

The *Phaeodactylum* genome reveals the evolutionary history

Nature

456, 239-244

DOI: [10.1038/nature07410](https://doi.org/10.1038/nature07410)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Genes in the glass house. Nature, 2008, 456, 179-181.	13.7	1
2	Genomic Insights into Marine Microalgae. Annual Review of Genetics, 2008, 42, 619-645.	3.2	145
3	Diatom genomes come of age. Genome Biology, 2008, 9, 245.	13.9	25
4	Physiological and Transcriptomic Evidence for a Close Coupling between Chloroplast Ontogeny and Cell Cycle Progression in the Pennate Diatom <i>Seminais robusta</i> . Plant Physiology, 2008, 148, 1394-1411.	2.3	65
5	A Fast Na ⁺ /Ca ²⁺ -Based Action Potential in a Marine Diatom. PLoS ONE, 2009, 4, e4966.	1.1	45
6	Seeing Green and Red in Diatom Genomes. Science, 2009, 324, 1651-1652.	6.0	26
7	Chitin in Diatoms and Its Association with the Cell Wall. Eukaryotic Cell, 2009, 8, 1038-1050.	3.4	155
8	Gene silencing in the marine diatom <i>Phaeodactylum tricornutum</i> . Nucleic Acids Research, 2009, 37, e96-e96.	6.5	264
9	The Presence and Localization of Thioredoxins in Diatoms, Unicellular Algae of Secondary Endosymbiotic Origin. Molecular Plant, 2009, 2, 468-477.	3.9	29
10	Update of the Diatom EST Database: a new tool for digital transcriptomics. Nucleic Acids Research, 2009, 37, D1001-D1005.	6.5	69
11	The Evolution and Function of Carotenoid Hydroxylases in Arabidopsis. Plant and Cell Physiology, 2009, 50, 463-479.	1.5	167
12	Biology of (1,3)- β -Glucans and Related Glucans in Protozoans and Chromists. , 2009, , 353-385.		6
13	Diatom plastids depend on nucleotide import from the cytosol. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3621-3626.	3.3	80
14	The Glass Menagerie: diatoms for novel applications in nanotechnology. Trends in Biotechnology, 2009, 27, 116-127.	4.9	363
15	Potential impact of stress activated retrotransposons on genome evolution in a marine diatom. BMC Genomics, 2009, 10, 624.	1.2	112
16	Release of Volatile Aldehydes by the Brown Algal Kelp <i>Laminaria digitata</i> in Response to Both Biotic and Abiotic Stress. ChemBioChem, 2009, 10, 977-982.	1.3	30
17	Intracellular distribution of the reductive and oxidative pentose phosphate pathways in two diatoms. Journal of Basic Microbiology, 2009, 49, 58-72.	1.8	36
18	When to say when: can excessive drinking explain silicon uptake in diatoms?. BioEssays, 2009, 31, 322-327.	1.2	26

#	ARTICLE	IF	CITATIONS
19	Mitosis in diatoms: rediscovering an old model for cell division. <i>BioEssays</i> , 2009, 31, 874-884.	1.2	48
20	Sizing up the genomic footprint of endosymbiosis. <i>BioEssays</i> , 2009, 31, 1273-1279.	1.2	40
21	Distribution and phylogeny of the blue light receptors aureochromes in eukaryotes. <i>Planta</i> , 2009, 230, 543-552.	1.6	74
22	Sirtuin/Sir2 Phylogeny, Evolutionary Considerations and Structural Conservation. <i>Molecules and Cells</i> , 2009, 28, 407-416.	1.0	190
23	Some Observations of Diatoms Under Turbulence. <i>Silicon</i> , 2009, 1, 79-90.	1.8	21
24	Analytical studies of silica biomineralization: towards an understanding of silica processing by diatoms. <i>Applied Microbiology and Biotechnology</i> , 2009, 84, 607-616.	1.7	79
25	Diatom PtCPF1 is a new cryptochrome/photolyase family member with DNA repair and transcription regulation activity. <i>EMBO Reports</i> , 2009, 10, 655-661.	2.0	168
26	Microbial oceanography in a sea of opportunity. <i>Nature</i> , 2009, 459, 180-184.	13.7	79
27	The life of diatoms in the world's oceans. <i>Nature</i> , 2009, 459, 185-192.	13.7	820
28	PRIMARY CARBON AND NITROGEN METABOLIC GENE EXPRESSION IN THE DIATOM <i>THALASSIOSIRA PSEUDONANA</i> (BACILLARIOPHYCEAE): DIEL PERIODICITY AND EFFECTS OF INORGANIC CARBON AND NITROGEN. <i>Journal of Phycology</i> , 2009, 45, 1083-1092.	1.0	46
29	Plasticity and robustness of pattern formation in the model diatom <i>Phaeodactylum tricornutum</i> . <i>New Phytologist</i> , 2009, 182, 429-442.	3.5	64
30	15-Lipoxygenase metabolism in the marine diatom <i>Pseudo-nitzschia delicatissima</i> . <i>New Phytologist</i> , 2009, 183, 1064-1071.	3.5	61
31	Sterol metabolism in the oomycete <i>Aphanomyces euteiches</i> , a legume root pathogen. <i>New Phytologist</i> , 2009, 183, 291-300.	3.5	42
32	Chemical interactions in diatoms: role of polyunsaturated aldehydes and precursors. <i>New Phytologist</i> , 2009, 184, 794-805.	3.5	73
33	Enhancement of lipid production using biochemical, genetic and transcription factor engineering approaches. <i>Journal of Biotechnology</i> , 2009, 141, 31-41.	1.9	449
34	Gene Transfer and Diversification of Microbial Eukaryotes. <i>Annual Review of Microbiology</i> , 2009, 63, 177-193.	2.9	113
35	Functional and ecological impacts of horizontal gene transfer in eukaryotes. <i>Current Opinion in Genetics and Development</i> , 2009, 19, 613-619.	1.5	130
36	The strain concept in phytoplankton ecology. <i>Harmful Algae</i> , 2009, 8, 746-758.	2.2	146

#	ARTICLE	IF	CITATIONS
37	An Integrated Analysis of Molecular Acclimation to High Light in the Marine Diatom <i>Phaeodactylum tricornutum</i> . PLoS ONE, 2009, 4, e7743.	1.1	219
38	Genome-Wide Transcriptome Analyses of Silicon Metabolism in <i>Phaeodactylum tricornutum</i> Reveal the Multilevel Regulation of Silicic Acid Transporters. PLoS ONE, 2009, 4, e7458.	1.1	101
39	Plastid genomes of two brown algae, <i>Ectocarpus siliculosus</i> and <i>Fucus vesiculosus</i> : further insights on the evolution of red-algal derived plastids. BMC Evolutionary Biology, 2009, 9, 253.	3.2	77
40	Contributions of anoxygenic and oxygenic phototrophy and chemolithotrophy to carbon and oxygen fluxes in aquatic environments. Aquatic Microbial Ecology, 2009, 56, 177-192.	0.9	154
43	FIRST INDUCED PLASTID GENOME MUTATIONS IN AN ALGA WITH SECONDARY PLASTIDS: <i>PSB-A</i> MUTATIONS IN THE DIATOM <i>PHAEODACTYLUM TRICORNUTUM</i> (BACILLARIOPHYCEAE) REVEAL CONSEQUENCES ON THE REGULATION OF PHOTOSYNTHESIS. Journal of Phycology, 2009, 45, 838-846.	1.0	24
44	Barcoding diatoms: Is there a good marker?. Molecular Ecology Resources, 2009, 9, 65-74.	2.2	113
45	Molecular Tools for Discovering the Secrets of Diatoms. BioScience, 2009, 59, 757-765.	2.2	32
46	Mosaic, self-similarity logic and biological attraction principles. Communicative and Integrative Biology, 2009, 2, 552-563.	0.6	40
47	Creation of a pilot metatranscriptome library from eukaryotic plankton of a eutrophic bay (Tampa Bay, FL). Environmental Microbiology, 2009, 11, 1000-1009.	1.0	5
48	Substratum-Associated Microbiota. Water Environment Research, 2009, 81, 2147-2169.	1.3	0
49	Differential antibacterial activities of fusiform and oval morphotypes of <i>Phaeodactylum tricornutum</i> (Bacillariophyceae). Journal of the Marine Biological Association of the United Kingdom, 2010, 90, 769-774.	0.4	43
50	Isolation of chloroplast FtsZ and AtpC, and analysis of protein targeting into the complex chloroplast of the haptophyte <i>Pavlova pinguis</i> . Cytologia, 2010, 75, 203-210.	0.2	4
51	An Outlook on Microalgal Biofuels. Science, 2010, 329, 796-799.	6.0	1,585
52	Complete sequence of the mitochondrial genome of a diatom alga <i>Synedra acus</i> and comparative analysis of diatom mitochondrial genomes. Current Genetics, 2010, 56, 215-223.	0.8	54
53	Dynamic response of the transcriptome of a psychrophilic diatom, <i>Chaetoceros neogracile</i> , to high irradiance. Planta, 2010, 231, 349-360.	1.6	56
54	An Expressed Sequence Tag Analysis of the Intertidal Brown Seaweeds <i>Fucus serratus</i> (L.) and <i>F. vesiculosus</i> (L.) (Heterokontophyta, Phaeophyceae) in Response to Abiotic Stressors. Marine Biotechnology, 2010, 12, 195-213.	1.1	77
55	Diatom survivorship in ballast water during trans-Pacific crossings. Biological Invasions, 2010, 12, 1031-1044.	1.2	56
56	The series, the network, and the tree: changing metaphors of order in nature. Biology and Philosophy, 2010, 25, 475-496.	0.7	57

#	ARTICLE	IF	CITATIONS
57	Enrichment of oxygen heavy isotopes during photosynthesis in phytoplankton. <i>Photosynthesis Research</i> , 2010, 103, 97-103.	1.6	62
58	Phylogenomic analysis of the <i>Chlamydomonas</i> genome unmasks proteins potentially involved in photosynthetic function and regulation. <i>Photosynthesis Research</i> , 2010, 106, 3-17.	1.6	51
59	Carotenoid biosynthesis in diatoms. <i>Photosynthesis Research</i> , 2010, 106, 89-102.	1.6	147
60	Diatom cell division in an environmental context. <i>Current Opinion in Plant Biology</i> , 2010, 13, 623-630.	3.5	36
61	Using the molecular toolbox to compare harmful algal blooms in upwelling systems. <i>Progress in Oceanography</i> , 2010, 85, 108-121.	1.5	32
62	Purification and Characterization of a Glutathione Reductase from <i>Phaeodactylum tricornutum</i> . <i>Protist</i> , 2010, 161, 91-101.	0.6	20
63	Barcoding of Diatoms: Nuclear Encoded ITS Revisited. <i>Protist</i> , 2010, 161, 7-34.	0.6	128
64	Intermediary Metabolism in Protists: a Sequence-based View of Facultative Anaerobic Metabolism in Evolutionarily Diverse Eukaryotes. <i>Protist</i> , 2010, 161, 642-671.	0.6	55
65	Armadillo-repeat protein functions: questions for little creatures. <i>Trends in Cell Biology</i> , 2010, 20, 470-481.	3.6	222
66	Genome size differentiates co-occurring populations of the planktonic diatom <i>Ditylum brightwellii</i> (Bacillariophyta). <i>BMC Evolutionary Biology</i> , 2010, 10, 1.	3.2	340
67	Evolutionary history of the poly(ADP-ribose) polymerase gene family in eukaryotes. <i>BMC Evolutionary Biology</i> , 2010, 10, 308.	3.2	108
68	Whole genome evaluation of horizontal transfers in the pathogenic fungus <i>Aspergillus fumigatus</i> . <i>BMC Genomics</i> , 2010, 11, 171.	1.2	39
69	A versatile palindromic amphipathic repeat coding sequence horizontally distributed among diverse bacterial and eucaryotic microbes. <i>BMC Genomics</i> , 2010, 11, 430.	1.2	15
70	The kinome of <i>Phytophthora infestans</i> reveals oomycete-specific innovations and links to other taxonomic groups. <i>BMC Genomics</i> , 2010, 11, 700.	1.2	36
71	Recent transfer of an iron-regulated gene from the plastid to the nuclear genome in an oceanic diatom adapted to chronic iron limitation. <i>BMC Genomics</i> , 2010, 11, 718.	1.2	67
72	Photoprotection in the diatom <i>Thalassiosira pseudonana</i> : Role of LI818-like proteins in response to high light stress. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1449-1457.	0.5	173
73	Genomics of microalgae, fuel for the future?. <i>Microbial Biotechnology</i> , 2010, 3, 514-522.	2.0	6
74	Myosin diversity in the diatom <i>Phaeodactylum tricornutum</i> . <i>Cytoskeleton</i> , 2010, 67, 142-151.	1.0	4

