

John A Raven

List of Publications by Year in descending order

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275
papers

26,178
citations

5896

81
h-index

7950

149
g-index

290
all docs

290
docs citations

290
times ranked

21743
citing authors

#	ARTICLE	IF	CITATIONS
1	The Evolution of Modern Eukaryotic Phytoplankton. <i>Science</i> , 2004, 305, 354-360.	12.6	1,287
2	CO ₂ CONCENTRATING MECHANISMS IN ALGAE: Mechanisms, Environmental Modulation, and Evolution. <i>Annual Review of Plant Biology</i> , 2005, 56, 99-131.	18.7	1,238
3	Plant nutrient-acquisition strategies change with soil age. <i>Trends in Ecology and Evolution</i> , 2008, 23, 95-103.	8.7	1,092
4	Algae as nutritional and functional food sources: revisiting our understanding. <i>Journal of Applied Phycology</i> , 2017, 29, 949-982.	2.8	984
5	Opportunities for improving phosphorus use efficiency in crop plants. <i>New Phytologist</i> , 2012, 195, 306-320.	7.3	702
6	Temperature and algal growth. <i>New Phytologist</i> , 1988, 110, 441-461.	7.3	624
7	Phosphorus limitation of nitrogen fixation by <i>Trichodesmium</i> in the central Atlantic Ocean. <i>Nature</i> , 2001, 411, 66-69.	27.8	588
8	THE TRANSPORT AND FUNCTION OF SILICON IN PLANTS. <i>Biological Reviews</i> , 1983, 58, 179-207.	10.4	553
9	The role of trace metals in photosynthetic electron transport in O ₂ -evolving organisms. <i>Photosynthesis Research</i> , 1999, 60, 111-150.	2.9	545
10	Pluses and minuses of ammonium and nitrate uptake and assimilation by phytoplankton and implications for productivity and community composition, with emphasis on nitrogen-enriched conditions. <i>Limnology and Oceanography</i> , 2016, 61, 165-197.	3.1	475
11	The future of Blue Carbon science. <i>Nature Communications</i> , 2019, 10, 3998.	12.8	406
12	The iron and molybdenum use efficiencies of plant growth with different energy, carbon and nitrogen sources. <i>New Phytologist</i> , 1988, 109, 279-287.	7.3	374
13	Misuse of the phytoplankton-zooplankton dichotomy: the need to assign organisms as mixotrophs within plankton functional types. <i>Journal of Plankton Research</i> , 2013, 35, 3-11.	1.8	344
14	Plant mineral nutrition in ancient landscapes: high plant species diversity on infertile soils is linked to functional diversity for nutritional strategies. <i>Plant and Soil</i> , 2010, 334, 11-31.	3.7	323
15	Predictions of Mn and Fe use efficiencies of phototrophic growth as a function of light availability for growth and of C assimilation pathway. <i>New Phytologist</i> , 1990, 116, 1-18.	7.3	317
16	Defining Planktonic Protist Functional Groups on Mechanisms for Energy and Nutrient Acquisition: Incorporation of Diverse Mixotrophic Strategies. <i>Protist</i> , 2016, 167, 106-120.	1.5	290
17	The potential effects of global climate change on microalgal photosynthesis, growth and ecology. <i>Phycologia</i> , 2004, 43, 26-40.	1.4	285
18	Mechanistic interpretation of carbon isotope discrimination by marine macroalgae and seagrasses. <i>Functional Plant Biology</i> , 2002, 29, 355.	2.1	284

