE1. Journal of Phycology, 1995, 31, 906-913.	1.0	35
89	Appearance and establishment of diazotrophic cyanobacteria in Lake Kinneret, Israel. Freshwater Biology, 2012, 57, 1214-1227.	1.2	34
90	Metabolic Flexibility Underpins Growth Capabilities of the Fastest Growing Alga. Current Biology, 2017, 27, 2559-2567.e3.	1.8	34

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91	Salt-Induced Metabolic Changes in Dunaliella salina. Plant Physiology, 1980, 65, 810-813.	2.3	33
92	Paradoxically, prior acquisition of antioxidant activity enhances oxidative stressâ€induced cell death. Environmental Microbiology, 2009, 11, 2301-2309.	1.8	33
93	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
94	Evidence for Mediated HCO3âˆ’ Transport in Isolated Pea Mesophyll Protoplasts. Plant Physiology, 1981, 67, 1119-1123.	2.3	32
95	Dawn illumination prepares desert cyanobacteria for dehydration. Current Biology, 2017, 27, R1056-R1057.	1.8	32
96	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
97	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
98	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
99	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
100	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
101	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
102	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
103	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
104	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
105	Photosynthetic Response to Alkaline pH in <i>Anabaena variabilis</i>. Plant Physiology, 1981, 67, 201-204.	2.3	23
106	Seasonal and diurnal variations in gene expression in the desert legume Retama raetam. Plant, Cell and Environment, 2002, 25, 1627-1638.	2.8	23
107	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
108	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

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109	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
110	Reading and surviving the harsh conditions in desert biological soil crust: the cyanobacterial viewpoint. FEMS Microbiology Reviews, 2021, 45, .	3.9	22
111	The inorganic carbon-concentrating mechanism in cyanobacteria: induction and ecological significance. Canadian Journal of Botany, 1998, 76, 917-924.	1.2	22
112	Increased algicidal activity ofAeromonas veroniiin response toMicrocystis aeruginosa: interspecies crosstalk and secondary metabolites synergism. Environmental Microbiology, 2019, 21, 1140-1150.	1.8	20
113	Cryo-EM photosystem I structure reveals adaptation mechanisms to extreme high light in Chlorella ohadii. Nature Plants, 2021, 7, 1314-1322.	4.7	18
114	A Cyanobacterial Gene Encoding Peptidyl-Prolyl cis-trans Isomerase. Plant Physiology, 1992, 100, 1982-1986.	2.3	17
115	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
116	Evidence against H+â^'HCO 3 â^' symport as the mechanism for HCO 3 â^' transport in the cyanobacteriumAnabaena variabilis. Journal of Membrane Biology, 1984, 79, 271-274.	1.0	15
117	On the cradle of CCM research: discovery, development, and challenges ahead. Journal of Experimental Botany, 2017, 68, 3785-3796.	2.4	15
118	Photosynthesizing marine microorganisms can constitute a source of CO₂ rather than a sink. Canadian Journal of Botany, 1998, 76, 949-953.	1.2	15
119	The Uptake of CO2 by Cyanobacteria and Microalgae. Advances in Photosynthesis and Respiration, 2012, , 625-650.	1.0	14
120	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
121	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
122	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
123	Keep your friends close and your competitors closer: novel interspecies interaction in desert biological sand crusts. Phycologia, 2021, 60, 419-426.	0.6	12
124	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
125	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
126	Reviewing Interspecies Interactions as a Driving Force Affecting the Community Structure in Lakes via Cyanotoxins. Microorganisms, 2021, 9, 1583.	1.6	11

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127	Juggling Lightning: How Chlorella ohadii handles extreme energy inputs without damage. Photosynthesis Research, 2021, 147, 329-344.	1.6	11
128	Ratio of CO2 Uptake to O2 Evolution during Photosynthesis in Higher Plants. Zeitschrift FÃ¼r Pflanzenphysiologie, 1980, 96, 185-188.	1.4	10
129	[57] Inorganic carbon uptake by cyanobacteria. Methods in Enzymology, 1988, , 534-539.	0.4	10
130	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
131	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
132	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
133	Secondary Metabolites of Aeromonas veronii Strain A134 Isolated from a Microcystis aeruginosa Bloom. Metabolites, 2019, 9, 110.	1.3	9
134	Response of Photosynthetic Microorganisms to Changing Ambient Concentration of CO2. , 1995, , 323-334.		9
135	The inorganic carbon-concentrating mechanism in cyanobacteria: induction and ecological significance. Canadian Journal of Botany, 1998, 76, 917-924.	1.2	8
136	Cyanophages: Starving the Host to Recruit Resources. Current Biology, 2016, 26, R511-R513.	1.8	8
137	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
138	Photosynthesizing marine microorganisms can constitute a source of CO2 rather than a sink. Canadian Journal of Botany, 1998, 76, 949-953.	1.2	7
139	Cyanobacterial secondary metabolites mediate interspeciesâ€“intraspecies communication in the water body. Environmental Microbiology, 2016, 18, 305-306.	1.8	7
140	The Synechocystis sp. PCC 6803 Genome Encodes Up to Four 2-Phosphoglycolate Phosphatases. Frontiers in Plant Science, 2018, 9, 1718.	1.7	7
141	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
142	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
143	DNA Microarray Analysis of Cyanobacterial Gene Expression during Acclimation to High Light. Plant Cell, 2001, 13, 793.	3.1	6
144	Acidification and CO₂ 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

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145	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
146	Acclimation of a rocky shore algal reef builderNeogoniolithonsp. to changing illuminations. Limnology and Oceanography, 2020, 65, 27-36.	1.6	5
147	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
148	Cyanobacteria. , 2014, , 213-226.		4
149	Can Alkyl Quaternary Ammonium Cations Substitute H2O2 in Controlling Cyanobacterial Bloomsâ€"Laboratory and Mesocosm Studies. Microorganisms, 2021, 9, 2258.	1.6	4
150	Local optionality with partial orders. Phonology, 2016, 33, 285-324.	0.3	3
151	The Microbiome Associated with the Reef Builder Neogoniolithon sp. in the Eastern Mediterranean. Microorganisms, 2021, 9, 1374.	1.6	3
152	A mutant ofSynechococcusPCC 7942 impaired in HCOÃ¢Â^Â'3uptake. FEMS Microbiology Letters, 1998, 159, 317-324.	0.7	2
153	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
154	Cyanobacterial Mutants Defective in HCO3 - Uptake. , 1996, , 49-55.		1
155	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
156	The Inorganic Carbon-Concentrating Mechanism of Cyanobacteria. , 1999, , 561-571.		0