#	ARTICLE	IF	CITATIONS
75	PHYLOGENETIC PLACEMENT, GENOME SIZE, AND GC CONTENT OF THE LIQUID-PRODUCING GREEN MICROALGA <i>BOTRYOCOCCUS BRAUNII</i> STRAIN BERKELEY (SHOWA) (CHLOROPHYTA). Journal of Phycology, 2010, 46, 534-540.	1.0	37
76	Comparative ecophysiology and genomics of the toxic unicellular alga <i>Fibrocapsa japonica</i> . New Phytologist, 2010, 185, 446-458.	3.5	7
77	Calcium channels in photosynthetic eukaryotes: implications for evolution of calcium-based signalling. New Phytologist, 2010, 187, 23-43.	3.5	153
78	Central and storage carbon metabolism of the brown alga <i>Ectocarpus siliculosus</i> : insights into the origin and evolution of storage carbohydrates in Eukaryotes. New Phytologist, 2010, 188, 67-81.	3.5	172
79	Transcription factor families inferred from genome sequences of photosynthetic stramenopiles. New Phytologist, 2010, 188, 52-66.	3.5	126
80	The cell wall polysaccharide metabolism of the brown alga <i>Ectocarpus siliculosus</i> . Insights into the evolution of extracellular matrix polysaccharides in Eukaryotes. New Phytologist, 2010, 188, 82-97.	3.5	381
81	Diurnal oscillations of metabolite abundances and gene analysis provide new insights into central metabolic processes of the brown alga <i>Ectocarpus siliculosus</i> . New Phytologist, 2010, 188, 98-110.	3.5	82
82	Exclusive Observation of the (13 ² R)-Enantiomer of Chlorophyll _c from a Diatom <i>Chaetoseros calcitrans</i> . Photochemistry and Photobiology, 2010, 86, 311-315.	1.3	12
83	Cell size tradeoffs govern light exploitation strategies in marine phytoplankton. Environmental Microbiology, 2010, 12, 95-104.	1.8	215
84	Prospective of biodiesel production utilizing microalgae as the cell factories: A comprehensive discussion. African Journal of Biotechnology, 2010, 9, 1402-1411.	0.3	79
85	Transcriptome Profiling of a Toxic Dinoflagellate Reveals a Gene-Rich Protist and a Potential Impact on Gene Expression Due to Bacterial Presence. PLoS ONE, 2010, 5, e9688.	1.1	134
86	A Gene in the Process of Endosymbiotic Transfer. PLoS ONE, 2010, 5, e13234.	1.1	18
87	Algal Genes in the Closest Relatives of Animals. Molecular Biology and Evolution, 2010, 27, 2879-2889.	3.5	38
88	Symbiosis-dependent gene expression in coral-dinoflagellate association: cloning and characterization of a P-type H ⁺ -ATPase gene. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 87-95.	1.2	42
89	Hydroxyapatite-Mediated Separation of Double-Stranded DNA, Single-Stranded DNA, and RNA Genomes from Natural Viral Assemblages. Applied and Environmental Microbiology, 2010, 76, 5039-5045.	1.4	63
90	Nonreductive Iron Uptake Mechanism in the Marine Alveolate <i>Chromera velia</i> . Plant Physiology, 2010, 154, 991-1000.	2.3	26
91	Characterization of an Endoplasmic Reticulum-associated Silaffin Kinase from the Diatom <i>Thalassiosira pseudonana</i> . Journal of Biological Chemistry, 2010, 285, 1166-1176.	1.6	19
92	Role of urea in microbial metabolism in aquatic systems: a biochemical and molecular review. Aquatic Microbial Ecology, 2010, 59, 67-88.	0.9	233

#	ARTICLE	IF	CITATIONS
93	Characterization of a trimeric light-harvesting complex in the diatom <i>Phaeodactylum tricornutum</i> built of FcpA and FcpE proteins. <i>Journal of Experimental Botany</i> , 2010, 61, 3079-3087.	2.4	44
94	Eukaryotic and Eubacterial Contributions to the Establishment of Plastid Proteome Estimated by Large-Scale Phylogenetic Analyses. <i>Molecular Biology and Evolution</i> , 2010, 27, 581-590.	3.5	49
95	Genomic characterisation of the ichthyotoxic prymnesiophyte <i>Chrysochromulina polylepis</i> and the expression of polyketide synthase genes in synchronized cultures. <i>European Journal of Phycology</i> , 2010, 45, 215-229.	0.9	21
96	Cyanobacterial Bioreporters as Sensors of Nutrient Availability. , 2010, 118, 165-188.		7
97	The Mixed Lineage Nature of Nitrogen Transport and Assimilation in Marine Eukaryotic Phytoplankton: A Case Study of <i>Micromonas</i> . <i>Molecular Biology and Evolution</i> , 2010, 27, 2268-2283.	3.5	66
98	Auxin Metabolism and Function in the Multicellular Brown Alga <i>Ectocarpus siliculosus</i> . <i>Plant Physiology</i> , 2010, 153, 128-144.	2.3	103
99	Oceanographic and Biogeochemical Insights from Diatom Genomes. <i>Annual Review of Marine Science</i> , 2010, 2, 333-365.	5.1	189
100	The voyage of the microbial eukaryote. <i>Current Opinion in Microbiology</i> , 2010, 13, 652-660.	2.3	19
101	Dynamics of silica cell wall morphogenesis in the diatom <i>Cyclotella cryptica</i> : Substructure formation and the role of microfilaments. <i>Journal of Structural Biology</i> , 2010, 169, 62-74.	1.3	83
102	The give-and-take of DNA: horizontal gene transfer in plants. <i>Trends in Plant Science</i> , 2010, 15, 11-22.	4.3	240
103	Genomic insights into photosynthesis in eukaryotic phytoplankton. <i>Trends in Plant Science</i> , 2010, 15, 565-572.	4.3	44
104	Algal diseases: spotlight on a black box. <i>Trends in Plant Science</i> , 2010, 15, 633-640.	4.3	251
105	Meig1 deficiency causes a severe defect in mouse spermatogenesis. <i>Developmental Biology</i> , 2010, 338, 158-167.	0.9	23
106	Digital expression profiling of novel diatom transcripts provides insight into their biological functions. <i>Genome Biology</i> , 2010, 11, R85.	13.9	97
107	Genetic Engineering of Algae for Enhanced Biofuel Production. <i>Eukaryotic Cell</i> , 2010, 9, 486-501.	3.4	969
108	Reactive silica in natural waters – A review. <i>Desalination and Water Treatment</i> , 2010, 21, 79-86.	1.0	32
110	The Halogenated Metabolism of Brown Algae (Phaeophyta), Its Biological Importance and Its Environmental Significance. <i>Marine Drugs</i> , 2010, 8, 988-1010.	2.2	150
111	Introduction to Marine Genomics. , 2010, , .		6

#	ARTICLE	IF	CITATIONS
112	Genome sequence of the necrotrophic plant pathogen <i>Pythium ultimum</i> reveals original pathogenicity mechanisms and effector repertoire. <i>Genome Biology</i> , 2010, 11, R73.	13.9	391
113	Correction: Diatom genomes come of age. <i>Genome Biology</i> , 2010, 11, 401.	13.9	0
114	Genome-wide analysis of the diatom cell cycle unveils a novel type of cyclins involved in environmental signaling. <i>Genome Biology</i> , 2010, 11, R17.	13.9	91
115	Free cadmium ions released from CdTe-based nanoparticles and their cytotoxicity on <i>Phaeodactylum tricornutum</i> . <i>Metallomics</i> , 2010, 2, 469.	1.0	41
116	Genomes of uncultured eukaryotes: sorting FACS from fiction. <i>Genome Biology</i> , 2011, 12, 117.	13.9	8
117	Computational prediction of microRNAs and their targets from three unicellular algae species with complete genome sequences. <i>Canadian Journal of Microbiology</i> , 2011, 57, 1052-1061.	0.8	7
118	Do Red and Green Make Brown?: Perspectives on Plastid Acquisitions within Chromalveolates. <i>Eukaryotic Cell</i> , 2011, 10, 856-868.	3.4	114
119	Biomimetic and bioinspired silica: recent developments and applications. <i>Chemical Communications</i> , 2011, 47, 7567.	2.2	217
120	Dinoflagellate Genome Evolution. <i>Annual Review of Microbiology</i> , 2011, 65, 369-387.	2.9	171
121	Diatoms: Self assembled silicananostructures, and templates for bio/chemical sensors and biomimetic membranes. <i>Analyst, The</i> , 2011, 136, 42-53.	1.7	114
122	Intron features of key functional genes mediating nitrogen metabolism in marine phytoplankton. <i>Marine Genomics</i> , 2011, 4, 207-213.	0.4	8
123	Improving biofuel production in phototrophic microorganisms with systems biology. <i>Biofuels</i> , 2011, 2, 125-144.	1.4	20
124	Establishing Oleaginous Microalgae Research Models for Consolidated Bioprocessing of Solar Energy. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2011, 128, 69-84.	0.6	21
125	The model marine diatom <i>Thalassiosira pseudonana</i> likely descended from a freshwater ancestor in the genus <i>Cyclotella</i> . <i>BMC Evolutionary Biology</i> , 2011, 11, 125.	3.2	83
126	Monitoring the long-term stability of pelagic morphotypes in the model diatom <i>Phaeodactylum tricornutum</i> . <i>Diatom Research</i> , 2011, 26, 243-253.	0.5	6
127	The Diatom World. <i>Cellular Origin and Life in Extreme Habitats</i> , 2011, , .	0.3	50
128	The Thylakoid Membrane Proteome of Two Marine Diatoms Outlines Both Diatom-Specific and Species-Specific Features of the Photosynthetic Machinery. <i>Journal of Proteome Research</i> , 2011, 10, 5338-5353.	1.8	119
129	Learning to Read the Oceans. <i>Advances in Marine Biology</i> , 2011, 60, 1-39.	0.7	19

#	ARTICLE	IF	CITATIONS
130	Genome sequence of the stramenopile Blastocystis, a human anaerobic parasite. <i>Genome Biology</i> , 2011, 12, R29.	13.9	159
131	The making of a photosynthetic animal. <i>Journal of Experimental Biology</i> , 2011, 214, 303-311.	0.8	145
132	Gene biomarkers in diatom <i>Thalassiosira pseudonana</i> exposed to polycyclic aromatic hydrocarbons from contaminated marine surface sediments. <i>Aquatic Toxicology</i> , 2011, 101, 244-253.	1.9	28
133	Complex repeat structures and novel features in the mitochondrial genomes of the diatoms <i>Phaeodactylum tricornutum</i> and <i>Thalassiosira pseudonana</i> . <i>Gene</i> , 2011, 476, 20-26.	1.0	85
134	<i>qPCR</i> -Based Quantitative Molecular Assay To Identify Saxitoxin-Producing Harmful Algal Blooms in Marine Waters. <i>Applied and Environmental Microbiology</i> , 2011, 77, 7050-7057.	1.4	104
135	Development of molecular tools for the detection of freshwater diatoms. <i>Journal of Microbiological Methods</i> , 2011, 84, 33-40.	0.7	18
136	Metabolic engineering of algae for fourth generation biofuels production. <i>Energy and Environmental Science</i> , 2011, 4, 2451.	15.6	286
137	Perspectives on future directions. , 0, , 609-624.		1
138	Multiple Independent Fusions of Glucose-6-Phosphate Dehydrogenase with Enzymes in the Pentose Phosphate Pathway. <i>PLoS ONE</i> , 2011, 6, e22269.	1.1	26
139	Red and Problematic Green Phylogenetic Signals among Thousands of Nuclear Genes from the Photosynthetic and Apicomplexa-Related <i>Chromera velia</i> . <i>Genome Biology and Evolution</i> , 2011, 3, 1220-1230.	1.1	75
140	Stemming Epigenetics in Marine Stramenopiles. <i>Current Genomics</i> , 2011, 12, 357-370.	0.7	27
141	The Relevance of Marine Chemical Ecology to Plankton and Ecosystem Function: An Emerging Field. <i>Marine Drugs</i> , 2011, 9, 1625-1648.	2.2	106
142	Microalgal classes and their signature pigments. , 2011, , 3-77.		99
143	A eukaryotic LOV χ histidine kinase with circadian clock function in the picoalga <i>Ostreococcus</i> . <i>Plant Journal</i> , 2011, 65, 578-588.	2.8	55
144	Decoding algal genomes: tracing back the history of photosynthetic life on Earth. <i>Plant Journal</i> , 2011, 66, 45-57.	2.8	125
145	Alkaline Phosphatase Gene Sequence And Transcriptional Regulation By Phosphate Limitation In <i>Amphidinium Carterae</i> (Dinophyceae). <i>Journal of Phycology</i> , 2011, 47, 1110-1120.	1.0	56
146	NUCLEAR MONOPLIIDY AND ASEYUAL PROPAGATION OF <i>NANNOCHLOROPSIS OCEANICA</i> (EUSTIGMATOPHYCEAE) AS REVEALED BY ITS GENOME SEQUENCE. <i>Journal of Phycology</i> , 2011, 47, 1425-1432.	1.0	63
147	INFLUENCE OF DIFFERENT LIGHT INTENSITIES AND DIFFERENT IRON NUTRITION ON THE PHOTOSYNTHEIC APPARATUS IN THE DIATOM <i>CYCLOTELLA MENEGHINIANA</i> (BACILLARIOPHYCEAE). <i>Journal of Phycology</i> , 2011, 47, 1266-1273.	1.0	32