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19	Primary productivity of planet earth: biological determinants and physical constraints in terrestrial and aquatic habitats. <i>Global Change Biology</i> , 2001, 7, 849-882.	9.5	281
20	The evolution of inorganic carbon concentrating mechanisms in photosynthesis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 2641-2650.	4.0	281
21	The cost of photoinhibition. <i>Physiologia Plantarum</i> , 2011, 142, 87-104.	5.2	263
22	Selection pressures on stomatal evolution. <i>New Phytologist</i> , 2002, 153, 371-386.	7.3	262
23	Early photosynthetic eukaryotes inhabited low-salinity habitats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7737-E7745.	7.1	244
24	Algal evolution in relation to atmospheric CO ₂ : carboxylases, carbon-concentrating mechanisms and carbon oxidation cycles. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 493-507.	4.0	231
25	Mechanisms of inorganic-carbon acquisition in marine phytoplankton and their implications for the use of other resources. <i>Limnology and Oceanography</i> , 1991, 36, 1701-1714.	3.1	226
26	Algal and aquatic plant carbon concentrating mechanisms in relation to environmental change. <i>Photosynthesis Research</i> , 2011, 109, 281-296.	2.9	218
27	Energy costs of carbon dioxide concentrating mechanisms in aquatic organisms. <i>Photosynthesis Research</i> , 2014, 121, 111-124.	2.9	199
28	A comparison of ammonium and nitrate as nitrogen sources for photolithotrophs. <i>New Phytologist</i> , 1992, 121, 19-32.	7.3	197
29	TESTING THE EFFECTS OF OCEAN ACIDIFICATION ON ALGAL METABOLISM: CONSIDERATIONS FOR EXPERIMENTAL DESIGNS ¹ . <i>Journal of Phycology</i> , 2009, 45, 1236-1251.	2.3	194
30	Genomics and chloroplast evolution: what did cyanobacteria do for plants?. <i>Genome Biology</i> , 2003, 4, 209.	9.6	190
31	The influence of N metabolism and organic acid synthesis on the natural abundance of isotopes of carbon in plants. <i>New Phytologist</i> , 1990, 116, 505-529.	7.3	176
32	The future of the northeast Atlantic benthic flora in a high CO ₂ world. <i>Ecology and Evolution</i> , 2014, 4, 2787-2798.	1.9	176
33	Implications of inorganic carbon utilization: ecology, evolution, and geochemistry. <i>Canadian Journal of Botany</i> , 1991, 69, 908-924.	1.1	173
34	Cycling silicon - the role of accumulation in plants. <i>New Phytologist</i> , 2003, 158, 419-421.	7.3	167
35	Free-radical-induced mutation vs redox regulation: Costs and benefits of genes in organelles. <i>Journal of Molecular Evolution</i> , 1996, 42, 482-492.	1.8	166
36	C3 and C4 Pathways of Photosynthetic Carbon Assimilation in Marine Diatoms Are under Genetic, Not Environmental, Control. <i>Plant Physiology</i> , 2007, 145, 230-235.	4.8	166

