

Anthony W D Larkum

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2595744/publications.pdf>

Version: 2024-02-01

109
papers

5,234
citations

76326

40
h-index

98798

67
g-index

113
all docs

113
docs citations

113
times ranked

5097
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-resolved metagenomics provides insights into the functional complexity of microbial mats in Blue Holes, Shark Bay. <i>FEMS Microbiology Ecology</i> , 2022, 98, .	2.7	10
2	A Cyanobacteria Enriched Layer of Shark Bay Stromatolites Reveals a New <i>Acaryochloris</i> Strain Living in Near Infrared Light. <i>Microorganisms</i> , 2022, 10, 1035.	3.6	1
3	Time-resolved comparative molecular evolution of oxygenic photosynthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148400.	1.0	44
4	Global distribution of a chlorophyll <i>chl<i>a</i></i> cyanobacterial marker. <i>ISME Journal</i> , 2020, 14, 2275-2287.	9.8	41
5	Leaf growth in early development is key to biomass heterosis in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2020, 71, 2439-2450.	4.8	27
6	Water-oxidizing complex in Photosystem II: Its structure and relation to manganese-oxide based catalysts. <i>Coordination Chemistry Reviews</i> , 2020, 409, 213183.	18.8	61
7	Recent Advances in the Photosynthesis of Cyanobacteria and Eukaryotic Algae. <i>Advances in Photosynthesis and Respiration</i> , 2020, , 3-9.	1.0	1
8	Light-Harvesting in Cyanobacteria and Eukaryotic Algae: An Overview. <i>Advances in Photosynthesis and Respiration</i> , 2020, , 207-260.	1.0	4
9	Optical Properties of Corals Distort Variable Chlorophyll Fluorescence Measurements. <i>Plant Physiology</i> , 2019, 179, 1608-1619.	4.8	24
10	Effect of reduced irradiance on ¹³ C uptake, gene expression and protein activity of the seagrass <i>Zostera muelleri</i> . <i>Marine Environmental Research</i> , 2019, 149, 80-89.	2.5	2
11	Editorial: Optics and Ecophysiology of Coral Reef Organisms. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	2
12	Correlation of bio-optical properties with photosynthetic pigment and microorganism distribution in microbial mats from Hamelin Pool, Australia. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	18
13	Early Archean origin of Photosystem <i>psii</i> . <i>Geobiology</i> , 2019, 17, 127-150.	2.4	95
14	SeagrassDB: An open-source transcriptomics landscape for phylogenetically profiled seagrasses and aquatic plants. <i>Scientific Reports</i> , 2018, 8, 2749.	3.3	12
15	<i>In situ</i> metabolomic- and transcriptomic-profiling of the host-associated cyanobacteria <i>Prochloron</i> and <i>Acaryochloris marina</i> . <i>ISME Journal</i> , 2018, 12, 556-567.	9.8	7
16	Low oxygen affects photophysiology and the level of expression of two-carbon metabolism genes in the seagrass <i>Zostera muelleri</i> . <i>Photosynthesis Research</i> , 2018, 136, 147-160.	2.9	31
17	Photosynthesis and Metabolism of Seagrasses. , 2018, , 315-342.		13
18	Lack of Methylated Hopanoids Renders the Cyanobacterium <i>Nostoc punctiforme</i> Sensitive to Osmotic and pH Stress. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	13

