Min Chen

List of Publications by Year
in descending order

97 papers	4,490 citations	94269 37 h-index	110170 64 g-index
99 all docs	99 docs citations	99 times ranked	3250 citing authors

#	Article	IF	Citations
1	A Red-Shifted Chlorophyll. Science, 2010, 329, 1318-1319.	6.0	437
2	Expanding the solar spectrum used by photosynthesis. Trends in Plant Science, 2011, 16, 427-431.	4.3	356
3	Niche adaptation and genome expansion in the chlorophyll d -producing cyanobacterium Acaryochloris marina. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2005-2010.	3.3	210
4	Chlorophyll Modifications and Their Spectral Extension in Oxygenic Photosynthesis. Annual Review of Biochemistry, 2014, 83, 317-340.	5.0	194
5	A niche for cyanobacteria containing chlorophyll d. Nature, 2005, 433, 820-820.	13.7	185
6	A cyanobacterium that contains chlorophyll f â€“ a redâ€absorbing photopigment. FEBS Letters, 2012, 586, 3249-3254.	1.3	150
7	Extinction coefficient for red-shifted chlorophylls: Chlorophyll d and chlorophyll f. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1292-1298.	0.5	124
8	Chlorophylls, ligands and assembly of light-harvesting complexes in chloroplasts. Photosynthesis Research, 2007, 94, 387-400.	1.6	110
9	The Genome of Heliobacterium modesticaldum , a Phototrophic Representative of the Firmicutes Containing the Simplest Photosynthetic Apparatus. Journal of Bacteriology, 2008, 190, 4687-4696.	1.0	109
10	Endolithic chlorophyll d-containing phototrophs. ISME Journal, 2011, 5, 1072-1076.	4.4	95
11	Characterization of red-shifted phycobilisomes isolated from the chlorophyll f -containing cyanobacterium Halomicronema hongdechloris. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 107-114.	0.5	91
12	Structure of a photosystem II supercomplex isolated from Prochloron didemni retaining its chlorophyll a/b light-harvesting system. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9050-9054.	3.3	86
13	The nature of the photosystem II reaction centre in the chlorophyll d-containing prokaryote, Acaryochloris marina. Photochemical and Photobiological Sciences, 2005, 4, 1060.	1.6	85
14	Spectral expansion and antenna reduction can enhance photosynthesis for energy production. Current Opinion in Chemical Biology, 2013, 17, 457-461.	2.8	85
15	Extending the limits of natural photosynthesis and implications for technical light harvesting. Journal of Porphyrins and Phthalocyanines, 2013, 17, 1-15.	0.4	84
16	The major light-harvesting pigment protein ofAcaryochloris marina. FEBS Letters, 2002, 514, 149-152.	1.3	79
17	Structural basis for the adaptation and function of chlorophyll f in photosystem I. Nature Communications, 2020, 11, 238.	5.8	75
18	Optimization and effects of different culture conditions on growth of Halomicronema hongdechloris â€“ a filamentous cyanobacterium containing chlorophyll f. Frontiers in Plant Science, 2014, 5, 67.	1.7	71