#	ARTICLE	IF	CITATIONS
148	Cloning and molecular characterization of a novel acyl-CoA:diacylglycerol acyltransferase-like gene (<i>PtDGAT1</i>) from the diatom <i>Phaeodactylum tricornutum</i>. FEBS Journal, 2011, 278, 3651-3666.	2.2	92
149	Evolution and metabolic significance of the urea cycle in photosynthetic diatoms. Nature, 2011, 473, 203-207.	13.7	453
150	Blue and Red Light-Induced Germination of Resting Spores in the Red-Tide Diatom <i>Leptocylindrus danicus</i>. Photochemistry and Photobiology, 2011, 87, 590-597.	1.3	15
151	Microalgae and biofuels: A promising partnership?. Trends in Biotechnology, 2011, 29, 542-549.	4.9	135
152	Identification of a Mastigoneme Protein from Phytophthora nicotianae. Protist, 2011, 162, 100-114.	0.6	7
153	Physiological and Molecular Evidence that Environmental Changes Elicit Morphological Interconversion in the Model Diatom Phaeodactylum tricornutum. Protist, 2011, 162, 462-481.	0.6	84
154	Influence of temperature and elevated carbon dioxide on the production of dimethylsulfoniopropionate and glycine betaine by marine phytoplankton. Marine Environmental Research, 2011, 73, 62-9.	1.1	34
155	The structure and function of eukaryotic photosystem I. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 864-877.	0.5	119
156	Algal chemodiversity and bioactivity: Sources of natural variability and implications for commercial application. Biotechnology Advances, 2011, 29, 483-501.	6.0	463
157	Genome-wide functional annotation and structural verification of metabolic ORFeome of Chlamydomonas reinhardtii. BMC Genomics, 2011, 12, S4.	1.2	17
158	Classical Breeding in Diatoms: Scientific Background and Practical Perspectives. Cellular Origin and Life in Extreme Habitats, 2011, , 167-194.	0.3	9
159	A protocol for a single-cell PCR of diatoms from fixed samples: method validation using Ditylum brightwellii(T. West) Grunow. Diatom Research, 2011, 26, 43-49.	0.5	29
160	A Review of the Evolution of the Diatoms from the Origin of the Lineage to Their Populations. Cellular Origin and Life in Extreme Habitats, 2011, , 93-118.	0.3	18
161	Experimental Examination of EFL and MATX Eukaryotic Horizontal Gene Transfers: Coexistence of Mutually Exclusive Transcripts Predates Functional Rescue. Molecular Biology and Evolution, 2011, 28, 2371-2378.	3.5	22
162	Evolution and Diversity of Plant Cell Walls: From Algae to Flowering Plants. Annual Review of Plant Biology, 2011, 62, 567-590.	8.6	613
163	Analysis of raphidophyte assimilatory nitrate reductase reveals unique domain architecture incorporating a 2/2 hemoglobin. Plant Molecular Biology, 2011, 77, 565-575.	2.0	29
164	After the primary endosymbiosis: an update on the chromalveolate hypothesis and the origins of algae with Chl c. Photosynthesis Research, 2011, 107, 103-115.	1.6	71
165	High-throughput pyrosequencing of the chloroplast genome of a highly neutral-lipid-producing marine pennate diatom, Fistulifera sp. strain JPCC DA0580. Photosynthesis Research, 2011, 109, 223-229.	1.6	36

#	ARTICLE	IF	CITATIONS
166	Recent progresses on the genetic basis of the regulation of CO ₂ acquisition systems in response to CO ₂ concentration. <i>Photosynthesis Research</i> , 2011, 109, 191-203.	1.6	58
167	Localization of putative carbonic anhydrases in two marine diatoms, <i>Phaeodactylum tricornutum</i> and <i>Thalassiosira pseudonana</i> . <i>Photosynthesis Research</i> , 2011, 109, 205-221.	1.6	146
168	The carbonic anhydrase isoforms of <i>Chlamydomonas reinhardtii</i> : intracellular location, expression, and physiological roles. <i>Photosynthesis Research</i> , 2011, 109, 133-149.	1.6	188
169	Barcoding diatoms: evaluation of the V4 subregion on the 18S rRNA gene, including new primers and protocols. <i>Organisms Diversity and Evolution</i> , 2011, 11, 173-192.	0.7	229
170	A Rooted Net of Life. <i>Biology Direct</i> , 2011, 6, 45.	1.9	40
171	Evolution of light-harvesting complex proteins from Chl c-containing algae. <i>BMC Evolutionary Biology</i> , 2011, 11, 101.	3.2	44
172	Structural and evolutionary divergence of eukaryotic protein kinases in Apicomplexa. <i>BMC Evolutionary Biology</i> , 2011, 11, 321.	3.2	83
173	Proteomic analysis of the marine diatom <i>Thalassiosira pseudonana</i> upon exposure to benzo(a)pyrene. <i>BMC Genomics</i> , 2011, 12, 159.	1.2	53
174	Identification and characterization of microRNAs from <i>Phaeodactylum tricornutum</i> by high-throughput sequencing and bioinformatics analysis. <i>BMC Genomics</i> , 2011, 12, 337.	1.2	55
175	Effective gene collection from the metatranscriptome of marine microorganisms. <i>BMC Genomics</i> , 2011, 12, S15.	1.2	10
176	Overexpression of an exogenous phytoene synthase gene in the unicellular alga <i>Chlamydomonas reinhardtii</i> leads to an increase in the content of carotenoids. <i>Biotechnology Progress</i> , 2011, 27, 54-60.	1.3	99
177	Isolation and characterization of a gene encoding a S-adenosyl-L-methionine-dependent halide/thiol methyltransferase (HTMT) from the marine diatom <i>Phaeodactylum tricornutum</i> : Biogenic mechanism of CH ₃ I emissions in oceans. <i>Phytochemistry</i> , 2011, 72, 337-343.	1.4	23
178	Genetic engineering of fatty acid chain length in <i>Phaeodactylum tricornutum</i> . <i>Metabolic Engineering</i> , 2011, 13, 89-95.	3.6	233
179	Algal models in plant biology. <i>Journal of Experimental Botany</i> , 2011, 62, 2425-2430.	2.4	29
180	Evolution of Patchily Distributed Proteins Shared between Eukaryotes and Prokaryotes: <i>Dictyostelium</i> as a Case Study. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2011, 20, 83-95.	1.0	18
181	Evolution of Antifreeze Protein Genes in the Diatom Genus <i>Fragilariopsis</i> : Evidence for Horizontal Gene Transfer, Gene Duplication and Episodic Diversifying Selection. <i>Evolutionary Bioinformatics</i> , 2011, 7, EBO.S8321.	0.6	31
182	RNA-Mediated Silencing in Algae: Biological Roles and Tools for Analysis of Gene Function. <i>Eukaryotic Cell</i> , 2011, 10, 1164-1172.	3.4	122
183	Diatoms respire nitrate to survive dark and anoxic conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5649-5654.	3.3	177

#	ARTICLE	IF	CITATIONS
184	Niche of harmful alga <i>Aureococcus anophagefferens</i> revealed through ecogenomics. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4352-4357.	3.3	256
185	Temperature and salinity tolerances of geographically separated <i>Phaeodactylum tricorutum</i> B&Arlin strains: maximum quantum yield of primary photochemistry, pigmentation, proline content and growth. Botanica Marina, 2011, 54, .	0.6	20
186	Identification of the UMP Synthase Gene by Establishment of Uracil Auxotrophic Mutants and the Phenotypic Complementation System in the Marine Diatom <i>Phaeodactylum tricorutum</i> . Plant Physiology, 2011, 156, 78-89.	2.3	29
187	The GreenCut2 Resource, a Phylogenomically Derived Inventory of Proteins Specific to the Plant Lineage. Journal of Biological Chemistry, 2011, 286, 21427-21439.	1.6	113
188	N-Glycans of <i>Phaeodactylum tricorutum</i> Diatom and Functional Characterization of Its N-Acetylglucosaminyltransferase I Enzyme. Journal of Biological Chemistry, 2011, 286, 6152-6164.	1.6	67
189	Impact of chlororespiration on non-photochemical quenching of chlorophyll fluorescence and on the regulation of the diadinoxanthin cycle in the diatom <i>Thalassiosira pseudonana</i> . Journal of Experimental Botany, 2011, 62, 509-519.	2.4	41
190	Insights into the Evolution of Vitamin B12 Auxotrophy from Sequenced Algal Genomes. Molecular Biology and Evolution, 2011, 28, 2921-2933.	3.5	246
191	Gene Gain and Loss during Evolution of Obligate Parasitism in the White Rust Pathogen of <i>Arabidopsis thaliana</i> . PLoS Biology, 2011, 9, e1001094.	2.6	271
192	Independent HHsearch, Needleman-Wunsch-Based, and Motif Analyses Reveal the Overall Hierarchy for Most of the G Protein-Coupled Receptor Families. Molecular Biology and Evolution, 2011, 28, 2471-2480.	3.5	145
193	Update on Chloroplast Research: New Tools, New Topics, and New Trends. Molecular Plant, 2011, 4, 1-16.	3.9	50
194	Horizontal Transfer, Not Duplication, Drives the Expansion of Protein Families in Prokaryotes. PLoS Genetics, 2011, 7, e1001284.	1.5	426
195	Genome, Functional Gene Annotation, and Nuclear Transformation of the Heterokont Oleaginous Alga <i>Nannochloropsis oceanica</i> CCMP1779. PLoS Genetics, 2012, 8, e1003064.	1.5	376
196	Evolution and Functional Diversification of Fructose Bisphosphate Aldolase Genes in Photosynthetic Marine Diatoms. Molecular Biology and Evolution, 2012, 29, 367-379.	3.5	68
197	Dynamics and Innovations within Oomycete Genomes: Insights into Biology, Pathology, and Evolution. Eukaryotic Cell, 2012, 11, 1304-1312.	3.4	78
198	Exploring the molecular basis of responses to light in marine diatoms. Journal of Experimental Botany, 2012, 63, 1575-1591.	2.4	173
199	Biosynthesis of fucoxanthin and diadinoxanthin and function of initial pathway genes in <i>Phaeodactylum tricorutum</i> . Journal of Experimental Botany, 2012, 63, 5607-5612.	2.4	101
200	Expression and Localization of Two SecA Homologs in the Unicellular Red Alga <i>Cyanidioschyzon merolae</i> . Bioscience, Biotechnology and Biochemistry, 2012, 76, 417-422.	0.6	2
201	Re-evaluating the Green versus Red Signal in Eukaryotes with Secondary Plastid of Red Algal Origin. Genome Biology and Evolution, 2012, 4, 626-635.	1.1	64

#	ARTICLE	IF	CITATIONS
202	Influence of nutrients and currents on the genomic composition of microbes across an upwelling mosaic. <i>ISME Journal</i> , 2012, 6, 1403-1414.	4.4	120
203	Chloroplast-mitochondria cross-talk in diatoms. <i>Journal of Experimental Botany</i> , 2012, 63, 1543-1557.	2.4	108
204	Dynamic Evolution of Telomeric Sequences in the Green Algal Order Chlamydomonadales. <i>Genome Biology and Evolution</i> , 2012, 4, 248-264.	1.1	50
205	Biological Constraints on the Production of Microalgal-Based Biofuels. <i>Cellular Origin and Life in Extreme Habitats</i> , 2012, , 101-129.	0.3	5
206	The Genome Portal of the Department of Energy Joint Genome Institute. <i>Nucleic Acids Research</i> , 2012, 40, D26-D32.	6.5	439
207	Properties of photosystem I antenna protein complexes of the diatom <i>Cyclotella meneghiniana</i> . <i>Journal of Experimental Botany</i> , 2012, 63, 3673-3681.	2.4	33
208	3 <i>Phaeodactylum tricornutum</i> polymorphism : an overview. , 2012, , 43-80.		3
209	High Sequence Variability, Diverse Subcellular Localizations, and Ecological Implications of Alkaline Phosphatase in Dinoflagellates and Other Eukaryotic Phytoplankton. <i>Frontiers in Microbiology</i> , 2012, 3, 235.	1.5	39
210	Iron bioavailability in the Southern Ocean. , 2012, , 10-73.		33
211	Analysis of Light-Dependent Cell Morphology and an Accumulation Response in <i>Ochromonas danica</i> . <i>Cytologia</i> , 2012, 77, 465-473.	0.2	4
212	Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. <i>Nature</i> , 2012, 492, 59-65.	13.7	377
213	The Response of Diatom Central Carbon Metabolism to Nitrogen Starvation Is Different from That of Green Algae and Higher Plants. <i>Plant Physiology</i> , 2012, 158, 299-312.	2.3	318
214	A Comparative Study of Iron Uptake Mechanisms in Marine Microalgae: Iron Binding at the Cell Surface Is a Critical Step. <i>Plant Physiology</i> , 2012, 160, 2271-2284.	2.3	76
215	Analysis of Porphyra Membrane Transporters Demonstrates Gene Transfer among Photosynthetic Eukaryotes and Numerous Sodium-Coupled Transport Systems. <i>Plant Physiology</i> , 2012, 158, 2001-2012.	2.3	35
216	Genome evolution in filamentous plant pathogens: why bigger can be better. <i>Nature Reviews Microbiology</i> , 2012, 10, 417-430.	13.6	735
217	Genome and low-iron response of an oceanic diatom adapted to chronic iron limitation. <i>Genome Biology</i> , 2012, 13, R66.	13.9	224
218	Gene functionalities and genome structure in <i>Bathycoccus prasinos</i> reflect cellular specializations at the base of the green lineage. <i>Genome Biology</i> , 2012, 13, R74.	13.9	143
219	Molecular characterization of microalgae used in aquaculture with biotechnology potential. <i>Aquaculture International</i> , 2012, 20, 847-857.	1.1	15