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37	The effects of reduced and elevated CO ₂ and O ₂ on the seaweed <i>Lomentaria articulata</i> . <i>Plant, Cell and Environment</i> , 1999, 22, 1303-1310.	5.7	164
38	Changes in pH at the exterior surface of plankton with ocean acidification. <i>Nature Climate Change</i> , 2012, 2, 510-513.	18.8	158
39	Costs of acquiring phosphorus by vascular land plants: patterns and implications for plant coexistence. <i>New Phytologist</i> , 2018, 217, 1420-1427.	7.3	154
40	Exogenous inorganic carbon sources for photosynthesis in seawater by members of the Fucales and the Laminariales (Phaeophyta): ecological and taxonomic implications. <i>Oecologia</i> , 1989, 78, 97-105.	2.0	150
41	Algae lacking carbon-concentrating mechanisms. <i>Canadian Journal of Botany</i> , 2005, 83, 879-890.	1.1	145
42	Speedy small stomata?. <i>Journal of Experimental Botany</i> , 2014, 65, 1415-1424.	4.8	144
43	Rubisco: still the most abundant protein of Earth?. <i>New Phytologist</i> , 2013, 198, 1-3.	7.3	143
44	Ecophysiology of photosynthesis in macroalgae. <i>Photosynthesis Research</i> , 2012, 113, 105-125.	2.9	142
45	BIOCHEMICAL DISPOSAL OF EXCESS H ⁺ IN GROWING PLANTS?. <i>New Phytologist</i> , 1986, 104, 175-206.	7.3	141
46	Allometry and stoichiometry of unicellular, colonial and multicellular phytoplankton. <i>New Phytologist</i> , 2009, 181, 295-309.	7.3	138
47	A REVISED ESTIMATE OF THE IRON USE EFFICIENCY OF NITROGEN FIXATION, WITH SPECIAL REFERENCE TO THE MARINE CYANOBACTERIUM <i>TRICHODESMIUM</i> SPP. (CYANOPHYTA) 1. <i>Journal of Phycology</i> , 2003, 39, 12-25.	2.3	136
48	An in situ study of photosynthetic oxygen exchange and electron transport rate in the marine macroalga <i>Ulva lactuca</i> (Chlorophyta). <i>Photosynthesis Research</i> , 2002, 74, 281-293.	2.9	135
49	Insights into the Evolution of Multicellularity from the Sea Lettuce Genome. <i>Current Biology</i> , 2018, 28, 2921-2933.e5.	3.9	134
50	THE ROLE OF VACUOLES. <i>New Phytologist</i> , 1987, 106, 357-422.	7.3	130
51	Inorganic carbon acquisition by eukaryotic algae: four current questions. <i>Photosynthesis Research</i> , 2010, 106, 123-134.	2.9	125
52	Low levels of ribosomal RNA partly account for the very high photosynthetic phosphorus-use efficiency of <i>Porphyra</i> species. <i>Plant, Cell and Environment</i> , 2014, 37, 1276-1298.	5.7	121
53	Carbon acquisition by diatoms. <i>Photosynthesis Research</i> , 2007, 93, 79-88.	2.9	120
54	Inorganic carbon physiology underpins macroalgal responses to elevated CO ₂ . <i>Scientific Reports</i> , 2017, 7, 46297.	3.3	119

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55	The role of CO ₂ uptake by roots and CAM in acquisition of inorganic C by plants of the isoetid life-form: a review, with new data on <i>Eriocaulon decangulare</i> L.. <i>New Phytologist</i> , 1988, 108, 125-148.	7.3	118
56	Inorganic C-sources for <i>Lemanea</i> , <i>Cladophora</i> and <i>Ranunculus</i> in a fast-flowing stream: Measurements of gas exchange and of carbon isotope ratio and their ecological implications. <i>Oecologia</i> , 1982, 53, 68-78.	2.0	117
57	Putting the C in phycology. <i>European Journal of Phycology</i> , 1997, 32, 319-333.	2.0	117
58	Stylites, a vascular land plant without stomata absorbs CO ₂ via its roots. <i>Nature</i> , 1984, 310, 694-695.	27.8	116
59	NEW LIGHT ON THE SCALING OF METABOLIC RATE WITH THE SIZE OF ALGAE. <i>Journal of Phycology</i> , 2002, 38, 11-16.	2.3	113
60	A Neoproterozoic Transition in the Marine Nitrogen Cycle. <i>Current Biology</i> , 2014, 24, 652-657.	3.9	113
61	The possible evolution and future of CO ₂ -concentrating mechanisms. <i>Journal of Experimental Botany</i> , 2017, 68, 3701-3716.	4.8	111
62	Phagotrophy in the origins of photosynthesis in eukaryotes and as a complementary mode of nutrition in phototrophs: relation to Darwin's insectivorous plants. <i>Journal of Experimental Botany</i> , 2009, 60, 3975-3987.	4.8	108
63	Nitrogen and sulfur assimilation in plants and algae. <i>Aquatic Botany</i> , 2014, 118, 45-61.	1.6	108
64	Physiological correlates of the morphology of early vascular plants. <i>Botanical Journal of the Linnean Society</i> , 1984, 88, 105-126.	1.6	105
65	IS THE GROWTH RATE HYPOTHESIS APPLICABLE TO MICROALGAE?1. <i>Journal of Phycology</i> , 2010, 46, 1-12.	2.3	105
66	Inorganic carbon acquisition by <i>Xiphophora chondrophylla</i> (Phaeophyta, Fucales). <i>Phycologia</i> , 1996, 35, 83-89.	1.4	104
67	Inorganic carbon concentrating mechanisms in relation to the biology of algae. <i>Photosynthesis Research</i> , 2003, 77, 155-171.	2.9	103
68	An Anaplerotic Role for Mitochondrial Carbonic Anhydrase in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2003, 132, 2126-2134.	4.8	103
69	The Response of <i>Thalassiosira pseudonana</i> to Long-Term Exposure to Increased CO ₂ and Decreased pH. <i>PLoS ONE</i> , 2011, 6, e26695.	2.5	103
70	The ins and outs of CO ₂ . <i>Journal of Experimental Botany</i> , 2016, 67, 1-13.	4.8	102
71	Plant mineral nutrition in ancient landscapes: high plant species diversity on infertile soils is linked to functional diversity for nutritional strategies. <i>Plant and Soil</i> , 2011, 348, 7-27.	3.7	99
72	Microbial rhodopsins are major contributors to the solar energy captured in the sea. <i>Science Advances</i> , 2019, 5, eaaw8855.	10.3	97