#	ARTICLE	IF	CITATIONS
19	Carbon-concentrating mechanisms in seagrasses. <i>Journal of Experimental Botany</i> , 2017, 68, 3773-3784.	4.8	48
20	The “other” coral symbiont: <i>Ostreobium</i> diversity and distribution. <i>ISME Journal</i> , 2017, 11, 296-299.	9.8	72
21	Proposed mechanisms for water oxidation by Photosystem II and nanosized manganese oxides. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 156-174.	1.0	40
22	Non-intrusive Assessment of Photosystem II and Photosystem I in Whole Coral Tissues. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	19
23	In vivo Microscale Measurements of Light and Photosynthesis during Coral Bleaching: Evidence for the Optical Feedback Loop?. <i>Frontiers in Microbiology</i> , 2017, 8, 59.	3.5	64
24	Photosynthetic Acclimation of Symbiodinium in hospite Depends on Vertical Position in the Tissue of the Scleractinian Coral <i>Montastrea curta</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 230.	3.5	43
25	<i>Symbiodinium</i> sp. cells produce light-induced intra- and extracellular singlet oxygen, which mediates photodamage of the photosynthetic apparatus and has the potential to interact with the animal host in coral symbiosis. <i>New Phytologist</i> , 2016, 212, 472-484.	7.3	37
26	The Genome of a Southern Hemisphere Seagrass Species (<i>Zostera muelleri</i>). <i>Plant Physiology</i> , 2016, 172, 272-283.	4.8	88
27	The emergence of molecular profiling and omics techniques in seagrass biology; furthering our understanding of seagrasses. <i>Functional and Integrative Genomics</i> , 2016, 16, 465-480.	3.5	41
28	Under high light stress two Indo-Pacific coral species display differential photodamage and photorepair dynamics. <i>Marine Biology</i> , 2016, 163, 1.	1.5	7
29	Photosynthesis and Light Harvesting in Algae. , 2016, , 67-87.		16
30	“Super-quenching” state protects Symbiodinium from thermal stress” Implications for coral bleaching. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 840-847.	1.0	63
31	Genomic and proteomic characterization of two novel siphovirus infecting the sedentary facultative epibiont cyanobacterium <i>Scytonema</i> <i>caryochloris marina</i> . <i>Environmental Microbiology</i> , 2015, 17, 4239-4252.	3.8	25
32	Microenvironment and phylogenetic diversity of <i>Prochloron</i> inhabiting the surface of crustose didemnid ascidians. <i>Environmental Microbiology</i> , 2015, 17, 4121-4132.	3.8	5
33	Gas Transfer Controls Carbon Limitation During Biomass Production by Marine Microalgae. <i>ChemSusChem</i> , 2015, 8, 2727-2736.	6.8	17
34	Genome-wide survey of the seagrass <i>Zostera muelleri</i> suggests modification of the ethylene signalling network. <i>Journal of Experimental Botany</i> , 2015, 66, 1489-1498.	4.8	46
35	Chlorophyll <i>f</i> -driven photosynthesis in a cavernous cyanobacterium. <i>ISME Journal</i> , 2015, 9, 2108-2111.	9.8	56
36	The biological water-oxidizing complex at the nano-bio interface. <i>Trends in Plant Science</i> , 2015, 20, 559-568.	8.8	46