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19	Unique Origin and Lateral Transfer of Prokaryotic Chlorophyll-b and Chlorophyll-d Light-Harvesting Systems. Molecular Biology and Evolution, 2005, 22, 21-28.	3.5	67
20	Chlorophyll d and Acaryochloris marina: current status. Photosynthesis Research, 2013, 116, 277-293.	1.6	66
21	18O Labeling of Chlorophyll d in Acaryochloris marina Reveals That Chlorophyll a and Molecular Oxygen Are Precursors. Journal of Biological Chemistry, 2010, 285, 28450-28456.	1.6	63
22	Supramolecular organization of phycobiliproteins in the chlorophyll dâ€containing cyanobacterium Acaryochloris marina. FEBS Letters, 2009, 583, 2535-2539.	1.3	62
23	Structure of a large photosystem II supercomplex fromAcaryochloris marina. FEBS Letters, 2005, 579, 1306-1310.	1.3	61
24	A new chlorophyll d-containing cyanobacterium: evidence for niche adaptation in the genus Acaryochloris. ISME Journal, 2010, 4, 1456-1469.	4.4	59
25	Photosynthesis supported by a chlorophyll f-dependent, entropy-driven uphill energy transfer in Halomicronema hongdechloris cells adapted to far-red light. Photosynthesis Research, 2019, 139, 185-201.	1.6	59
26	Chromatic photoacclimation extends utilisable photosynthetically active radiation in the chlorophyll d-containing cyanobacterium, Acaryochloris marina. Photosynthesis Research, 2009, 101, 69-75.	1.6	55
27	Novel chlorophylls and new directions in photosynthesis research. Functional Plant Biology, 2015, 42, 493.	1.1	55
28	Chromatic photoacclimation, photosynthetic electron transport and oxygen evolution in the Chlorophyll d-containing oxyphotobacterium Acaryochloris marina. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 127-135.	0.5	52
29	Structure of Chlorophyll f. Organic Letters, 2013, 15, 1588-1590.	2.4	50
30	Excitation energy transfer from phycobiliprotein to chlorophyll d in intact cells of Acaryochloris marina studied by time- and wavelength-resolved fluorescence spectroscopy. Photochemical and Photobiological Sciences, 2005, 4, 1016.	1.6	48
31	Photosynthetic Apparatus of Antenna-reaction Centres Supercomplexes in Oxyphotobacteria: Insight through Significance of Pcb/IsiA Proteins. Photosynthesis Research, 2005, 86, 165-173.	1.6	47
32	Iron deficiency induces a chlorophyll d-binding Pcb antenna system around Photosystem I in Acaryochloris marina. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1708, 367-374.	0.5	46
33	Influence of Structure on Binding of Chlorophylls to Peptide Ligands. Journal of the American Chemical Society, 2005, 127, 2052-2053.	6.6	43
34	Spectroscopic Studies of Photosystem II in Chlorophylld-ContainingAcaryochloris marinaâ€. Biochemistry, 2005, 44, 11178-11187.	1.2	43
35	Biogeography of Photosynthetic Light-Harvesting Genes in Marine Phytoplankton. PLoS ONE, 2009, 4, e4601.	1.1	43
36	Widespread occurrence and unexpected diversity of redâ€shifted chlorophyll producing cyanobacteria in humid subtropical forest ecosystems. Environmental Microbiology, 2019, 21, 1497-1510.	1.8	41

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37	UVâ€B induced biosynthesis of a novel sunscreen compound in solar radiation and desiccation tolerant cyanobacteria. Environmental Microbiology, 2018, 20, 200-213.	1.8	40
38	Spectroscopic Properties of Chlorophyll f. Journal of Physical Chemistry B, 2013, 117, 11309-11317.	1.2	39
39	A unique regulation of the expression of the psbA, psbD, and psbE genes, encoding the D1, D2 and cytochrome b559 subunits of the Photosystem II complex in the chlorophyll d containing cyanobacterium Acaryochloris marina. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1083-1094.	0.5	38
40	In vitro Conversion of Vinyl to Formyl Groups in Naturally Occurring Chlorophylls. Scientific Reports, 2015, 4, 6069.	1.6	36
41	Characterization of isolated photosystem I from Halomicronema hongdechloris, a chlorophyll f-producing cyanobacterium. Photosynthetica, 2018, 56, 306-315.	0.9	36
42	A Novel Epiphytic Chlorophyll dâ€containing Cyanobacterium Isolated from a Mangroveâ€associated Red Alga. Journal of Phycology, 2012, 48, 1320-1327.	1.0	32
43	Phylogenetic analysis of the light-harvesting system in Chromera velia. Photosynthesis Research, 2012, 111, 19-28.	1.6	32
44	Genomic and transcriptomic insights into the survival of the subaerial cyanobacterium Nostoc flagelliforme in arid and exposed habitats. Environmental Microbiology, 2019, 21, 845-863.	1.8	32
45	Raman properties of chlorophyll d, the major pigment of Acaryochloris marina: studies using both Raman spectroscopy and density functional theory. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 527-534.	2.0	31
46	Energy transfer processes in chlorophyll f-containing cyanobacteria using time-resolved fluorescence spectroscopy on intact cells. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1484-1489.	0.5	31
47	Nomenclature for membrane-bound light-harvesting complexes of cyanobacteria. Photosynthesis Research, 2008, 95, 147-154.	1.6	29
48	Raman spectroscopy of chlorophyll d from Acaryochloris marina. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1556, 89-91.	0.5	28
49	Examination of the Photophysical Processes of Chlorophyll d Leading to a Clarification of Proposed Uphill Energy Transfer Processes in Cells of Acaryochloris marinaÂ¶. Photochemistry and Photobiology, 2003, 77, 628.	1.3	26
50	Excited state properties of chlorophyll f in organic solvents at ambient and cryogenic temperatures. Photosynthesis Research, 2014, 121, 25-34.	1.6	26
51	Subcellular pigment distribution is altered under far-red light acclimation in cyanobacteria that contain chlorophyll f. Photosynthesis Research, 2017, 134, 183-192.	1.6	24
52	Orange and red carotenoid proteins are involved in the adaptation of the terrestrial cyanobacterium Nostoc flagelliforme to desiccation. Photosynthesis Research, 2019, 140, 103-113.	1.6	24
53	Energy transfer in the chlorophyll f-containing cyanobacterium, Halomicronema hongdechloris, analyzed by time-resolved fluorescence spectroscopies. Photosynthesis Research, 2015, 125, 115-122.	1.6	23
54	Genome and proteome of the chlorophyll f-producing cyanobacterium Halomicronema hongdechloris: adaptative proteomic shifts under different light conditions. BMC Genomics, 2019, 20, 207.	1.2	23