#	ARTICLE	IF	CITATIONS
220	Harvesting the microalgae <i>Phaeodactylum tricornutum</i> with polyaluminum chloride, aluminium sulphate, chitosan and alkalinity-induced flocculation. <i>Journal of Applied Phycology</i> , 2012, 24, 1067-1080.	1.5	169
221	Treatment of <i>Phaeodactylum tricornutum</i> cells with papain facilitates lipid extraction. <i>Journal of Biotechnology</i> , 2012, 162, 40-49.	1.9	28
222	Proteases are associated with a minor fucoxanthin chlorophyll a/c-binding protein from the diatom, <i>Chaetoceros gracilis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 2110-2117.	0.5	33
223	Draft genome sequence and genetic transformation of the oleaginous alga <i>Nannochloropsis gaditana</i> . <i>Nature Communications</i> , 2012, 3, 686.	5.8	438
224	Interactions between Diatoms and Bacteria. <i>Microbiology and Molecular Biology Reviews</i> , 2012, 76, 667-684.	2.9	817
225	Controlling anatase coating of diatom frustules by varying the binding layer. <i>CrystEngComm</i> , 2012, 14, 3446.	1.3	13
226	Perspectives on metabolic engineering for increased lipid contents in microalgae. <i>Biofuels</i> , 2012, 3, 71-86.	1.4	57
227	Leveraging metabolomics for functional investigations in sequenced marine diatoms. <i>Trends in Plant Science</i> , 2012, 17, 395-403.	4.3	23
228	The Chemistry of Marine Algae and Cyanobacteria. , 2012, , 55-152.		13
229	Antipredatory Defensive Role of Planktonic Marine Natural Products. , 2012, , 711-748.		6
230	Dinoflagellate tandem array gene transcripts are highly conserved and not polycistronic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15793-15798.	3.3	73
231	The ins and outs of algal metal transport. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012, 1823, 1531-1552.	1.9	173
232	Alkaline phosphatase gene sequence characteristics and transcriptional regulation by phosphate limitation in <i>Karenia brevis</i> (Dinophyceae). <i>Harmful Algae</i> , 2012, 17, 14-24.	2.2	78
233	Distribution of the SELMA Translocon in Secondary Plastids of Red Algal Origin and Predicted Uncoupling of Ubiquitin-Dependent Translocation from Degradation. <i>Eukaryotic Cell</i> , 2012, 11, 1472-1481.	3.4	58
234	Protocol: Chromatin immunoprecipitation (ChIP) methodology to investigate histone modifications in two model diatom species. <i>Plant Methods</i> , 2012, 8, 48.	1.9	81
235	Potential role of multiple carbon fixation pathways during lipid accumulation in <i>Phaeodactylum tricornutum</i> . <i>Biotechnology for Biofuels</i> , 2012, 5, 40.	6.2	185
236	The <i>Ectocarpus</i> Genome and Brown Algal Genomics. <i>Advances in Botanical Research</i> , 2012, 64, 141-184.	0.5	18
237	Microalgae, Functional Genomics and Biotechnology. <i>Advances in Botanical Research</i> , 2012, 64, 285-341.	0.5	57

#	ARTICLE	IF	CITATIONS
238	Genomics and Genetics of Diatoms. <i>Advances in Botanical Research</i> , 2012, 64, 245-284.	0.5	15
239	A comprehensive cDNA library of light- and temperature-stressed <i>Saccharina latissima</i> (Phaeophyceae). <i>European Journal of Phycology</i> , 2012, 47, 83-94.	0.9	22
241	The place of diatoms in the biofuels industry. <i>Biofuels</i> , 2012, 3, 221-240.	1.4	229
242	The Evolution of Algae by Secondary and Tertiary Endosymbiosis. <i>Advances in Botanical Research</i> , 2012, 64, 87-118.	0.5	39
243	Mitochondrial Genomes of Algae. <i>Advances in Photosynthesis and Respiration</i> , 2012, , 127-157.	1.0	13
244	Frustule-related gene transcription and the influence of diatom community composition on silica precipitation in an iron-limited environment. <i>Limnology and Oceanography</i> , 2012, 57, 1619-1633.	1.6	37
245	The Photosynthetic World. <i>Advances in Photosynthesis and Respiration</i> , 2012, , 3-32.	1.0	8
246	Comparative analysis of diatom genomes reveals substantial differences in the organization of carbon partitioning pathways. <i>Algal Research</i> , 2012, 1, 2-16.	2.4	104
247	The Uptake of CO ₂ by Cyanobacteria and Microalgae. <i>Advances in Photosynthesis and Respiration</i> , 2012, , 625-650.	1.0	14
248	How to Breed Diatoms: Examination of Two Species with Contrasting Reproductive Biology. <i>Cellular Origin and Life in Extreme Habitats</i> , 2012, , 323-340.	0.3	8
249	First evidence for the existence of pennate diatom viruses. <i>ISME Journal</i> , 2012, 6, 1445-1448.	4.4	40
250	Dynamics of Lipid Biosynthesis and Redistribution in the Marine Diatom <i>Phaeodactylum tricornutum</i> Under Nitrate Deprivation. <i>Bioenergy Research</i> , 2012, 5, 876-885.	2.2	31
251	The Science of Algal Fuels. <i>Cellular Origin and Life in Extreme Habitats</i> , 2012, , .	0.3	19
253	Effects of Silver Nanoparticles in Diatom <i>Thalassiosira pseudonana</i> and Cyanobacterium <i>Synechococcus</i> sp.. <i>Environmental Science & Technology</i> , 2012, 46, 11336-11344.	4.6	82
254	From Bacterial to Microbial Ecosystems (Metagenomics). <i>Methods in Molecular Biology</i> , 2012, 804, 35-55.	0.4	21
255	Evidence of Coexistence of C ₃ and C ₄ Photosynthetic Pathways in a Green-Tide-Forming Alga, <i>Ulva prolifera</i> . <i>PLoS ONE</i> , 2012, 7, e37438.	1.1	73
256	Promoter Trapping in Microalgae Using the Antibiotic Paromomycin as Selective Agent. <i>Marine Drugs</i> , 2012, 10, 2749-2765.	2.2	15
257	Iron Utilization in Marine Cyanobacteria and Eukaryotic Algae. <i>Frontiers in Microbiology</i> , 2012, 3, 43.	1.5	130

#	ARTICLE	IF	CITATIONS
258	Redox Regulation of Carbonic Anhydrases via Thioredoxin in Chloroplast of the Marine Diatom <i>Phaeodactylum tricornutum</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 20689-20700.	1.6	37
259	Understanding Photosynthetic Electron Transport Using <i>Chlamydomonas</i> : The Path from Classical Genetics to High Throughput Genomics. <i>Advances in Photosynthesis and Respiration</i> , 2012, , 139-176.	1.0	1
260	Whole-genome expression analysis reveals a role for death-related genes in stress acclimation of the diatom <i>Thalassiosira pseudonana</i> . <i>Environmental Microbiology</i> , 2012, 14, 67-81.	1.8	80
261	Phosphate transporters in marine phytoplankton and their viruses: cross-domain commonalities in viral-host gene exchanges. <i>Environmental Microbiology</i> , 2012, 14, 162-176.	1.8	70
262	Microalgae in the postgenomic era: a blooming reservoir for new natural products. <i>FEMS Microbiology Reviews</i> , 2012, 36, 761-785.	3.9	131
263	Overcoming biological constraints to enable the exploitation of microalgae for biofuels. <i>Bioresource Technology</i> , 2012, 109, 245-251.	4.8	137
264	MOLECULAR EVOLUTION OF GLUTAMINE SYNTHETASE II AND III IN THE CHROMALVEOLATES ¹ . <i>Journal of Phycology</i> , 2012, 48, 768-783.	1.0	4
265	ANALYSIS OF <i>ALEXANDRIUM TAMARENSE</i> (DINOPHYCEAE) GENES REVEALS THE COMPLEX EVOLUTIONARY HISTORY OF A MICROBIAL EUKARYOTE ¹ . <i>Journal of Phycology</i> , 2012, 48, 1130-1142.	1.0	29
266	Selection, breeding and engineering of microalgae for bioenergy and biofuel production. <i>Trends in Biotechnology</i> , 2012, 30, 198-205.	4.9	266
267	Effect of starvation on the distribution of positional isomers and enantiomers of triacylglycerol in the diatom <i>Phaeodactylum tricornutum</i> . <i>Phytochemistry</i> , 2012, 80, 17-27.	1.4	28
268	Plastidic Phosphoglycerate Kinase from <i>Phaeodactylum tricornutum</i> : On the Critical Role of Cysteine Residues for the Enzyme Function. <i>Protist</i> , 2012, 163, 188-203.	0.6	22
269	Analysis of Expressed Sequence Tags from the Marine Microalga <i>Pseudochattonella farcimen</i> (Dictyochophyceae). <i>Protist</i> , 2012, 163, 143-161.	0.6	14
270	Coupled Effects of Light and Nitrogen Source on the Urea Cycle and Nitrogen Metabolism over a Diel Cycle in the Marine Diatom <i>Thalassiosira pseudonana</i> . <i>Protist</i> , 2012, 163, 232-251.	0.6	72
271	Effector identification in the lettuce downy mildew <i>Bremia lactucae</i> by massively parallel transcriptome sequencing. <i>Molecular Plant Pathology</i> , 2012, 13, 719-731.	2.0	52
272	The metabolic blueprint of <i>Phaeodactylum tricornutum</i> reveals a eukaryotic Entner-Doudoroff glycolytic pathway. <i>Plant Journal</i> , 2012, 70, 1004-1014.	2.8	124
273	What can we learn from genomics approaches in marine ecology? From sequences to ecosystems biology!. <i>Marine Ecology</i> , 2012, 33, 131-148.	0.4	11
274	Isolation of mitochondrial and plastid <i>ftsZ</i> genes and analysis of the organelle targeting sequence in the diatom <i>Chaetoceros neogracile</i> (Diatoms, Bacillariophyceae). <i>Phycological Research</i> , 2012, 60, 123-136.	0.8	4
275	Bioprospecting microalgae as potential sources of "Green Energy" challenges and perspectives (Review). <i>Applied Biochemistry and Microbiology</i> , 2012, 48, 109-125.	0.3	39

#	ARTICLE	IF	CITATIONS
276	Molecular dynamics of the diatom thylakoid membrane under different light conditions. <i>Photosynthesis Research</i> , 2012, 111, 245-257.	1.6	142
277	Molecular and cellular mechanisms of neutral lipid accumulation in diatom following nitrogen deprivation. <i>Biotechnology for Biofuels</i> , 2013, 6, 67.	6.2	296
278	The PRR family of transcriptional regulators reflects the complexity and evolution of plant circadian clocks. <i>Current Opinion in Plant Biology</i> , 2013, 16, 621-629.	3.5	99
279	Diatom assemblages promote ice formation in large lakes. <i>ISME Journal</i> , 2013, 7, 1632-1640.	4.4	42
280	Unraveling microalgal molecular interactions using evolutionary and structural bioinformatics. <i>Gene</i> , 2013, 528, 109-119.	1.0	7
281	Cadmium, Copper, Sodium and Zinc Effects on Diatoms: from Heaven to Hell – a Review. <i>Cryptogamie, Algologie</i> , 2013, 34, 185-225.	0.3	63
282	Normalization genes for mRNA expression in the marine diatom <i>Ditylum brightwellii</i> following exposure to thermal and toxic chemical stresses. <i>Journal of Applied Phycology</i> , 2013, 25, 1101-1109.	1.5	12
283	Parallel re-modeling of EF-1 β function: divergent EF-1 β genes co-occur with EFL genes in diverse distantly related eukaryotes. <i>BMC Evolutionary Biology</i> , 2013, 13, 131.	3.2	11
284	Identification of G protein-coupled receptor signaling pathway proteins in marine diatoms using comparative genomics. <i>BMC Genomics</i> , 2013, 14, 503.	1.2	20
285	Evolutionary origins, molecular cloning and expression of carotenoid hydroxylases in eukaryotic photosynthetic algae. <i>BMC Genomics</i> , 2013, 14, 457.	1.2	31
287	De Novo Sequencing and Global Transcriptome Analysis of <i>Nannochloropsis</i> sp. (Eustigmatophyceae) Following Nitrogen Starvation. <i>Bioenergy Research</i> , 2013, 6, 494-505.	2.2	37
288	Lateral Gene Transfer and the Evolution of Photosynthesis in Eukaryotes. , 2013, , 15-53.		0
289	Sustainable production of biologically active molecules of marine based origin. <i>New Biotechnology</i> , 2013, 30, 839-850.	2.4	92
290	Isolation and characterization of an enoyl-acyl carrier protein reductase gene from microalga <i>Isochrysis galbana</i> . <i>Chinese Journal of Oceanology and Limnology</i> , 2013, 31, 398-406.	0.7	1
291	Identification and bioinformatics analysis of pseudogenes from whole genome sequence of <i>Phaeodactylum tricornutum</i> . <i>Science Bulletin</i> , 2013, 58, 1010-1017.	1.7	3
292	Studies of biouptake and transformation of mercury by a typical unicellular diatom <i>Phaeodactylum tricornutum</i> . <i>Science Bulletin</i> , 2013, 58, 256-265.	1.7	23
293	EXPERIMENTAL EVOLUTION MEETS MARINE PHYTOPLANKTON. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 1849-1859.	1.1	122
294	Two types of fucoxanthin-chlorophyll-binding proteins I tightly bound to the photosystem I core complex in marine centric diatoms. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 529-539.	0.5	37