#	ARTICLE	IF	CITATIONS
37	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
38	Effective light absorption and absolute electron transport rates in the coral <i>Pocillopora damicornis</i> . <i>Plant Physiology and Biochemistry</i> , 2014, 83, 159-167.	5.8	37
39	Lateral light transfer ensures efficient resource distribution in symbiont-bearing corals. <i>Journal of Experimental Biology</i> , 2014, 217, 489-498.	1.7	88
40	Inhibition of photosynthetic CO ₂ fixation in the coral <i>Pocillopora damicornis</i> and its relationship to thermal bleaching. <i>Journal of Experimental Biology</i> , 2014, 217, 2150-62.	1.7	42
41	Rapid TaqMan-Based Quantification of Chlorophyll <i>d</i> -Containing Cyanobacteria in the Genus <i>Acaryochloris</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 3244-3249.	3.1	9
42	Action spectra of oxygen production and chlorophyll <i>a</i> fluorescence in the green microalga <i>Nannochloropsis oculata</i> . <i>Bioresource Technology</i> , 2014, 169, 320-327.	9.6	29
43	Photosynthetic acclimation of <i>Nannochloropsis oculata</i> investigated by multi-wavelength chlorophyll fluorescence analysis. <i>Bioresource Technology</i> , 2014, 167, 521-529.	9.6	28
44	The in situ light microenvironment of corals. <i>Limnology and Oceanography</i> , 2014, 59, 917-926.	3.1	70
45	Light Respiratory Processes and Gross Photosynthesis in Two Scleractinian Corals. <i>PLoS ONE</i> , 2014, 9, e110814.	2.5	31
46	Diversity of cyanobacterial biomarker genes from the stromatolites of Shark Bay, Western Australia. <i>Environmental Microbiology</i> , 2013, 15, 1464-1475.	3.8	21
47	Formyl group modification of chlorophyll <i>a</i> : a major evolutionary mechanism in oxygenic photosynthesis. <i>Plant, Cell and Environment</i> , 2013, 36, 521-527.	5.7	31
48	Ecological roles of zoosporic parasites in blue carbon ecosystems. <i>Fungal Ecology</i> , 2013, 6, 319-327.	1.6	7
49	Reactive oxygen production induced by near-infrared radiation in three strains of the Chl <i>d</i> -containing cyanobacterium <i>Acaryochloris marina</i> . <i>F1000Research</i> , 2013, 2, 44.	1.6	5
50	Reactive oxygen production induced by near-infrared radiation in three strains of the Chl <i>d</i> -containing cyanobacterium <i>Acaryochloris marina</i> . <i>F1000Research</i> , 2013, 2, 44.	1.6	10
51	The Golden Apples of the Sun: the History of Photosynthesis’so Far. <i>Advanced Topics in Science and Technology in China</i> , 2013, , 834-839.	0.1	0
52	Microbial diversity of biofilm communities in microniches associated with the didemnid ascidian <i>Lissoclinum patella</i> . <i>ISME Journal</i> , 2012, 6, 1222-1237.	9.8	82
53	Light transmission of the marine diatom <i>Coscinodiscus wailesii</i> . , 2012, , .		11
54	Biofilm Growth and Near-Infrared Radiation-Driven Photosynthesis of the Chlorophyll <i>d</i> -Containing Cyanobacterium <i>Acaryochloris marina</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 3896-3904.	3.1	24

#	ARTICLE	IF	CITATIONS
55	Microenvironmental Ecology of the Chlorophyll b-Containing Symbiotic Cyanobacterium Prochloron in the Didemnid Ascidian <i>Lissoclinum patella</i> . <i>Frontiers in Microbiology</i> , 2012, 3, 402.	3.5	36
56	In situ thermal dynamics of shallow water corals is affected by tidal patterns and irradiance. <i>Marine Biology</i> , 2012, 159, 1773-1782.	1.5	25
57	A Novel Epiphytic Chlorophyll <i>d</i> -Containing Cyanobacterium Isolated from a Mangrove-associated Red Alga. <i>Journal of Phycology</i> , 2012, 48, 1320-1327.	2.3	32
58	Thermal effects of tissue optics in symbiont-bearing reef-building corals. <i>Limnology and Oceanography</i> , 2012, 57, 1816-1825.	3.1	14
59	Light gradients and optical microniches in coral tissues. <i>Frontiers in Microbiology</i> , 2012, 3, 316.	3.5	147
60	Selection, breeding and engineering of microalgae for bioenergy and biofuel production. <i>Trends in Biotechnology</i> , 2012, 30, 198-205.	9.3	266
61	Endolithic chlorophyll <i>d</i> -containing phototrophs. <i>ISME Journal</i> , 2011, 5, 1072-1076.	9.8	95
62	Discovery of Cyanophage Genomes Which Contain Mitochondrial DNA Polymerase. <i>Molecular Biology and Evolution</i> , 2011, 28, 2269-2274.	8.9	20
63	Rapid Mass Movement of Chloroplasts during Segment Formation of the Calcifying Siphonolean Green Alga, <i>Halimeda macroloba</i> . <i>PLoS ONE</i> , 2011, 6, e20841.	2.5	13
64	Electrogenic plasma membrane H ⁺ -ATPase activity using voltage sensitive dyes. <i>Journal of Bioenergetics and Biomembranes</i> , 2010, 42, 387-393.	2.3	0
65	The molecular structure of the IsiA-Photosystem I supercomplex, modelled from high-resolution, crystal structures of Photosystem I and the CP43 protein. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 457-465.	1.0	14
66	Chromatic photoacclimation extends utilisable photosynthetically active radiation in the chlorophyll <i>d</i> -containing cyanobacterium, <i>Acaryochloris marina</i> . <i>Photosynthesis Research</i> , 2009, 101, 69-75.	2.9	55
67	IMAGING OF OXYGEN DYNAMICS WITHIN THE ENDOLITHIC ALGAL COMMUNITY OF THE MASSIVE CORAL <i>PORITES LOBATA</i> . <i>Journal of Phycology</i> , 2008, 44, 541-550.	2.3	53
68	The Function of MgDVP in a Chlorophyll <i>d</i> -Containing Organism. , 2008, , 1125-1128.		1
69	Photosynthesis and Metabolism in Seagrasses at the Cellular Level. , 2007, , 323-345.		4
70	Shopping for plastids. <i>Trends in Plant Science</i> , 2007, 12, 189-195.	8.8	152
71	An electron paramagnetic resonance investigation of the electron transfer reactions in the chlorophyll <i>d</i> -containing photosystem I of <i>Acaryochloris marina</i> . <i>FEBS Letters</i> , 2007, 581, 1567-1571.	2.8	7
72	Chapter 22. The Evolution of Photosynthesis. <i>Comprehensive Series in Photochemical and Photobiological Sciences</i> , 2007, , 491-521.	0.3	4

