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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110 papers	2,502 citations	28 h-index	45 g-index
120 ext. papers	3,014 ext. citations	5.5 avg, IF	5.3 L-index

#	Paper	IF	Citations
110	DNA-free two-gene knockout in <i>Chlamydomonas reinhardtii</i> via CRISPR-Cas9 ribonucleoproteins. <i>Scientific Reports</i> , 2016 , 6, 30620	4.9	188
109	Pear fruit extract-assisted room-temperature biosynthesis of gold nanoplates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 75, 584-9	6	185
108	Truncated chlorophyll antenna size of the photosystems: a practical method to improve microalgal productivity and hydrogen production in mass culture. <i>International Journal of Hydrogen Energy</i> , 2002 , 27, 1257-1264	6.7	155
107	Comparative analyses of lipidomes and transcriptomes reveal a concerted action of multiple defensive systems against photooxidative stress in <i>Haematococcus pluvialis</i> . <i>Journal of Experimental Botany</i> , 2014 , 65, 4317-34	7	115
106	A mutant of the green alga <i>Dunaliella salina</i> constitutively accumulates zeaxanthin under all growth conditions. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 115-24	4.9	92
105	Targeted knockout of phospholipase A to increase lipid productivity in <i>Chlamydomonas reinhardtii</i> for biodiesel production. <i>Bioresource Technology</i> , 2019 , 271, 368-374	11	69
104	Involvement of zeaxanthin and of the Cbr protein in the repair of photosystem II from photoinhibition in the green alga <i>Dunaliella salina</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2001 , 1506, 244-59	4.6	68
103	Photoautotrophic production of macular pigment in a <i>Chlamydomonas reinhardtii</i> strain generated by using DNA-free CRISPR-Cas9 RNP-mediated mutagenesis. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 719-728	4.9	56
102	Role of the reversible xanthophyll cycle in the photosystem II damage and repair cycle in <i>Dunaliella salina</i> . <i>Plant Physiology</i> , 2003 , 132, 352-64	6.6	53
101	Improving lipid production by strain development in microalgae: Strategies, challenges and perspectives. <i>Bioresource Technology</i> , 2019 , 292, 121953	11	52
100	Antifreeze protein in Antarctic marine diatom, <i>Chaetoceros neogracile</i> . <i>Marine Biotechnology</i> , 2010 , 12, 630-9	3.4	51
99	Creating Anti-icing Surfaces via the Direct Immobilization of Antifreeze Proteins on Aluminum. <i>Scientific Reports</i> , 2015 , 5, 12019	4.9	50
98	Draft Nuclear Genome Sequence of the Halophilic and Beta-Carotene-Accumulating Green Alga Strain CCAP19/18. <i>Genome Announcements</i> , 2017 , 5,		49
97	Synergistic effect of multiple stress conditions for improving microalgal lipid production. <i>Algal Research</i> , 2016 , 19, 215-224	5	48
96	Dynamic response of the transcriptome of a psychrophilic diatom, <i>Chaetoceros neogracile</i> , to high irradiance. <i>Planta</i> , 2010 , 231, 349-60	4.7	45
95	Utilizing the algicidal activity of aminoclay as a practical treatment for toxic red tides. <i>Scientific Reports</i> , 2013 , 3, 1292	4.9	42
94	Transcriptome analysis of acclimatory responses to thermal stress in Antarctic algae. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 367, 635-41	3.4	42

93	Cell cycle-dependent regulation of telomerase activity by auxin, abscisic acid and protein phosphorylation in tobacco BY-2 suspension culture cells. <i>Plant Journal</i> , 2002 , 29, 617-26	6.9	42
92	Development of a new constitutive expression system for the transformation of the diatom <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2015 , 11, 50-54	5	40
91	Gene expression profile analysis in astaxanthin-induced <i>Haematococcus pluvialis</i> using a cDNA microarray. <i>Planta</i> , 2006 , 223, 1231-42	4.7	37