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73	Geomicrobiology of Eukaryotic Microorganisms. <i>Geomicrobiology Journal</i> , 2010, 27, 491-519.	2.0	96
74	INORGANIC CARBON ACQUISITION BY CHRYSOPHYTES ¹ . <i>Journal of Phycology</i> , 2009, 45, 1052-1061.	2.3	94
75	SOURCES OF INORGANIC CARBON FOR PHOTOSYNTHESIS BY THREE SPECIES OF MARINE DIATOM1. <i>Journal of Phycology</i> , 1997, 33, 433-440.	2.3	91
76	Seaweeds in Cold Seas: Evolution and Carbon Acquisition. <i>Annals of Botany</i> , 2002, 90, 525-536.	2.9	90
77	How do marine diatoms fix 10 billion tonnes of inorganic carbon per year?. <i>Canadian Journal of Botany</i> , 2005, 83, 898-908.	1.1	90
78	THE ENERGETICS OF FRESHWATER ALGAE; ENERGY REQUIREMENTS FOR BIOSYNTHESIS AND VOLUME REGULATION. <i>New Phytologist</i> , 1982, 92, 1-20.	7.3	89
79	THE EVOLUTION OF VASCULAR PLANTS IN RELATION TO QUANTITATIVE FUNCTIONING OF DEAD WATER-CONDUCTING CELLS AND STOMATA. <i>Biological Reviews</i> , 1993, 68, 337-363.	10.4	89
80	Dynamic CO ₂ and pH levels in coastal, estuarine, and inland waters: Theoretical and observed effects on harmful algal blooms. <i>Harmful Algae</i> , 2020, 91, 101594.	4.8	88
81	GROWTH, PHOTOSYNTHESIS AND MAINTENANCE METABOLIC COST IN THE DIATOM <i>PHAEODACTYLUM TRICORNUTUM</i> AT VERY LOW LIGHT LEVELS ¹ . <i>Journal of Phycology</i> , 1986, 22, 39-48.	2.3	87
82	Evolutionary temperature compensation of carbon fixation in marine phytoplankton. <i>Ecology Letters</i> , 2020, 23, 722-733.	6.4	86
83	Photosynthetic gas exchange under emersed conditions in eulittoral and normally submersed members of the Fucales and the Laminariales: interpretation in relation to C isotope ratio and N and water use efficiency. <i>Oecologia</i> , 1990, 82, 68-80.	2.0	85
84	Exploring Cyanobacterial Mutualisms. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2007, 38, 255-273.	8.3	85
85	Neoproterozoic origin and multiple transitions to macroscopic growth in green seaweeds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2551-2559.	7.1	85
86	Macroalgal growth in nutrient-enriched estuaries: A biogeochemical and evolutionary perspective. <i>Water, Air and Soil Pollution</i> , 2003, 3, 7-26.	0.8	83
87	Adaptation, Acclimation and Regulation in Algal Photosynthesis. <i>Advances in Photosynthesis and Respiration</i> , 2003, , 385-412.	1.0	83
88	A Metabolomic Approach to Study Major Metabolite Changes during Acclimation to Limiting CO ₂ in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2010, 154, 187-196.	4.8	80
89	Testing the climate intervention potential of ocean afforestation using the Great Atlantic Sargassum Belt. <i>Nature Communications</i> , 2021, 12, 2556.	12.8	79
90	Why are there no picoplanktonic O ₂ evolvers with volumes less than 10 ⁻¹⁹ m ³ ?. <i>Journal of Plankton Research</i> , 1994, 16, 565-580.	1.8	78