#	ARTICLE	IF	CITATIONS
295	Establishment of a Genetic Transformation System for the Marine Pennate Diatom <i>Fistulifera</i> sp. Strain JPCC DA0580â€”A High Triglyceride Producer. <i>Marine Biotechnology</i> , 2013, 15, 48-55.	1.1	71
296	Insights into the role of DNA methylation in diatoms by genome-wide profiling in <i>Phaeodactylum tricornutum</i> . <i>Nature Communications</i> , 2013, 4, 2091.	5.8	113
297	Chemical Diversity as a Function of Temperature in Six Northern Diatom Species. <i>Marine Drugs</i> , 2013, 11, 4232-4245.	2.2	21
298	Comparison of oligomeric states and polypeptide compositions of fucoxanthin chlorophyll a/c-binding protein complexes among various diatom species. <i>Photosynthesis Research</i> , 2013, 117, 281-288.	1.6	65
299	Biosynthetic Pathway and Health Benefits of Fucoxanthin, an Algae-Specific Xanthophyll in Brown Seaweeds. <i>International Journal of Molecular Sciences</i> , 2013, 14, 13763-13781.	1.8	177
300	Organisms for Biofuel Production: Natural Bioresources and Methodologies for Improving Their Biosynthetic Potentials. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2013, 147, 185-224.	0.6	5
301	Regulatory branch points affecting protein and lipid biosynthesis in the diatom <i>Phaeodactylum tricornutum</i> . <i>Biomass and Bioenergy</i> , 2013, 59, 306-315.	2.9	78
302	Photosystem I Reduction in Diatoms: As Complex as the Green Lineage Systems but Less Efficient. <i>Biochemistry</i> , 2013, 52, 8687-8695.	1.2	9
303	A novel type of light-harvesting antenna protein of red algal origin in algae with secondary plastids. <i>BMC Evolutionary Biology</i> , 2013, 13, 159.	3.2	32
304	Assembly of eukaryotic algal chromosomes in yeast. <i>Journal of Biological Engineering</i> , 2013, 7, 30.	2.0	57
305	Experimental evidence and isotopomer analysis of mixotrophic glucose metabolism in the marine diatom <i>Phaeodactylum tricornutum</i> . <i>Microbial Cell Factories</i> , 2013, 12, 109.	1.9	47
306	Recent Developments in Blastocystis Research. <i>Advances in Parasitology</i> , 2013, 82, 1-32.	1.4	228
307	Agrigenomics for Microalgal Biofuel Production: An Overview of Various Bioinformatics Resources and Recent Studies to Link OMICS to Bioenergy and Bioeconomy. <i>OMICS A Journal of Integrative Biology</i> , 2013, 17, 537-549.	1.0	41
308	Plasticity in the proteome of <i>Emiliana huxleyi</i> CCMP 1516 to extremes of light is highly targeted. <i>New Phytologist</i> , 2013, 200, 61-73.	3.5	44
309	Monitoring the Single-Cell Stress Response of the Diatom <i>Thalassiosira pseudonana</i> by Quantitative Real-Time Reverse Transcription-PCR. <i>Applied and Environmental Microbiology</i> , 2013, 79, 1850-1858.	1.4	23
310	High Light Acclimation in the Secondary Plastids Containing Diatom <i>Phaeodactylum tricornutum</i> is Triggered by the Redox State of the Plastoquinone Pool. <i>Plant Physiology</i> , 2013, 161, 853-865.	2.3	119
311	Fatty acid profiling of tropical marine macroalgae: An analysis from chemotaxonomic and nutritional perspectives. <i>Phytochemistry</i> , 2013, 86, 44-56.	1.4	139
312	The role of C ₄ metabolism in the marine diatom <i>Phaeodactylum tricornutum</i> . <i>New Phytologist</i> , 2013, 197, 177-185.	3.5	83

#	ARTICLE	IF	CITATIONS
313	Evolution of Saxitoxin Synthesis in Cyanobacteria and Dinoflagellates. <i>Molecular Biology and Evolution</i> , 2013, 30, 70-78.	3.5	152
314	Cadmium chelation by frustulins: a novel metal tolerance mechanism in <i>Nitzschia palea</i> (K&A14tzing) W. Smith. <i>Ecotoxicology</i> , 2013, 22, 166-173.	1.1	32
315	Ecological and evolutionary genomics of marine photosynthetic organisms. <i>Molecular Ecology</i> , 2013, 22, 867-907.	2.0	29
316	Phylogenetic viewpoints on regulation of light harvesting and electron transport in eukaryotic photosynthetic organisms. <i>Planta</i> , 2013, 237, 399-412.	1.6	32
317	Molecular cloning and sequence analysis of methionine adenosyltransferase from the economic seaweed <i>Undaria pinnatifida</i> . <i>Journal of Applied Phycology</i> , 2013, 25, 81-87.	1.5	6
318	A family of diatom-like silicon transporters in the siliceous loricate choanoflagellates. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20122543.	1.2	39
320	Metabolomics Enables the Structure Elucidation of a Diatom Sex Pheromone. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 854-857.	7.2	122
321	Transcriptome analysis of <i>Chlamydomonas reinhardtii</i> during the process of lipid accumulation. <i>Genomics</i> , 2013, 101, 229-237.	1.3	102
322	Identification of several sub-populations in the pool of light harvesting proteins in the pennate diatom <i>Phaeodactylum tricornutum</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 303-310.	0.5	76
323	Time-resolved metabolomics of a novel trebouxiophycean alga using ¹³ CO ₂ feeding. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 408-415.	1.1	11
324	Diatom frustules as light traps enhance DSSC efficiency. <i>Nanoscale</i> , 2013, 5, 873-876.	2.8	74
325	Transcriptomic analysis of metabolic function in the giant kelp, <i>Macrocystis pyrifera</i> , across depth and season. <i>New Phytologist</i> , 2013, 198, 398-407.	3.5	51
326	Horizontal gene transfer in the evolution of photosynthetic eukaryotes. <i>Journal of Systematics and Evolution</i> , 2013, 51, 13-29.	1.6	23
327	Phylogenetic aspects of the sulfate assimilation genes from <i>Thalassiosira pseudonana</i> . <i>Amino Acids</i> , 2013, 44, 1253-1265.	1.2	12
328	With a Little Help from Prokaryotes. <i>Science</i> , 2013, 339, 1154-1155.	6.0	13
329	Gene Transfer from Bacteria and Archaea Facilitated Evolution of an Extremophilic Eukaryote. <i>Science</i> , 2013, 339, 1207-1210.	6.0	439
330	Inheritance of Mitochondrial DNA in the Pennate Diatom <i>Haslea ostrearia</i> (Naviculaceae) during Auxosporulation Suggests a Uniparental Transmission. <i>Protist</i> , 2013, 164, 340-351.	0.6	17
332	Comprehensive guide to acetyl-carboxylases in algae. <i>Critical Reviews in Biotechnology</i> , 2013, 33, 49-65.	5.1	92

#	ARTICLE	IF	CITATIONS
333	“Eco-omics” A Review of the Application of Genomics, Transcriptomics, and Proteomics for the Study of the Ecology of Harmful Algae. <i>Microbial Ecology</i> , 2013, 65, 901-915.	1.4	48
334	Functional characterization of an ACCase subunit from the diatom <i>Phaeodactylum tricornutum</i> expressed in <i>Escherichia coli</i> . <i>Biotechnology and Applied Biochemistry</i> , 2013, 60, 330-335.	1.4	10
335	Different transcriptional responses of heat shock protein 70/90 in the marine diatom <i>Ditylum brightwellii</i> exposed to metal compounds and endocrine-disrupting chemicals. <i>Chemosphere</i> , 2013, 92, 535-543.	4.2	23
336	Post-cryopreservation viability of the benthic freshwater diatom <i>Planothidium frequentissimum</i> depends on light levels. <i>Cryobiology</i> , 2013, 67, 23-29.	0.3	17
338	Mono- and digalactosyldiacylglycerol composition of the marenzelleri-producing diatom, <i>Thalassiosira weissflogii</i> : Comparison to a selection of pennate and centric diatoms. <i>Phycological Research</i> , 2013, 61, 199-207.	0.8	18
339	Programmed cell death in plants: lessons from bacteria?. <i>Trends in Plant Science</i> , 2013, 18, 133-139.	4.3	46
340	Spatial heterogeneity of diatom silicification and growth in a eutrophic reservoir. <i>Freshwater Biology</i> , 2013, 58, 1889-1902.	1.2	23
341	Nutrient resupplementation arrests bio-oil accumulation in <i>Phaeodactylum tricornutum</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 7049-7059.	1.7	68
342	Biofuels from microalgae: Photoconversion efficiency during lipid accumulation. <i>Bioresource Technology</i> , 2013, 142, 647-654.	4.8	57
343	Identification and Characterization of an Extracellular Alkaline Phosphatase in the Marine Diatom <i>Phaeodactylum tricornutum</i> . <i>Marine Biotechnology</i> , 2013, 15, 425-436.	1.1	52
344	Using transcriptomic profiles in the diatom <i>Phaeodactylum tricornutum</i> to identify and prioritize stressors. <i>Aquatic Toxicology</i> , 2013, 138-139, 12-25.	1.9	43
345	Transcriptome analysis of the sulfate deficiency response in the marine microalga <i>Emiliania huxleyi</i> . <i>New Phytologist</i> , 2013, 199, 650-662.	3.5	71
346	The scale and evolutionary significance of horizontal gene transfer in the choanoflagellate <i>Monosiga brevicollis</i> . <i>BMC Genomics</i> , 2013, 14, 729.	1.2	26
348	Evolution of Three LOV Blue Light Receptor Families in Green Plants and Photosynthetic Stramenopiles: Phototropin, ZTL/FKF1/LKP2 and Aureochrome. <i>Plant and Cell Physiology</i> , 2013, 54, 8-23.	1.5	115
349	Cell Biology of Chromerids. <i>International Review of Cell and Molecular Biology</i> , 2013, 306, 333-369.	1.6	26
350	Blue light is essential for high light acclimation and photoprotection in the diatom <i>Phaeodactylum tricornutum</i> . <i>Journal of Experimental Botany</i> , 2013, 64, 483-493.	2.4	141
351	Modeling Biosilicification at Subcellular Scales. <i>Progress in Molecular and Subcellular Biology</i> , 2013, 54, 117-141.	0.9	0
352	Sequence Comparative Analysis Using Networks: Software for Evaluating De Novo Transcript Assembly from Next-Generation Sequencing. <i>Molecular Biology and Evolution</i> , 2013, 30, 1975-1986.	3.5	12