90	Up-regulation of photoprotection and PSII-repair gene expression by irradiance in the unicellular green alga <i>Dunaliella salina</i> . <i>Marine Biotechnology</i> , 2006 , 8, 120-8	3.4	36
89	Stabilized and Immobilized Carbonic Anhydrase on Electrospun Nanofibers for Enzymatic CO Conversion and Utilization in Expedited Microalgal Growth. <i>Environmental Science & Technology</i> , 2020 , 54, 1223-1231	10.3	36
88	Isolation, identification and characterization of algicidal bacteria against <i>Stephanodiscus hantzschii</i> and <i>Peridinium bipes</i> for the control of freshwater winter algal blooms. <i>Journal of Applied Phycology</i> , 2008 , 20, 375-386	3.2	33
87	Transcriptomic analysis of <i>Haematococcus lacustris</i> during astaxanthin accumulation under high irradiance and nutrient starvation. <i>Biotechnology and Bioprocess Engineering</i> , 2011 , 16, 698-705	3.1	32
86	Loss of CpSRP54 function leads to a truncated light-harvesting antenna size in <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017 , 1858, 45-55	4.6	30
85	Improvement in modular scalability of polymeric thin-film photobioreactor for autotrophic culturing of <i>Haematococcus pluvialis</i> using industrial flue gas. <i>Bioresource Technology</i> , 2018 , 249, 519-526	11	30
84	Enhanced lipid productivity in AGP knockout marine microalga <i>Tetraselmis</i> sp. using a DNA-free CRISPR-Cas9 RNP method. <i>Bioresource Technology</i> , 2020 , 303, 122932	11	29
83	Thiazolidinediones as a novel class of algicides against red tide harmful algal species. <i>Applied Biochemistry and Biotechnology</i> , 2010 , 162, 2273-83	3.2	28
82	Deletion of the chloroplast LTD protein impedes LHCl import and PSI-LHCl assembly in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Experimental Botany</i> , 2018 , 69, 1147-1158	7	27
81	Site-Specific Gene Knock-Out and On-Site Heterologous Gene Overexpression in via a CRISPR-Cas9-Mediated Knock-in Method. <i>Frontiers in Plant Science</i> , 2020 , 11, 306	6.2	27
80	Gene Regulatory Networks for the Haploid-to-Diploid Transition of. <i>Plant Physiology</i> , 2017 , 175, 314-332	6.6	25
79	Algicidal activity of thiazolidinedione derivatives against harmful algal blooming species. <i>Marine Biotechnology</i> , 2012 , 14, 312-22	3.4	24
78	One-pot enzymatic conversion of carbon dioxide and utilization for improved microbial growth. <i>Environmental Science & Technology</i> , 2015 , 49, 4466-72	10.3	21
77	Enhancing lipid productivity by modulating lipid catabolism using the CRISPR-Cas9 system in <i>Chlamydomonas</i> . <i>Journal of Applied Phycology</i> , 2020 , 32, 2829-2840	3.2	21
76	Expression of the high light-inducible <i>Dunaliella</i> LIP promoter in <i>Chlamydomonas reinhardtii</i> . <i>Planta</i> , 2013 , 238, 1147-56	4.7	21

75	Cryoprotective effect of an antifreeze protein purified from <i>Tenebrio molitor</i> larvae on vegetables. <i>Food Hydrocolloids</i> , 2019 , 94, 585-591	10.6	20
74	Comparison of the responses of two <i>Dunaliella</i> strains, <i>Dunaliella salina</i> CCAP 19/18 and <i>Dunaliella bardawil</i> to light intensity with special emphasis on carotenogenesis. <i>Algae</i> , 2013 , 28, 203-211	2.4	20
73	Introducing <i>Dunaliella</i> LIP promoter containing light-inducible motifs improves transgenic expression in <i>Chlamydomonas reinhardtii</i> . <i>Biotechnology Journal</i> , 2016 , 11, 384-92	5.6	20
72	A new coccolith modified electrode-based biosensor using a cognate pair of aptamers with sandwich-type binding. <i>Biosensors and Bioelectronics</i> , 2019 , 123, 160-166	11.8	19
71	Temporal and spatial regulation of the expression of 1-aminocyclopropane-1-carboxylate oxidase by ethylene in mung bean (<i>Vigna radiata</i>). <i>Physiologia Plantarum</i> , 1999 , 105, 132-140	4.6	19