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91	Protein turnover and plant RNA and phosphorus requirements in relation to nitrogen fixation. <i>Plant Science</i> , 2012, 188-189, 25-35.	3.6	78
92	Responses of aquatic photosynthetic organisms to increased solar UVB. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1991, 9, 239-244.	3.8	77
93	Photosynthesis in a marine diatom. <i>Nature</i> , 2001, 412, 40-41.	27.8	77
94	Growth and photoregulation dynamics of the picoeukaryote <i>Pelagomonas calceolata</i> in fluctuating light. <i>Limnology and Oceanography</i> , 2009, 54, 823-836.	3.1	76
95	The analysis of photosynthesis in air and water of <i>Ascophyllum nodosum</i> (L.) Le Jol.. <i>Oecologia</i> , 1986, 69, 288-295.	2.0	73
96	Regulation of inorganic carbon acquisition by phosphorus limitation in the green alga <i>Chlorella emersonii</i> . <i>Canadian Journal of Botany</i> , 2005, 83, 859-864.	1.1	73
97	The Algal Revolution. <i>Trends in Plant Science</i> , 2017, 22, 726-738.	8.8	73
98	THE INTERACTION BETWEEN INORGANIC CARBON ACQUISITION AND LIGHT SUPPLY IN PALMARIA PALMATA (RHODOPHYTA)1. <i>Journal of Phycology</i> , 1995, 31, 369-375.	2.3	72
99	A Large Population of Small Chloroplasts in Tobacco Leaf Cells Allows More Effective Chloroplast Movement Than a Few Enlarged Chloroplasts. <i>Plant Physiology</i> , 2002, 129, 112-121.	4.8	70
100	Oceanic protists with different forms of acquired phototrophy display contrasting biogeographies and abundance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170664.	2.6	63
101	Could land-based early photosynthesizing ecosystems have bioengineered the planet in mid-Palaeozoic times?. <i>Palaeontology</i> , 2015, 58, 803-837.	2.2	62
102	Ocean acidification as a multiple driver: how interactions between changing seawater carbonate parameters affect marine life. <i>Marine and Freshwater Research</i> , 2020, 71, 263.	1.3	62
103	Ammonia and ammonium fluxes between photolithotrophs and the environment in relation to the global nitrogen cycle. <i>New Phytologist</i> , 1992, 121, 5-18.	7.3	58
104	Global aspects of C/N interactions determining plant-environment interactions. <i>Journal of Experimental Botany</i> , 2003, 55, 11-25.	4.8	58
105	Cryptic Photosynthesis—Extrasolar Planetary Oxygen Without a Surface Biological Signature. <i>Astrobiology</i> , 2009, 9, 623-636.	3.0	58
106	DARK CARBON FIXATION STUDIES ON THE INTERTIDAL MACROALGA <i>ASCOPHYLLUM NODOSUM</i> (PHAEOPHYTA). <i>Journal of Phycology</i> , 1986, 22, 78-83.	2.3	57
107	RNA function and phosphorus use by photosynthetic organisms. <i>Frontiers in Plant Science</i> , 2013, 4, 536.	3.6	56
108	Impact of irradiance on the C allocation in the coastal marine diatom <i>Skeletonema marinoi</i> Sarno and Zingone*. <i>Plant, Cell and Environment</i> , 2011, 34, 1666-1677.	5.7	55