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55	Chlorophylldas the major photopigment inAcaryochloris marina. Journal of Porphyrins and Phthalocyanines, 2002, 06, 763-773.	0.4	22
56	The C21-formyl group in chlorophyll f originates from molecular oxygen. Journal of Biological Chemistry, 2017, 292, 19279-19289.	1.6	20
57	Theoretical study on the thermodynamic properties of chlorophyll d-peptides coordinating ligand. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 603-609.	0.5	19
58	Evolution of the Inner Light-Harvesting Antenna Protein Family of Cyanobacteria, Algae, and Plants. Journal of Molecular Evolution, 2007, 64, 321-331.	0.8	19
59	A unique photosystem I reaction center from a chlorophyll dâ€containing cyanobacterium Acaryochloris marina. Journal of Integrative Plant Biology, 2021, 63, 1740-1752.	4.1	19
60	Comparative analysis of thylakoid protein complexes in the mesophyll and bundle sheath cells from C₃, C₄ and C₃â€“C₄ Paniceae grasses. Physiologia Plantarum, 2019, 166, 134-147.	2.6	18
61	Correlation of bio-optical properties with photosynthetic pigment and microorganism distribution in microbial mats from Hamelin Pool, Australia. FEMS Microbiology Ecology, 2019, 95, .	1.3	18
62	Spectral properties of bacteriophytochrome AM1_5894 in the chlorophyll d-containing cyanobacterium Acaryochloris marina. Scientific Reports, 2016, 6, 27547.	1.6	16
63	Characterization of the sulfur-formation (suf) genes in Synechocystis sp. PCC 6803 under photoautotrophic and heterotrophic growth conditions. Planta, 2017, 246, 927-938.	1.6	16
64	Genome Sequence of Rhodoferax antarcticus ANT.BRT; A Psychrophilic Purple Nonsulfur Bacterium from an Antarctic Microbial Mat. Microorganisms, 2017, 5, 8.	1.6	16
65	The molecular structure of the IsiAâ€“Photosystem I supercomplex, modelled from high-resolution, crystal structures of Photosystem I and the CP43 protein. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 457-465.	0.5	14
66	Excitation Dynamics in the Core Antenna in the Photosystem I Reaction Center of the Chlorophylld-Containing Photosynthetic ProkaryoteAcaryochloris marina. Journal of Physical Chemistry B, 2003, 107, 1452-1457.	1.2	13
67	Spectral signatures of five hydroxymethyl chlorophyll a derivatives chemically derived from chlorophyll b or chlorophyll f. Photosynthesis Research, 2019, 140, 115-127.	1.6	13
68	Draft Genome Sequence of the Filamentous Cyanobacterium Leptolyngbya sp. Strain Heron Island J, Exhibiting Chromatic Acclimation. Genome Announcements, 2014, 2, .	0.8	12
69	The identification of IsiA proteins binding chlorophyll d in the cyanobacterium Acaryochloris marina. Photosynthesis Research, 2018, 135, 165-175.	1.6	11
70	Biology of the Chlorophyll D-Containing Cyanobacterium Acaryochloris Marina. Cellular Origin and Life in Extreme Habitats, 2007, , 101-123.	0.3	11
71	Increased growth and pigment content ofChromera veliain mixotrophic culture. FEMS Microbiology Ecology, 2014, 88, 121-128.	1.3	10
72	Farâ€red light promotes biofilm formation in the cyanobacterium Acaryochloris marina. Environmental Microbiology, 2018, 20, 535-545.	1.8	9