70	Development of a <i>Dunaliella tertiolecta</i> Strain with Increased Zeaxanthin Content Using Random Mutagenesis. <i>Marine Drugs</i> , 2017 , 15,	6	18
69	Isolation and characterization of a xanthophyll aberrant mutant of the green alga <i>Nannochloropsis oculata</i> . <i>Marine Biotechnology</i> , 2006 , 8, 238-45	3.4	18
68	Isolation and characterization of antifreeze proteins from the antarctic marine microalga <i>Pyramimonas gelidicola</i> . <i>Marine Biotechnology</i> , 2014 , 16, 502-12	3.4	16
67	An intracellular antifreeze protein from an Antarctic microalga that responds to various environmental stresses. <i>FASEB Journal</i> , 2014 , 28, 4924-35	0.9	16
66	Gene expression profiling of <i>Dunaliella</i> sp. acclimated to different salinities. <i>Phycological Research</i> , 2010 , 58, 17-28	1.3	16
65	Biogenic Nano-Synthesis; towards the Efficient Production of the Biocompatible Gold Nanoparticles. <i>Bulletin of the Korean Chemical Society</i> , 2010 , 31, 2771-2775	1.2	16
64	Overexpression of malic enzyme isoform 2 in <i>Chlamydomonas reinhardtii</i> PTS42 increases lipid production. <i>Bioresource Technology Reports</i> , 2019 , 7, 100239	4.1	15
63	Conversion of carbon dioxide to oxaloacetate using integrated carbonic anhydrase and phosphoenolpyruvate carboxylase. <i>Bioprocess and Biosystems Engineering</i> , 2013 , 36, 1923-8	3.7	15
62	New Cysteine-Rich Ice-Binding Protein Secreted from Antarctic Microalga, <i>Chloromonas</i> sp. <i>PLoS ONE</i> , 2016 , 11, e0154056	3.7	15
61	Development of a <i>Chlorella vulgaris</i> mutant by chemical mutagenesis as a producer for natural violaxanthin. <i>Algal Research</i> , 2020 , 46, 101790	5	14
60	Sedimentation rate-based screening of oleaginous microalgae for utilization as a direct combustion fuel. <i>Bioresource Technology</i> , 2019 , 293, 122045	11	14
59	Exogenous Gene Integration for Microalgal Cell Transformation Using a Nanowire-Incorporated Microdevice. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27554-61	9.5	14
58	Photosystem II antenna complexes CP26 and CP29 are essential for nonphotochemical quenching in <i>Chlamydomonas reinhardtii</i> . <i>Plant, Cell and Environment</i> , 2020 , 43, 496-509	8.4	14

57	Identification and characterization of a new strain of the unicellular green alga <i>Dunaliella salina</i> (Teod.) from Korea. <i>Journal of Microbiology and Biotechnology</i> , 2008 , 18, 821-7	3.3	14
56	Oxaloacetate and malate production in engineered <i>Escherichia coli</i> by expression of codon-optimized phosphoenolpyruvate carboxylase2 gene from <i>Dunaliella salina</i> . <i>Bioprocess and Biosystems Engineering</i> , 2013 , 36, 127-31	3.7	13
55	Enhanced efficacy of TD53, a novel algicidal agent, against the harmful algae via the liposomal delivery system. <i>International Journal of Pharmaceutics</i> , 2011 , 405, 137-41	6.5	13
54	The generation of metabolic changes for the production of high-purity zeaxanthin mediated by CRISPR-Cas9 in <i>Chlamydomonas reinhardtii</i> . <i>Microbial Cell Factories</i> , 2020 , 19, 220	6.4	13
53	Contrasting photoadaptive strategies of two morphologically distinct <i>Dunaliella</i> species under various salinities. <i>Journal of Applied Phycology</i> , 2015 , 27, 1053-1062	3.2	12
52	Carotenoid Biosynthesis in <i>Dunaliella</i> (Chlorophyta) 2009 , 147-171		12
51	Annotation and expression profile analysis of cDNAs from the Antarctic diatom <i>Chaetoceros neogracile</i> . <i>Journal of Microbiology and Biotechnology</i> , 2007 , 17, 1330-7	3.3	12
50	Frozen assembly of gold nanoparticles for rapid analysis of antifreeze protein activity. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 752-7	11.8	11
49	Identification of distinct pH- and zeaxanthin-dependent quenching in LHCSR3 from. <i>ELife</i> , 2021 , 10,	8.9	10