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109	Genomes at the interface between bacteria and organelles. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003, 358, 5-18.	4.0	54
110	The early evolution of land plants: Aquatic ancestors and atmospheric interactions. <i>Botanical Journal of Scotland</i> , 1995, 47, 151-175.	0.3	53
111	Carbon Acquisition Mechanisms of Algae: Carbon Dioxide Diffusion and Carbon Dioxide Concentrating Mechanisms. <i>Advances in Photosynthesis and Respiration</i> , 2003, , 225-244.	1.0	53
112	Photosynthesis in watercolours. <i>Nature</i> , 2007, 448, 418-418.	27.8	53
113	Forensic carbon accounting: Assessing the role of seaweeds for carbon sequestration. <i>Journal of Phycology</i> , 2022, 58, 347-363.	2.3	53
114	Transport and assimilation of inorganic carbon by <i>Lichina pygmaea</i> under emersed and submersed conditions. <i>New Phytologist</i> , 1990, 114, 407-417.	7.3	52
115	PROCESSES LIMITING PHOTOSYNTHETIC CONDUCTANCE. , 1981, , 109-136.		52
116	Non-Skeletal Biomineralization by Eukaryotes: Matters of Moment and Gravity. <i>Geomicrobiology Journal</i> , 2010, 27, 572-584.	2.0	51
117	IMPACT OF TAXONOMY, GEOGRAPHY, AND DEPTH ON $\delta^{13}\text{C}$ AND $\delta^{15}\text{N}$ VARIATION IN A LARGE COLLECTION OF MACROALGAE. <i>Journal of Phycology</i> , 2011, 47, 1023-1035.	2.3	49
118	Swansong biospheres II: the final signs of life on terrestrial planets near the end of their habitable lifetimes. <i>International Journal of Astrobiology</i> , 2014, 13, 229-243.	1.6	49
119	Enhanced biofuel production using optimality, pathway modification and waste minimization. <i>Journal of Applied Phycology</i> , 2015, 27, 1-31.	2.8	49
120	REPAIR OF PHOTOINHIBITORY DAMAGE IN ANACYSTIS NIDULANS 625 (SYNECHOCOCCLUS 6301): RELATION TO CATALYTIC CAPACITY FOR, AND ENERGY SUPPLY TO, PROTEIN SYNTHESIS, AND IMPLICATIONS FOR μ_{max} AND THE EFFICIENCY OF LIGHT-LIMITED GROWTH. <i>New Phytologist</i> , 1986, 103, 625-643.	7.3	48
121	The role of marine biota in the evolution of terrestrial biota: Gases and genes. <i>Biogeochemistry</i> , 1997, 39, 139-164.	3.5	48
122	Interactions of photosynthesis with genome size and function. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120264.	4.0	48
123	Carbon-concentrating mechanisms in seagrasses. <i>Journal of Experimental Botany</i> , 2017, 68, 3773-3784.	4.8	48
124	Carbon dioxide as the exogenous inorganic carbon source for <i>Batrachospermum</i> and <i>Lemanea</i> . <i>British Phycological Journal</i> , 1981, 16, 165-175.	1.2	46
125	HOW BENTHIC MACROALGAE COPE WITH FLOWING FRESHWATER: RESOURCE ACQUISITION AND RETENTION. <i>Journal of Phycology</i> , 1992, 28, 133-146.	2.3	46
126	Ozone and life on the Archaean Earth. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 1889-1901.	3.4	46