#	ARTICLE	IF	CITATIONS
73	Chromatic photoacclimation, photosynthetic electron transport and oxygen evolution in the Chlorophyll d-containing oxyphotobacterium <i>Acaryochloris marina</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 127-135.	1.0	52
74	Evolution of the Inner Light-Harvesting Antenna Protein Family of Cyanobacteria, Algae, and Plants. <i>Journal of Molecular Evolution</i> , 2007, 64, 321-331.	1.8	19
75	Biology of the Chlorophyll D-Containing Cyanobacterium <i>Acaryochloris Marina</i> . <i>Cellular Origin and Life in Extreme Habitats</i> , 2007, , 101-123.	0.3	11
76	The Evolution of Chlorophylls and Photosynthesis. , 2006, , 261-282.		30
77	CORAL PHOTOBIOLOGY STUDIED WITH A NEW IMAGING PULSE AMPLITUDE MODULATED FLUOROMETER1. <i>Journal of Phycology</i> , 2005, 41, 335-342.	2.3	89
78	A niche for cyanobacteria containing chlorophyll d. <i>Nature</i> , 2005, 433, 820-820.	27.8	185
79	Unique Origin and Lateral Transfer of Prokaryotic Chlorophyll-b and Chlorophyll-d Light-Harvesting Systems. <i>Molecular Biology and Evolution</i> , 2005, 22, 21-28.	8.9	67
80	Excitation energy transfer from phycobiliprotein to chlorophyll d in intact cells of <i>Acaryochloris marina</i> studied by time- and wavelength-resolved fluorescence spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 1016.	2.9	48
81	The nature of the photosystem II reaction centre in the chlorophyll d-containing prokaryote, <i>Acaryochloris marina</i> . <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 1060.	2.9	85
82	Structure of a large photosystem II supercomplex from <i>Acaryochloris marina</i> . <i>FEBS Letters</i> , 2005, 579, 1306-1310.	2.8	61
83	Chlorophyll d: the puzzle resolved. <i>Trends in Plant Science</i> , 2005, 10, 355-357.	8.8	114
84	Iron deficiency induces a chlorophyll d-binding Pcb antenna system around Photosystem I in <i>Acaryochloris marina</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1708, 367-374.	1.0	46
85	Contributions of Henrik Lundegårdh. , 2005, , 139-144.		5
86	The Biasing Effect of Compositional Heterogeneity on Phylogenetic Estimates May be Underestimated. <i>Systematic Biology</i> , 2004, 53, 638-643.	5.6	234
87	Raman properties of chlorophyll d, the major pigment of <i>Acaryochloris marina</i> : studies using both Raman spectroscopy and density functional theory. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004, 60, 527-534.	3.9	31
88	The Algae and their General Characteristics. <i>Advances in Photosynthesis and Respiration</i> , 2003, , 1-10.	1.0	7
89	Algal Plastids: Their Fine Structure and Properties. <i>Advances in Photosynthesis and Respiration</i> , 2003, , 11-28.	1.0	30
90	Light-Harvesting Systems in Algae. <i>Advances in Photosynthesis and Respiration</i> , 2003, , 277-304.	1.0	43