48	Enhanced biomass production by <i>Phaeodactylum tricornutum</i> overexpressing phosphoenolpyruvate carboxylase. <i>Algal Research</i> , 2018 , 31, 489-496	5	9
47	Lipid turnover between membrane lipids and neutral lipids via inhibition of diacylglycerol N,N,N-trimethylhomoserine synthesis in <i>Chlamydomonas reinhardtii</i> . <i>Algal Research</i> , 2017 , 27, 162-169	5	9
46	Identification of the carbonic anhydrases from the unicellular green alga <i>Dunaliella salina</i> strain CCAP 19/18. <i>Algal Research</i> , 2016 , 19, 12-20	5	8
45	Cyanobacteria-specific algicidal mechanism of bioinspired naphthoquinone derivative, NQ 2-0. <i>Scientific Reports</i> , 2018 , 8, 11595	4.9	8
44	A novel thiazolidinedione derivative TD118 showing selective algicidal effects for red tide control. <i>World Journal of Microbiology and Biotechnology</i> , 2014 , 30, 1603-14	4.4	8
43	Biogenic materialization using pear extract intended for the synthesis and design of ordered gold nanostructures. <i>Journal of Materials Science</i> , 2011 , 46, 4741-4747	4.3	8
42	De novo transcriptome profile of coccolithophorid alga <i>Emiliania huxleyi</i> CCMP371 at different calcium concentrations with proteome analysis. <i>PLoS ONE</i> , 2019 , 14, e0221938	3.7	7
41	Identification and Functional Analysis of the Promoter of Using Heterologous Model Strains. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	7
40	Enhanced production of biomass and lipids by supplying CO ₂ in marine microalga <i>Dunaliella</i> sp. <i>Journal of Microbiology</i> , 2013 , 51, 773-6	3	7

39	Identification and Characterization of an Isoform Antifreeze Protein from the Antarctic Marine Diatom, <i>Chaetoceros neogracile</i> and Suggestion of the Core Region. <i>Marine Drugs</i> , 2017 , 15,	6	7
38	Enhanced pyruvate metabolism in plastids by overexpression of putative plastidial pyruvate transporter in. <i>Biotechnology for Biofuels</i> , 2020 , 13, 120	7.8	7
37	The alga <i>Dunaliella</i> revisited: Looking back and moving forward with model and production organisms. <i>Algal Research</i> , 2020 , 49, 101948	5	6
36	Combination of 1,4-naphthoquinone with benzothiazoles had selective algicidal effects against harmful algae. <i>Biotechnology and Bioprocess Engineering</i> , 2013 , 18, 932-941	3.1	6
35	Improvement of the phosphoenolpyruvate carboxylase activity of <i>Phaeodactylum tricornutum</i> PEPCase 1 through protein engineering. <i>Enzyme and Microbial Technology</i> , 2014 , 60, 64-71	3.8	6
34	Construction of target-specific virus-like particles for the delivery of algicidal compounds to harmful algae. <i>Environmental Microbiology</i> , 2015 , 17, 1463-74	5.2	5
33	NMR study of the antifreeze activities of active and inactive isoforms of a type III antifreeze protein. <i>FEBS Letters</i> , 2016 , 590, 4202-4212	3.8	5
32	Genomic adaptations of the green alga <i>Dunaliella salina</i> to life under high salinity. <i>Algal Research</i> , 2020 , 50, 101990	5	5
31	LPA2 protein is involved in photosystemIII assembly in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2021 , 107, 1648-1662	6.9	5
30	Establishment of a Genome Editing Tool Using CRISPR-Cas9 in UTEX395. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
29	Sex-linked deubiquitinase establishes uniparental transmission of chloroplast DNA.. <i>Nature Communications</i> , 2022 , 13, 1133	17.4	5
28	Expression of telomerase activity is closely correlated with the capacity for cell division in tobacco plants 2001 , 44, 168-171		4
27	Calcium-related genes associated with intracellular calcification of <i>Emiliania huxleyi</i> (Haptophyta) CCMP 371. <i>Algae</i> , 2018 , 33, 181-189	2.4	4
26	Augmented CO tolerance by expressing a single H-pump enables microalgal valorization of industrial flue gas. <i>Nature Communications</i> , 2021 , 12, 6049	17.4	4