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127	Insights into the evolution of CCMs from comparisons with other resource acquisition and assimilation processes. <i>Physiologia Plantarum</i> , 2008, 133, 4-14.	5.2	46
128	PRIMARY CARBON AND NITROGEN METABOLIC GENE EXPRESSION IN THE DIATOM <i>THALASSIOSIRA PSEUDONANA</i> (BACILLARIOPHYCEAE): DIEL PERIODICITY AND EFFECTS OF INORGANIC CARBON AND NITROGEN ¹ . <i>Journal of Phycology</i> , 2009, 45, 1083-1092.	2.3	46
129	Inorganic carbon accumulation by the marine diatom <i>Phaeodactylum tricornutum</i> . <i>European Journal of Phycology</i> , 1996, 31, 285-290.	2.0	45
130	Growth rate affects the responses of the green alga <i>Ulva lactuca</i> to external perturbations. <i>Plant, Cell and Environment</i> , 2014, 37, 512-519.	5.7	45
131	Polar auxin transport in relation to long-distance transport of nutrients in the Charales: Table 1.. <i>Journal of Experimental Botany</i> , 2013, 64, 1-9.	4.8	43
132	Active water transport in unicellular algae: where, why, and how. <i>Journal of Experimental Botany</i> , 2014, 65, 6279-6292.	4.8	43
133	Biological Approaches to Global Environment Change Mitigation and Remediation. <i>Current Biology</i> , 2009, 19, R615-R623.	3.9	42
134	Chloride: essential micronutrient and multifunctional beneficial ion. <i>Journal of Experimental Botany</i> , 2017, 38, erw421.	4.8	42
135	Algae. <i>Current Biology</i> , 2014, 24, R590-R595.	3.9	41
136	Blue carbon: past, present and future, with emphasis on macroalgae. <i>Biology Letters</i> , 2018, 14, 20180336.	2.3	41
137	Functional evolution of photochemical energy transformations in oxygen-producing organisms. <i>Functional Plant Biology</i> , 2009, 36, 505.	2.1	41
138	Oxygen Consumption: Photorespiration and Chlororespiration. <i>Advances in Photosynthesis and Respiration</i> , 2003, , 157-181.	1.0	40
139	Carboxysomes and peptidoglycan walls of cyanobacteria: possible physiological functions. <i>European Journal of Phycology</i> , 2003, 38, 47-53.	2.0	40
140	The evolution of autotrophy in relation to phosphorus requirement. <i>Journal of Experimental Botany</i> , 2013, 64, 4023-4046.	4.8	40
141	Influence of changes in CO ₂ concentration and temperature on marine phytoplankton ¹³ C/ ¹² C ratios: an analysis of possible mechanisms. <i>Global and Planetary Change</i> , 1993, 8, 1-12.	3.5	39
142	Evolution of tree nutrition. <i>Tree Physiology</i> , 2010, 30, 1050-1071.	3.1	38
143	The possible roles of algae in restricting the increase in atmospheric CO ₂ and global temperature. <i>European Journal of Phycology</i> , 2017, 52, 506-522.	2.0	38
144	Terrestrial rhizophytes and H ⁺ currents circulating over at least a millimetre: an obligate relationship?. <i>New Phytologist</i> , 1991, 117, 177-185.	7.3	36

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145	The Effect of Diel Temperature and Light Cycles on the Growth of <i>Nannochloropsis oculata</i> in a Photobioreactor Matrix. <i>PLoS ONE</i> , 2014, 9, e86047.	2.5	36
146	Limitations on microalgal growth at very low photon fluence rates: the role of energy slippage. <i>Photosynthesis Research</i> , 2006, 88, 299-310.	2.9	35
147	Photosynthesis in reproductive structures: costs and benefits. <i>Journal of Experimental Botany</i> , 2015, 66, 1699-1705.	4.8	35
148	What is the limit for photoautotrophic plankton growth rates?. <i>Journal of Plankton Research</i> , 2017, 39, 13-22.	1.8	35
149	Intraspecific chemical communication in microalgae. <i>New Phytologist</i> , 2017, 215, 516-530.	7.3	34
150	The C ₄ -like characteristics of the intertidal macroalga <i>Ascophyllum nodosum</i> (L.) Le Jolis (Fucales). <i>Journal of Experimental Botany</i> , 2017, 68, 1071-1081.	1.4	33
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