#	ARTICLE	IF	CITATIONS
91	Photoinhibition, UV-B and Algal Photosynthesis. <i>Advances in Photosynthesis and Respiration</i> , 2003, , 351-384.	1.0	56
92	Excitation Dynamics in the Core Antenna in the Photosystem I Reaction Center of the Chlorophyll d-Containing Photosynthetic Prokaryote <i>Acaryochloris marina</i> . <i>Journal of Physical Chemistry B</i> , 2003, 107, 1452-1457.	2.6	13
93	Photosynthesis in Algae. <i>Advances in Photosynthesis and Respiration</i> , 2003, , .	1.0	53
94	Examination of the Photophysical Processes of Chlorophyll d Leading to a Clarification of Proposed Uphill Energy Transfer Processes in Cells of <i>Acaryochloris marina</i> . <i>Photochemistry and Photobiology</i> , 2003, 77, 628.	2.5	26
95	Chlorophyll d as the major photopigment in <i>Acaryochloris marina</i> . <i>Journal of Porphyrins and Phthalocyanines</i> , 2002, 06, 763-773.	0.8	22
96	Raman spectroscopy of chlorophyll d from <i>Acaryochloris marina</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1556, 89-91.	1.0	28
97	The major light-harvesting pigment protein of <i>Acaryochloris marina</i> . <i>FEBS Letters</i> , 2002, 514, 149-152.	2.8	79
98	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
99	Estimating Internal Phosphorus Pools in Macroalgae Using Radioactive Phosphorus and Trichloroacetic Acid Extracts. <i>Analytical Biochemistry</i> , 2001, 297, 191-192.	2.4	4
100	Fluorescent pigments in corals are photoprotective. <i>Nature</i> , 2000, 408, 850-853.	27.8	579
101	Multiple strategies for a high light existence in a tropical marine macroalga. <i>Photosynthesis Research</i> , 1997, 53, 149-159.	2.9	17
102	Gene duplication and the evolution of photosynthetic reaction center proteins. <i>FEBS Letters</i> , 1996, 385, 193-196.	2.8	15
103	Photosynthetic inorganic carbon acquisition of <i>Posidonia australis</i> . <i>Aquatic Botany</i> , 1996, 55, 149-157.	1.6	51
104	Plastid origins. <i>Trends in Ecology and Evolution</i> , 1992, 7, 378-383.	8.7	25
105	Controversy on chloroplast origins. <i>FEBS Letters</i> , 1992, 301, 127-131.	2.8	64
106	CALCIFICATION IN THE GREEN ALGA HALIMEDA. I. AN ULTRASTRUCTURE STUDY OF THALLUS DEVELOPMENT1. <i>Journal of Phycology</i> , 1977, 13, 6-16.	2.3	63
107	Calcification in the Green Alga <i>Halimeda</i> . <i>Journal of Experimental Botany</i> , 1976, 27, 879-893.	4.8	136
108	Calcification in the Green Alga <i>Halimeda</i> . <i>Journal of Experimental Botany</i> , 1976, 27, 894-907.	4.8	42

#	ARTICLE	IF	CITATIONS
109	Photosynthesis and Metabolism in Seagrasses at the Cellular Level. , 0, , 323-345.		9