25	Homologous sense and antisense expression of a gene in <i>Dunaliella tertiolecta</i> . <i>Planta</i> , 2015 , 242, 1051-1058	4.7	3
24	Proteomic Profiling of Using a Three-Dimensional Separation Method Combined with Tandem Mass Spectrometry. <i>Molecules</i> , 2020 , 25,	4.8	3
23	Arginine-fed cultures generates triacylglycerol by triggering nitrogen starvation responses during robust growth in <i>Chlamydomonas</i> . <i>Algal Research</i> , 2020 , 46, 101782	5	3
22	Vibration-induced stress priming during seed culture increases microalgal biomass in high shear field-cultivation. <i>Bioresource Technology</i> , 2018 , 254, 340-346	11	3

21	DNA-free Genome Editing of Using CRISPR and Subsequent Mutant Analysis. <i>Bio-protocol</i> , 2017 , 7, e2352.	2.9	3
20	Analysis of expressed sequence tags from the antarctic psychrophilic green algae, <i>Pyramimonas gelidicola</i> . <i>Journal of Microbiology and Biotechnology</i> , 2012 , 22, 902-6	3.3	3
19	Development of a species-specific transformation system using the novel endogenous promoter calreticulin from oleaginous microalgae <i>Ettlia</i> sp. <i>Scientific Reports</i> , 2020 , 10, 13947	4.9	3
18	Overproduction of recombinant E. coli malate synthase enhances <i>Chlamydomonas reinhardtii</i> biomass by upregulating heterotrophic metabolism. <i>Bioresource Technology</i> , 2019 , 272, 594-598	11	3
17	Loss of Function in Zeaxanthin Epoxidase of Caused by a Single Amino Acid Mutation within the Substrate-Binding Site. <i>Marine Drugs</i> , 2018 , 16,	6	3
16	Effect of Temperature on Inorganic Carbon Acquisition of <i>Chlamydomonas reinhardtii</i> . <i>Journal of Freshwater Ecology</i> , 2009 , 24, 255-260	1.4	2
15	Chloroplast Acclimation, Photodamage and Repair Reactions of Photosystem-II in the Model Green Alga <i>Dunaliella salina</i> 2009 , 273-299		2
14	Gene Expression Analysis of Zeaxanthin Epoxidase from the Marine Microalga in Response to Light/Dark Cycle and Salinity. <i>Journal of Microbiology and Biotechnology</i> , 2019 , 29, 1453-1459	3.3	2
13	Silicon transporter genes of <i>Fragilariopsis cylindrus</i> (Bacillariophyceae) are differentially expressed during the progression of cell cycle synchronized by Si or light. <i>Algae</i> , 2018 , 33, 191-203	2.4	2
12	Association of Phosphatidylinositol-Specific Phospholipase C with Calcium-Induced Biomineralization in the Coccolithophore. <i>Microorganisms</i> , 2020 , 8,	4.9	2
11	Comparative transcriptome analysis of short-term responses to salt and glycerol hyperosmotic stress in the green alga <i>Dunaliella salina</i> . <i>Algal Research</i> , 2021 , 53, 102147	5	2
10	Macular pigment-enriched oil production from genome-edited microalgae.. <i>Microbial Cell Factories</i> , 2022 , 21, 27	6.4	2
9	The <i>Chlamydomonas</i> bZIP transcription factor BLZ8 confers oxidative stress tolerance by inducing the carbon-concentrating mechanism. <i>Plant Cell</i> , 2021 ,	11.6	2
8	Heterologous Gene Expression System Using the Cold-Inducible Promoter in. <i>Journal of Microbiology and Biotechnology</i> , 2020 , 30, 1777-1784	3.3	1
7	Ubiquitin ligase component LRS1 and transcription factor CrHy5 act as a light switch for photoprotection in <i>Chlamydomonas</i>		1
6	Characterization of ice binding proteins from sea ice algae. <i>Methods in Molecular Biology</i> , 2014 , 1166, 241-53	1.4	1
5	Molecular basis of ice-binding and cryopreservation activities of type III antifreeze proteins. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 897-909	6.8	1
4	Bone Graft Biomineral Complex Coderived from Marine Biocalcification and Biosilicification.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 6046-6055	4.1	0

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