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73	Solvent Effect on Supramolecular Self-Assembly of Chlorophylls a on Chemically Reduced Graphene Oxide. Langmuir, 2020, 36, 13575-13582.	1.6	9
74	An electron paramagnetic resonance investigation of the electron transfer reactions in the chlorophylldcontaining photosystem I ofAcaryochloris marina. FEBS Letters, 2007, 581, 1567-1571.	1.3	7
75	Chlorophylls d and f: Synthesis, occurrence, light-harvesting, and pigment organization in chlorophyll-binding protein complexes. Advances in Botanical Research, 2019, , 121-139.	0.5	7
76	Newly Isolated Chl d-Containing Cyanobacteria. Advanced Topics in Science and Technology in China, 2013, , 686-690.	0.0	6
77	The Complex Transcriptional Response of Acaryochloris marina to Different Oxygen Levels. G3: Genes, Genomes, Genetics, 2017, 7, 517-532.	0.8	6
78	Hydroxylation of the C132 and C18 carbons of chlorophylls by heme and molecular oxygen. Journal of Porphyrins and Phthalocyanines, 2015, 19, 1007-1013.	0.4	5
79	Effects of Anaerobic Conditions on Photosynthetic Units of Acaryochloris Marina. Advanced Topics in Science and Technology in China, 2013, , 121-124.	0.0	5
80	Kovacikia minuta sp. nov. (Leptolyngbyaceae, Cyanobacteria), a new freshwater chlorophyll fâ€producing cyanobacterium. Journal of Phycology, 2022, 58, 424-435.	1.0	5
81	Chlorophyll f can replace chlorophyll a in the soluble antenna of dinoflagellates. Photosynthesis Research, 2022, 152, 13-22.	1.6	4
82	Tracking the molecular evolution of photosynthesis through characterization of atomic contents of the photosynthetic units. Photosynthesis Research, 2008, 97, 255-261.	1.6	3
83	Isolation of Complete Chloroplasts from Chromera Velia â€" the Photosynthetic Relative of Parasitic Apicomplexa. Advanced Topics in Science and Technology in China, 2013, , 436-439.	0.0	3
84	Photosynthesis | Photosynthesis. , 2021, , 150-156.		3
85	Molecular Basis of Antenna System Adaptation in a Chl d-Containing Organism. , 2008, , 243-246.		3
86	Examination of the Photophysical Processes of Chlorophyll d Leading to a Clarification of Proposed Uphill Energy Transfer Processes in Cells of Acaryochloris marinaÂ¶. Photochemistry and Photobiology, 2003, 77, 628-637.	1.3	2
87	The specificity of the bilin lyase CpcS for chromophore attachment to allophycocyanin in the chlorophyll f-containing cyanobacterium Halomicronima hongdechloris. Photosynthesis Research, 2021, , 1.	1.6	2
88	Photosynthesis | Chlorophylls. , 2021, , 157-162.		2
89	Light Harvesting Modulation in Photosynthetic Organisms. Advances in Photosynthesis and Respiration, 2021, , 223-246.	1.0	1
90	The Evolution of Far-Red Light Perception in Acaryochloris Marina, a Chlorophyll d-Containing Cyanobacterium. Advanced Topics in Science and Technology in China, 2013, , 638-641.	0.0	1

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91	Chapter 15 The Chemistry and Biology of Light-Harvesting Complex II and Thylakoid Biogenesis: raison dâ€™etre of Chlorophylls b and c. Advances in Photosynthesis and Respiration, 2010, , 213-229.	1.0	1
92	The Function of MgDVP in a Chlorophyll d-Containing Organism. , 2008, , 1125-1128.		1
93	Molecular Mechanism of Photosynthesis Driven by Red-Shifted Chlorophylls. , 2020, , 3-42.		1
94	A method for growing a monospecific epilithic cyanobacterial biofilm for use in marine ecological experiments. Journal of Experimental Marine Biology and Ecology, 2016, 480, 17-25.	0.7	0
95	Modelling the Structure of the IsiA-PS I Supercomplex. , 2008, , 347-350.		0
96	Genomic Contributions to Understanding the Evolution of Red Algal Plastids and Pigment Biosynthesis. Cellular Origin and Life in Extreme Habitats, 2010, , 261-273.	0.3	0
97	Functioning of the Bidirectional Hydrogenase in Different Unicellular Cyanobacteria. Advanced Topics in Science and Technology in China, 2013, , 733-736.	0.0	0