#	ARTICLE	IF	CITATIONS
353	The Repertoires of Ubiquitinating and Deubiquitinating Enzymes in Eukaryotic Genomes. <i>Molecular Biology and Evolution</i> , 2013, 30, 1172-1187.	3.5	70
354	Positive Selection within a Diatom Species Acts on Putative Protein Interactions and Transcriptional Regulation. <i>Molecular Biology and Evolution</i> , 2013, 30, 422-434.	3.5	24
355	Horizontal Gene Transfer is a Significant Driver of Gene Innovation in Dinoflagellates. <i>Genome Biology and Evolution</i> , 2013, 5, 2368-2381.	1.1	37
356	A Broad Phylogenetic Survey Unveils the Diversity and Evolution of Telomeres in Eukaryotes. <i>Genome Biology and Evolution</i> , 2013, 5, 468-483.	1.1	89
357	A simple probabilistic model of submicroscopic diatom morphogenesis. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130067.	1.5	17
358	The case of horizontal gene transfer from bacteria to the peculiar dinoflagellate plastid genome. <i>Mobile Genetic Elements</i> , 2013, 3, e25845.	1.8	15
359	AUREOCHROME1a-Mediated Induction of the Diatom-Specific Cyclin <i>dsCYC2</i> Controls the Onset of Cell Division in Diatoms (<i>Phaeodactylum tricornutum</i>). <i>Plant Cell</i> , 2013, 25, 215-228.	3.1	136
360	Gene Regulation of Carbon Fixation, Storage, and Utilization in the Diatom <i>Phaeodactylum tricornutum</i> Acclimated to Light/Dark Cycles. <i>Plant Physiology</i> , 2013, 161, 1034-1048.	2.3	138
361	Origins and diversity of eukaryotic CO ₂ -concentrating mechanisms: lessons for the future. <i>Journal of Experimental Botany</i> , 2013, 64, 769-786.	2.4	144
362	The Central Carbon and Energy Metabolism of Marine Diatoms. <i>Metabolites</i> , 2013, 3, 325-346.	1.3	59
363	Genome-wide diel growth state transitions in the diatom <i>Thalassiosira pseudonana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7518-7523.	3.3	132
364	Biomedical Inorganic Polymers. <i>Progress in Molecular and Subcellular Biology</i> , 2013, , .	0.9	7
365	Uptake of iodide in the marine haptophyte <i>Isochrysis</i> sp. (T. <i>ISO</i>) driven by iodide oxidation. <i>Journal of Phycology</i> , 2013, 49, 640-647.	1.0	24
366	SLC4 family transporters in a marine diatom directly pump bicarbonate from seawater. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1767-1772.	3.3	142
367	picoPLAZA, a genome database of microbial photosynthetic eukaryotes. <i>Environmental Microbiology</i> , 2013, 15, 2147-2153.	1.8	87
368	Silicic acid supplied to coastal diatom communities influences cellular silicification and the potential export of carbon. <i>Limnology and Oceanography</i> , 2013, 58, 1707-1726.	1.6	16
370	Pathways of Lipid Metabolism in Marine Algae, Co-Expression Network, Bottlenecks and Candidate Genes for Enhanced Production of EPA and DHA in Species of Chromista. <i>Marine Drugs</i> , 2013, 11, 4662-4697.	2.2	181
371	Third-generation biofuels: current and future research on microalgal lipid biotechnology. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2013, 20, D606.	0.6	29

#	ARTICLE	IF	CITATIONS
372	A unique method for culturing diatoms on agar plates. <i>Plankton and Benthos Research</i> , 2013, 8, 46-48.	0.2	8
373	Telomeres: Their Structure and Maintenance. , 0, , .		2
374	Identification and Characterisation CRN Effectors in <i>Phytophthora capsici</i> Shows Modularity and Functional Diversity. <i>PLoS ONE</i> , 2013, 8, e59517.	1.1	156
375	Molecular and Photosynthetic Responses to Prolonged Darkness and Subsequent Acclimation to Re-Illumination in the Diatom <i>Phaeodactylum tricornutum</i> . <i>PLoS ONE</i> , 2013, 8, e58722.	1.1	109
376	Linkage Mapping Identifies the Sex Determining Region as a Single Locus in the Pennate Diatom <i>Seminavis robusta</i> . <i>PLoS ONE</i> , 2013, 8, e60132.	1.1	30
377	Carbohydrate-Active Enzymes in <i>Pythium</i> and Their Role in Plant Cell Wall and Storage Polysaccharide Degradation. <i>PLoS ONE</i> , 2013, 8, e72572.	1.1	106
378	Identification and Functional Analysis of Delta-9 Desaturase, a Key Enzyme in PUFA Synthesis, Isolated from the Oleaginous Diatom <i>Fistulifera</i> . <i>PLoS ONE</i> , 2013, 8, e73507.	1.1	20
379	Aureochrome 1a Is Involved in the Photoacclimation of the Diatom <i>Phaeodactylum tricornutum</i> . <i>PLoS ONE</i> , 2013, 8, e74451.	1.1	77
380	Comparative Genomics Reveals Insight into Virulence Strategies of Plant Pathogenic Oomycetes. <i>PLoS ONE</i> , 2013, 8, e75072.	1.1	164
381	Putting the N in dinoflagellates. <i>Frontiers in Microbiology</i> , 2013, 4, 369.	1.5	104
382	Biosynthesis of Polyunsaturated Fatty Acids in the Oleaginous Marine Diatom <i>Fistulifera</i> sp. Strain JPCC DA0580. <i>Marine Drugs</i> , 2013, 11, 5008-5023.	2.2	27
383	Gas-Chromatography Mass-Spectrometry (GC-MS) Based Metabolite Profiling Reveals Mannitol as a Major Storage Carbohydrate in the Coccolithophorid Alga <i>Emiliania huxleyi</i> . <i>Metabolites</i> , 2013, 3, 168-184.	1.3	32
384	Amino Acid Biosynthesis Pathways in Diatoms. <i>Metabolites</i> , 2013, 3, 294-311.	1.3	114
385	System Responses to Equal Doses of Photosynthetically Usable Radiation of Blue, Green, and Red Light in the Marine Diatom <i>Phaeodactylum tricornutum</i> . <i>PLoS ONE</i> , 2014, 9, e114211.	1.1	73
386	Comparative Transcriptome of Wild Type and Selected Strains of the Microalgae <i>Tisochrysis lutea</i> Provides Insights into the Genetic Basis, Lipid Metabolism and the Life Cycle. <i>PLoS ONE</i> , 2014, 9, e86889.	1.1	52
387	Conserved Gene Order and Expanded Inverted Repeats Characterize Plastid Genomes of <i>Thalassiosirales</i> . <i>PLoS ONE</i> , 2014, 9, e107854.	1.1	44
388	Identification of Transcription Factor Genes and Their Correlation with the High Diversity of Stramenopiles. <i>PLoS ONE</i> , 2014, 9, e111841.	1.1	12
389	Transcriptional responses of three model diatoms to nitrate limitation of growth. <i>Frontiers in Marine Science</i> , 2014, 1, .	1.2	111

#	ARTICLE	IF	CITATIONS
390	The Challenge of Ecophysiological Biodiversity for Biotechnological Applications of Marine Microalgae. <i>Marine Drugs</i> , 2014, 12, 1641-1675.	2.2	71
391	Predicting the reproduction strategies of several microalgae through their genome sequences. <i>Journal of Ocean University of China</i> , 2014, , 1.	0.6	0
392	The diversity of small non-coding RNAs in the diatom <i>Phaeodactylum tricornutum</i> . <i>BMC Genomics</i> , 2014, 15, 698.	1.2	40
393	Heterotrimeric G-proteins in green algae. <i>Plant Signaling and Behavior</i> , 2014, 9, e28457.	1.2	22
394	Eukaryotic algal phytochromes span the visible spectrum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3871-3876.	3.3	153
395	Structural divergence and loss of phosphoinositide-specific phospholipase C signaling components during the evolution of the green plant lineage: implications from structural characteristics of algal components. <i>Frontiers in Plant Science</i> , 2014, 5, 380.	1.7	6
396	Flavonoids: a metabolic network mediating plants adaptation to their real estate. <i>Frontiers in Plant Science</i> , 2014, 5, 620.	1.7	221
397	Understanding the Sub-Cellular Dynamics of Silicon Transportation and Synthesis in Diatoms Using Population-Level Data and Computational Optimization. <i>PLoS Computational Biology</i> , 2014, 10, e1003687.	1.5	6
398	The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. <i>PLoS Biology</i> , 2014, 12, e1001889.	2.6	885
399	A new subfamily LIP of the major intrinsic proteins. <i>BMC Genomics</i> , 2014, 15, 173.	1.2	31
400	Biologically enabled sub-diffractive focusing. <i>Optics Express</i> , 2014, 22, 27214.	1.7	36
401	Systems-level analysis of the metabolic responses of the diatom <i>Phaeodactylum tricornutum</i> to phosphorus stress. <i>Environmental Microbiology</i> , 2014, 16, 1793-1807.	1.8	78
402	Horizontal gene acquisitions by eukaryotes as drivers of adaptive evolution. <i>BioEssays</i> , 2014, 36, 9-20.	1.2	126
404	Fucoxanthin-Chlorophyll-Proteins and Non-Photochemical Fluorescence Quenching of Diatoms. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 259-275.	1.0	13
405	Carbon Fixation in Diatoms. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 335-362.	1.0	15
406	Toy models for macroevolutionary patterns and trends. <i>BioSystems</i> , 2014, 123, 54-66.	0.9	6
407	Computational prediction and experimental validation of microRNAs in the brown alga <i>Ectocarpus siliculosus</i> . <i>Nucleic Acids Research</i> , 2014, 42, 417-429.	6.5	20
408	Methylcrotonyl-CoA Carboxylase Regulates Triacylglycerol Accumulation in the Model Diatom <i>Phaeodactylum tricornutum</i> . <i>Plant Cell</i> , 2014, 26, 1681-1697.	3.1	136

#	ARTICLE	IF	CITATIONS
409	Structure and Functional Heterogeneity of Fucoxanthin-Chlorophyll Proteins in Diatoms. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 21-37.	1.0	24
410	Horizontal Gene Transfer and Redundancy of Tryptophan Biosynthetic Enzymes in Dinotoms. <i>Genome Biology and Evolution</i> , 2014, 6, 333-343.	1.1	20
411	Profiling of Polar Lipids in Marine Oleaginous Diatom <i>Fistulifera solaris</i> JPCC DA0580: Prediction of the Potential Mechanism for Eicosapentaenoic Acid-Incorporation into Triacylglycerol. <i>Marine Drugs</i> , 2014, 12, 3218-3230.	2.2	31
412	Accumulation of free amino acids in marine diatom resting cells during rejuvenation. <i>Journal of Sea Research</i> , 2014, 85, 483-490.	0.6	4
413	Protein degradation during the diatom cell cycle: Annotation and transcriptional analysis of SCF and APC/C ubiquitin ligase genes in <i>Phaeodactylum tricornutum</i> . <i>Marine Genomics</i> , 2014, 14, 39-46.	0.4	15
414	Widespread horizontal transfer of the cerato-ulmin gene between <i>Ophiostoma novo-ulmi</i> and <i>Geosmithia</i> species. <i>Fungal Biology</i> , 2014, 118, 663-674.	1.1	16
415	The Cryptochrome/Photolyase Family in aquatic organisms. <i>Marine Genomics</i> , 2014, 14, 23-37.	0.4	81
416	Evolution of galactoglycerolipid biosynthetic pathways “ From cyanobacteria to primary plastids and from primary to secondary plastids. <i>Progress in Lipid Research</i> , 2014, 54, 68-85.	5.3	118
417	Transcriptome analysis reveals pathogenicity and evolutionary history of the pathogenic oomycete <i>Pythium insidiosum</i> . <i>Fungal Biology</i> , 2014, 118, 640-653.	1.1	38
418	Transcriptome and Gene Expression Analysis of an Oleaginous Diatom Under Different Salinity Conditions. <i>Bioenergy Research</i> , 2014, 7, 192-205.	2.2	55
419	Host-specific adaptation governs the interaction of the marine diatom, <i>Pseudo-nitzschia</i> and their microbiota. <i>ISME Journal</i> , 2014, 8, 63-76.	4.4	137
420	Algal photoreceptors: in vivo functions and potential applications. <i>Planta</i> , 2014, 239, 1-26.	1.6	104
421	Identification of a frustule-associated protein of the marine pennate diatom <i>Fistulifera</i> sp. strain JPCC DA0580. <i>Marine Genomics</i> , 2014, 16, 39-44.	0.4	13
422	Characterization of iron-responsive promoters in the marine diatom <i>Phaeodactylum tricornutum</i> . <i>Marine Genomics</i> , 2014, 16, 55-62.	0.4	24
423	Isolation, Expression, and Characterization of Blue Light Receptor AUREOCHROME Gene From <i>Saccharina japonica</i> (Laminariales, Phaeophyceae). <i>Marine Biotechnology</i> , 2014, 16, 135-143.	1.1	19
424	Transcriptome sequencing of essential marine brown and red algal species in China and its significance in algal biology and phylogeny. <i>Acta Oceanologica Sinica</i> , 2014, 33, 1-12.	0.4	22
425	Four Amino Acid Residues Influence the Substrate Chain Length and Regioselectivity of <i>Siganus canaliculatus</i> Δ^4 and $\Delta^5/6$ Desaturases. <i>Lipids</i> , 2014, 49, 357-367.	0.7	30
426	Different iron sources to study the physiology and biochemistry of iron metabolism in marine micro-algae. <i>BioMetals</i> , 2014, 27, 75-88.	1.8	27

#	ARTICLE	IF	CITATIONS
427	A novel cryptochrome in the diatom <i>Phaeodactylum tricornutum</i> influences the regulation of light-harvesting protein levels. <i>FEBS Journal</i> , 2014, 281, 2299-2311.	2.2	52
428	Functional investigations in diatoms need more than a transcriptomic approach. <i>Diatom Research</i> , 2014, 29, 75-89.	0.5	19
429	Adenosine content and growth in the diatom <i>Phaeodactylum tricornutum</i> (Bacillariophyceae): effect of salinity, light, temperature and nitrate. <i>Diatom Research</i> , 2014, 29, 361-369.	0.5	11
430	Dissolved organic matter (DOM) release by phytoplankton in the contemporary and future ocean. <i>European Journal of Phycology</i> , 2014, 49, 20-46.	0.9	330
431	The others: our biased perspective of eukaryotic genomes. <i>Trends in Ecology and Evolution</i> , 2014, 29, 252-259.	4.2	167
432	Synthetic Polyester from Algae Oil. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6800-6804.	7.2	82
433	Detection of flavonoids in microalgae from different evolutionary lineages. <i>Journal of Phycology</i> , 2014, 50, 483-492.	1.0	144
434	Phosphorus deficiency affects multiple macromolecular biosynthesis pathways of <i>Thalassiosira weissflogii</i> . <i>Acta Oceanologica Sinica</i> , 2014, 33, 85-91.	0.4	22
435	The Structural Basis of Biological Energy Generation. <i>Advances in Photosynthesis and Respiration</i> , 2014, , .	1.0	4
436	Glyceraldehyde-3-phosphate dehydrogenase is regulated by ferredoxin-NADP reductase in the diatom <i>Asterionella formosa</i> . <i>New Phytologist</i> , 2014, 203, 414-423.	3.5	32
437	Sabkha Ecosystems: Volume IV: Cash Crop Halophyte and Biodiversity Conservation. <i>Tasks for Vegetation Science</i> , 2014, , .	0.6	15
438	Histone extraction protocol from the two model diatoms <i>Phaeodactylum tricornutum</i> and <i>Thalassiosira pseudonana</i> . <i>Marine Genomics</i> , 2014, 13, 21-25.	0.4	10
439	Molecular regulation of the diatom cell cycle. <i>Journal of Experimental Botany</i> , 2014, 65, 2573-2584.	2.4	43
440	Selection and validation of reference genes for qPCR analysis in the pennate diatoms <i>Pseudo-nitzschia multistriata</i> and <i>P. arenysensis</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2014, 451, 74-81.	0.7	22
441	An introduction to the vast world of transposable elements – what about the diatoms?. <i>Diatom Research</i> , 2014, 29, 91-104.	0.5	8
442	Metabolic engineering of <i>Phaeodactylum tricornutum</i> for the enhanced accumulation of omega-3 long chain polyunsaturated fatty acids. <i>Metabolic Engineering</i> , 2014, 22, 3-9.	3.6	260
443	Effect of environmental conditions on various enzyme activities and triacylglycerol contents in cultures of the freshwater diatom, <i>Asterionella formosa</i> (Bacillariophyceae). <i>Biochimie</i> , 2014, 101, 21-30.	1.3	26
444	The chloroplast genome of the diatom <i>Seminavis robusta</i> : New features introduced through multiple mechanisms of horizontal gene transfer. <i>Marine Genomics</i> , 2014, 16, 17-27.	0.4	43

#	ARTICLE	IF	CITATIONS
445	iTRAQ-Based Proteomic Analysis of the Metabolism Mechanism Associated with Silicon Response in the Marine Diatom <i>Thalassiosira pseudonana</i> . Journal of Proteome Research, 2014, 13, 720-734.	1.8	47
446	Localization of enzymes relating to C4 organic acid metabolisms in the marine diatom, <i>Thalassiosira pseudonana</i> . Photosynthesis Research, 2014, 121, 251-263.	1.6	33
447	Endosymbiotic Gene Transfer in Tertiary Plastid-Containing Dinoflagellates. Eukaryotic Cell, 2014, 13, 246-255.	3.4	52
448	<i>Klebsormidium flaccidum</i> genome reveals primary factors for plant terrestrial adaptation. Nature Communications, 2014, 5, 3978.	5.8	532
449	The ice-binding proteins of a snow alga, <i>Chloromonas brevispina</i> : probable acquisition by horizontal gene transfer. Extremophiles, 2014, 18, 987-994.	0.9	66
450	Nitrogen and sulfur assimilation in plants and algae. Aquatic Botany, 2014, 118, 45-61.	0.8	108
451	3 Systematics of the Straminipila: Labyrinthulomycota, Hyphochytriomycota, and Oomycota. , 2014, , 39-97.		56
452	Control Mechanism of Excitation Energy Transfer in a Complex Consisting of Photosystem II and Fucoxanthin Chlorophyll <i>a</i> -Binding Protein. Journal of Physical Chemistry Letters, 2014, 5, 2983-2987.	2.1	30
453	First Evidence of Mariner-like Transposons in the Genome of the Marine Microalga <i>Amphora acutiuscula</i> (Bacillariophyta). Protist, 2014, 165, 730-744.	0.6	8
454	A microarray for assessing transcription from pelagic marine microbial taxa. ISME Journal, 2014, 8, 1476-1491.	4.4	29
455	Antagonistic roles of abscisic acid and cytokinin during response to nitrogen depletion in oleaginous microalga <i>Nannochloropsis oceanica</i> expand the evolutionary breadth of phytohormone function. Plant Journal, 2014, 80, 52-68.	2.8	101
456	Tracking the sterol biosynthesis pathway of the diatom <i>Phaeodactylum tricorutum</i> . New Phytologist, 2014, 204, 521-535.	3.5	73
457	Global discovery and characterization of small non-coding RNAs in marine microalgae. BMC Genomics, 2014, 15, 697.	1.2	21
458	Adhesion molecules from the diatom <i>Phaeodactylum tricorutum</i> (Bacillariophyceae): genomic identification by amino acid profiling and in vivo analysis. Journal of Phycology, 2014, 50, 837-849.	1.0	21
459	A trehalose-6-phosphate synthase gene from <i>Saccharina japonica</i> (Laminariales, Phaeophyceae). Molecular Biology Reports, 2014, 41, 529-536.	1.0	15
460	Toy models for macroevolutionary patterns and trends. BioSystems, 2014, 122, 25-37.	0.9	16
461	Applications of next-generation sequencing to unravelling the evolutionary history of algae. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 333-345.	0.8	48
462	A multilocus timescale for oomycete evolution estimated under three distinct molecular clock models. BMC Evolutionary Biology, 2014, 14, 101.	3.2	53

#	ARTICLE	IF	CITATIONS
463	The molecular life of diatoms. <i>Marine Genomics</i> , 2014, 16, 1-3.	0.4	1
464	Phosphoproteomic Analysis Provides Novel Insights into Stress Responses in <i>Phaeodactylum tricornutum</i> , a Model Diatom. <i>Journal of Proteome Research</i> , 2014, 13, 2511-2523.	1.8	39
465	Light-Harvesting Ability of the Fucoxanthin Chlorophyll <i>a</i> -Binding Protein Associated with Photosystem II from the Diatom <i>Chaetoceros gracilis</i> As Revealed by Picosecond Time-Resolved Fluorescence Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5093-5100.	1.2	38
466	Serial Gene Losses and Foreign DNA Underlie Size and Sequence Variation in the Plastid Genomes of Diatoms. <i>Genome Biology and Evolution</i> , 2014, 6, 644-654.	1.1	72
467	Advances in the Production of High-Value Products by Microalgae. <i>Industrial Biotechnology</i> , 2014, 10, 169-183.	0.5	199
468	Re-print of "Histone extraction protocol from the two model diatoms <i>Phaeodactylum tricornutum</i> and <i>Thalassiosira pseudonana</i> ". <i>Marine Genomics</i> , 2014, 16, 67-71.	0.4	1
469	Development and validation of a quantitative PCR assay for the early detection and monitoring of the invasive diatom <i>Didymosphenia geminata</i> . <i>Harmful Algae</i> , 2014, 36, 63-70.	2.2	12
470	Isolation and Characterization of the Diatom <i>Phaeodactylum</i> δ^5 -Elongase Gene for Transgenic LC-PUFA Production in <i>Pichia pastoris</i> . <i>Marine Drugs</i> , 2014, 12, 1317-1334.	2.2	20
472	Combining focusing properties of a single diatom valve with optical eigenmodes in ultra-shrinking of light. , 2014, , .		0
473	Identification of the meiotic toolkit in diatoms and exploration of meiosis-specific SPO11 and RAD51 homologs in the sexual species <i>Pseudo-nitzschia multistriata</i> and <i>Seminavis robusta</i> . <i>BMC Genomics</i> , 2015, 16, 930.	1.2	53
475	Characterization of marine diatom-infecting virus promoters in the model diatom <i>Phaeodactylum tricornutum</i> . <i>Scientific Reports</i> , 2015, 5, 18708.	1.6	34
476	Alternative Splicing in the Obligate Biotrophic Oomycete Pathogen <i>Pseudoperonospora cubensis</i> . <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 298-309.	1.4	19
477	Transcriptome sequencing of three <i>Pseudo-nitzschia</i> species reveals comparable gene sets and the presence of Nitric Oxide Synthase genes in diatoms. <i>Scientific Reports</i> , 2015, 5, 12329.	1.6	58
478	Ultrastructure and Membrane Traffic During Cell Division in the Marine Pennate Diatom <i>Phaeodactylum tricornutum</i> . <i>Protist</i> , 2015, 166, 506-521.	0.6	51
479	An integrative analysis of post-translational histone modifications in the marine diatom <i>Phaeodactylum tricornutum</i> . <i>Genome Biology</i> , 2015, 16, 102.	3.8	107
480	Comparative proteomics reveals highly and differentially expressed proteins in field-collected and laboratory-cultured blooming cells of the diatom <i>Skeletonema costatum</i> . <i>Environmental Microbiology</i> , 2015, 17, 3976-3991.	1.8	12
481	An RNA interference knock-down of nitrate reductase enhances lipid biosynthesis in the diatom <i>Phaeodactylum tricornutum</i> . <i>Plant Journal</i> , 2015, 84, 963-973.	2.8	42
482	Transcriptional coordination of physiological responses in <i>Nannochloropsis oceanica</i> CCMP 1779 under light/dark cycles. <i>Plant Journal</i> , 2015, 83, 1097-1113.	2.8	69

#	ARTICLE	IF	CITATIONS
483	In Silico Analysis of Correlations between Protein Disorder and Post-Translational Modifications in Algae. <i>International Journal of Molecular Sciences</i> , 2015, 16, 19812-19835.	1.8	20
484	Molecular Detection of a Potentially Toxic Diatom Species. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 4921-4941.	1.2	26
485	Inventory of Fatty Acid Desaturases in the Pennate Diatom <i>Phaeodactylum tricornutum</i> . <i>Marine Drugs</i> , 2015, 13, 1317-1339.	2.2	64
486	Low-Molecular-Weight Metabolites from Diatoms: Structures, Biological Roles and Biosynthesis. <i>Marine Drugs</i> , 2015, 13, 3672-3709.	2.2	73
487	Effect of an Introduced Phytoene Synthase Gene Expression on Carotenoid Biosynthesis in the Marine Diatom <i>Phaeodactylum tricornutum</i> . <i>Marine Drugs</i> , 2015, 13, 5334-5357.	2.2	62
488	Photosynthetic Pigments in Diatoms. <i>Marine Drugs</i> , 2015, 13, 5847-5881.	2.2	272
489	Diatom-Specific Oligosaccharide and Polysaccharide Structures Help to Unravel Biosynthetic Capabilities in Diatoms. <i>Marine Drugs</i> , 2015, 13, 5993-6018.	2.2	135
490	Photo-Oxidative Stress-Driven Mutagenesis and Adaptive Evolution on the Marine Diatom <i>Phaeodactylum tricornutum</i> for Enhanced Carotenoid Accumulation. <i>Marine Drugs</i> , 2015, 13, 6138-6151.	2.2	60
491	Rapidly diverging evolution of an atypical alkaline phosphatase (PhoAaty) in marine phytoplankton: insights from dinoflagellate alkaline phosphatases. <i>Frontiers in Microbiology</i> , 2015, 6, 868.	1.5	46
492	Nitrate Storage and Dissimilatory Nitrate Reduction by Eukaryotic Microbes. <i>Frontiers in Microbiology</i> , 2015, 6, 1492.	1.5	93
493	The Elicitin-Like Glycoprotein, ELI025, Is Secreted by the Pathogenic Oomycete <i>Pythium insidiosum</i> and Evades Host Antibody Responses. <i>PLoS ONE</i> , 2015, 10, e0118547.	1.1	22
494	Diversity and Evolutionary History of Iron Metabolism Genes in Diatoms. <i>PLoS ONE</i> , 2015, 10, e0129081.	1.1	69
495	A Metabolic Probe-Enabled Strategy Reveals Uptake and Protein Targets of Polyunsaturated Aldehydes in the Diatom <i>Phaeodactylum tricornutum</i> . <i>PLoS ONE</i> , 2015, 10, e0140927.	1.1	2
496	Towards the Industrial Production of Omega-3 Long Chain Polyunsaturated Fatty Acids from a Genetically Modified Diatom <i>Phaeodactylum tricornutum</i> . <i>PLoS ONE</i> , 2015, 10, e0144054.	1.1	99
497	Phylogeny of Algal Sequences Encoding Carbohydrate Sulfotransferases, Formylglycine-Dependent Sulfatases, and Putative Sulfatase Modifying Factors. <i>Frontiers in Plant Science</i> , 2015, 6, 1057.	1.7	16
498	Predicting the reproduction strategies of several microalgae through their genome sequences. <i>Journal of Ocean University of China</i> , 2015, 14, 491-502.	0.6	2
499	Genetic Engineering of Marine Microalgae to Optimize Bioenergy Production. , 2015, , 371-381.		4
500	Genetic Engineering for Microalgae Strain Improvement in Relation to Biocrude Production Systems. <i>Biofuel and Biorefinery Technologies</i> , 2015, , 191-249.	0.1	8

#	ARTICLE	IF	CITATIONS
501	Exploiting the Molecular Genetics of Microalgae. , 2015, , 331-352.		2
502	Obesity and Periodontal Disease. , 2015, , 463-467.		2
503	Biomass and Biofuels from Microalgae. Biofuel and Biorefinery Technologies, 2015, , .	0.1	33
504	Protein import into complex plastids: Cellular organization of higher complexity. European Journal of Cell Biology, 2015, 94, 340-348.	1.6	32
505	Designer diatom episomes delivered by bacterial conjugation. Nature Communications, 2015, 6, 6925.	5.8	249
506	Toward Applications of Genomics and Metabolic Modeling to Improve Algal Biomass Productivity. Biofuel and Biorefinery Technologies, 2015, , 173-189.	0.1	5
507	Interaction of photosystem I from <i>Phaeodactylum tricornutum</i> with plastocyanins as compared with its native cytochrome c6: Reunion with a lost donor. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 1549-1559.	0.5	5
508	Phylogenomics in Algal Research: Current Trends and Future Perspectives. Cellular Origin and Life in Extreme Habitats, 2015, , 501-517.	0.3	1
509	Algal Biotechnology. Cellular Origin and Life in Extreme Habitats, 2015, , 319-338.	0.3	2
510	Actin, actin-related proteins and profilin in diatoms: A comparative genomic analysis. Marine Genomics, 2015, 23, 133-142.	0.4	12
511	<i>Phaeodactylum tricornutum</i> photorespiration takes part in glycerol metabolism and is important for nitrogen-limited response. Biotechnology for Biofuels, 2015, 8, 73.	6.2	27
512	Intraspecific diversity and distribution of the cosmopolitan species <i>Pseudo-nitzschia pungens</i> (<i>Bacillariophyceae</i>): morphology, genetics, and ecophysiology of the three clades. Journal of Phycology, 2015, 51, 159-172.	1.0	34
513	Reproductive properties of diatoms significant for their cultivation and biotechnology. Russian Journal of Plant Physiology, 2015, 62, 153-160.	0.5	9
514	Transcriptional analysis of <i>Volvox</i> photoreceptors suggests the existence of different cell-type specific light-signaling pathways. Current Genetics, 2015, 61, 3-18.	0.8	24
515	Sulfur Deprivation Results in Oxidative Perturbation in <i>Chlorella sorokiniana</i> (211/8k). Plant and Cell Physiology, 2015, 56, 897-905.	1.5	35
516	Plastid proteome prediction for diatoms and other algae with secondary plastids of the red lineage. Plant Journal, 2015, 81, 519-528.	2.8	174
517	Marine Silicon Biotechnology. , 2015, , 1337-1354.		1
518	Role of Small Subunit in Mediating Assembly of Red-type Form I Rubisco. Journal of Biological Chemistry, 2015, 290, 1066-1074.	1.6	32

#	ARTICLE	IF	CITATIONS
519	Phytoplankton Strategies for Photosynthetic Energy Allocation. Annual Review of Marine Science, 2015, 7, 265-297.	5.1	183
520	Improving microalgae for biotechnology – From genetics to synthetic biology. Biotechnology Advances, 2015, 33, 1194-1203.	6.0	106
521	N-terminal lysines are essential for protein translocation via a modified ERAD system in complex plastids. Molecular Microbiology, 2015, 96, 609-620.	1.2	16
522	Marine Microalgae. , 2015, , 51-63.		2
523	Oil Accumulation by the Oleaginous Diatom <i>Fistulifera solaris</i> as Revealed by the Genome and Transcriptome. Plant Cell, 2015, 27, 162-176.	3.1	149
524	Fundamental shift in vitamin B12 eco-physiology of a model alga demonstrated by experimental evolution. ISME Journal, 2015, 9, 1446-1455.	4.4	65
525	Molecular basis of chromatic adaptation in pennate diatom <i>Phaeodactylum tricornutum</i> . Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 534-543.	0.5	50
526	Comprehensive computational analysis of leucine-rich repeat (LRR) proteins encoded in the genome of the diatom <i>Phaeodactylum tricornutum</i> . Marine Genomics, 2015, 21, 43-51.	0.4	3
527	Purification of a diatom and its identification to <i>Cylindrotheca closterium</i> . Journal of Ocean University of China, 2015, 14, 357-361.	0.6	5
528	Metabolic pathway engineering towards enhancing microalgal lipid biosynthesis for biofuel application – A review. Renewable and Sustainable Energy Reviews, 2015, 50, 1239-1253.	8.2	111
529	Phylogenetic analysis of methionine synthesis genes from <i>Thalassiosira pseudonana</i> . SpringerPlus, 2015, 4, 391.	1.2	8
530	The diatom molecular toolkit to handle nitrogen uptake. Marine Genomics, 2015, 24, 95-108.	0.4	48
531	Genomic perspectives on the birth and spread of plastids. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10147-10153.	3.3	121
532	Utilization of light by fucoxanthin-chlorophyll-binding protein in a marine centric diatom, <i>Chaetoceros gracilis</i> . Photosynthesis Research, 2015, 126, 437-447.	1.6	14
533	The response of <i>Phaeodactylum tricornutum</i> to quantum dot exposure: Acclimation and changes in protein expression. Marine Environmental Research, 2015, 111, 149-157.	1.1	12
534	microRNAs and the evolution of complex multicellularity: identification of a large, diverse complement of microRNAs in the brown alga <i>Ectocarpus</i> . Nucleic Acids Research, 2015, 43, 6384-6398.	6.5	40
535	Whole-cell response to nitrogen deprivation in the diatom <i>Phaeodactylum tricornutum</i> . Journal of Experimental Botany, 2015, 66, 6281-6296.	2.4	230
536	Energetic coupling between plastids and mitochondria drives CO ₂ assimilation in diatoms. Nature, 2015, 524, 366-369.	13.7	311

#	ARTICLE	IF	CITATIONS
537	The upstream regulatory sequence of the light harvesting complex Lhcf2 gene of the marine diatom <i>Phaeodactylum tricornutum</i> enhances transcription in an orientation- and distance-independent fashion. <i>Marine Genomics</i> , 2015, 24, 69-79.	0.4	15
538	Diversity and expression of diatom silicon transporter genes during a flood event in the East China Sea. <i>Marine Biology</i> , 2015, 162, 1511-1522.	0.7	2
539	Insights into possible cell-death markers in the diatom <i>Skeletonema marinoi</i> in response to senescence and silica starvation. <i>Marine Genomics</i> , 2015, 24, 81-88.	0.4	25
540	Silicon enhances the growth of <i>Phaeodactylum tricornutum</i> Bohlin under green light and low temperature. <i>Scientific Reports</i> , 2014, 4, 3958.	1.6	40
541	Phylogenomic analysis of <i>Emiliania huxleyi</i> provides evidence for haptophyte-“stramenopile association and a chimeric haptophyte nuclear genome. <i>Marine Genomics</i> , 2015, 21, 31-42.	0.4	8
542	Improving the sunlight-to-biomass conversion efficiency in microalgal biofactories. <i>Journal of Biotechnology</i> , 2015, 201, 28-42.	1.9	39
543	Metatranscriptomes reveal functional variation in diatom communities from the Antarctic Peninsula. <i>ISME Journal</i> , 2015, 9, 2275-2289.	4.4	55
544	Now you see it, now you donâ€™t: differences in hydrocarbon production in the diatom <i>Phaeodactylum tricornutum</i> due to growth temperature. <i>Journal of Applied Phycology</i> , 2015, 27, 1463-1472.	1.5	6
545	The role of pyruvate hub enzymes in supplying carbon precursors for fatty acid synthesis in photosynthetic microalgae. <i>Photosynthesis Research</i> , 2015, 125, 407-422.	1.6	52
546	Genetic and physiological responses of three freshwater diatoms to realistic diuron exposures. <i>Environmental Science and Pollution Research</i> , 2015, 22, 4046-4055.	2.7	34
547	Metatranscriptome analyses indicate resource partitioning between diatoms in the field. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2182-90.	3.3	166
548	Transcriptomic characterisation and genomic glimps into the toxigenic dinoflagellate <i>Azadinium spinosum</i> , with emphasis on polyketide synthase genes. <i>BMC Genomics</i> , 2015, 16, 27.	1.2	40
549	Developing diatoms for value-added products: challenges and opportunities. <i>New Biotechnology</i> , 2015, 32, 547-551.	2.4	53
550	Establishment of Genetic Transformation in the Sexually Reproducing Diatoms <i>Pseudo-nitzschia multistriata</i> and <i>Pseudo-nitzschia arenysensis</i> and Inheritance of the Transgene. <i>Marine Biotechnology</i> , 2015, 17, 452-462.	1.1	33
551	Sequencing of the complete genome of an araphid pennate diatom <i>Synedra acus</i> subsp. <i>radians</i> from Lake Baikal. <i>Doklady Biochemistry and Biophysics</i> , 2015, 461, 84-88.	0.3	34
552	An Expressed Sequence Tag Database Analysis of Fatty Acid Genes in <i>Stichococcus bacillaris</i> Strain Siva2011. , 2015, , 429-438.		2
553	Elucidating the composition and conservation of the autophagy pathway in photosynthetic eukaryotes. <i>Autophagy</i> , 2015, 11, 701-715.	4.3	79
554	Dissecting signal and noise in diatom chloroplast protein encoding genes with phylogenetic information profiling. <i>Molecular Phylogenetics and Evolution</i> , 2015, 89, 28-36.	1.2	81

#	ARTICLE	IF	CITATIONS
555	An efficient screening method for the isolation of heterotrophic bacteria influencing growth of diatoms under photoautotrophic conditions. <i>Journal of Microbiological Methods</i> , 2015, 119, 154-162.	0.7	25
556	Diatom silica biomineralization: Parallel development of approaches and understanding. <i>Seminars in Cell and Developmental Biology</i> , 2015, 46, 27-35.	2.3	47
557	The Pseudoautosomal Regions of the U/V Sex Chromosomes of the Brown Alga <i>Ectocarpus</i> Exhibit Unusual Features. <i>Molecular Biology and Evolution</i> , 2015, 32, 2973-2985.	3.5	25
558	β-N-methylamino-l-alanine (BMAA) and isomers: Distribution in different food web compartments of Thau lagoon, French Mediterranean Sea. <i>Marine Environmental Research</i> , 2015, 110, 8-18.	1.1	73
559	Ecology and Evolution of Marine Diatoms and Parmales. , 2015, , 251-275.		7
560	Dual Organellar Targeting of Aminoacyl-tRNA Synthetases in Diatoms and Cryptophytes. <i>Genome Biology and Evolution</i> , 2015, 7, 1728-1742.	1.1	46
561	Mechanisms of fatty acid synthesis in marine fungus-like protists. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8363-8375.	1.7	40
562	A lytic bacterium's potential application in biofuel production through directly lysing the diatom <i>Phaeodactylum tricornutum</i> cell. <i>Algal Research</i> , 2015, 12, 197-205.	2.4	9
563	Expression of the retrotransposons <i>Surcouf</i> and <i>Blackbeard</i> in the marine diatom <i>Phaeodactylum tricornutum</i> under thermal stress. <i>Phycologia</i> , 2015, 54, 617-627.	0.6	20
564	Dynamics of Dissolved Organic Nitrogen. , 2015, , 127-232.		92
565	Membrane Glycerolipid Remodeling Triggered by Nitrogen and Phosphorus Starvation in <i>Phaeodactylum tricornutum</i> . <i>Plant Physiology</i> , 2015, 167, 118-136.	2.3	286
566	Regulation of the initial events in microalgal triacylglycerol (TAG) synthesis: hypotheses. <i>Journal of Applied Phycology</i> , 2015, 27, 1385-1387.	1.5	9
568	Biodiversity of NPQ. <i>Journal of Plant Physiology</i> , 2015, 172, 13-32.	1.6	353
569	Evidence for a Regulatory Role of Diatom Silicon Transporters in Cellular Silicon Responses. <i>Eukaryotic Cell</i> , 2015, 14, 29-40.	3.4	97
570	Evolution and function of light harvesting proteins. <i>Journal of Plant Physiology</i> , 2015, 172, 62-75.	1.6	126
571	Heterotrophic growth of microalgae: metabolic aspects. <i>World Journal of Microbiology and Biotechnology</i> , 2015, 31, 1-9.	1.7	119
572	The Molecular Ecophysiology of Programmed Cell Death in Marine Phytoplankton. <i>Annual Review of Marine Science</i> , 2015, 7, 341-375.	5.1	131
573	Techniques for Quantifying Phytoplankton Biodiversity. <i>Annual Review of Marine Science</i> , 2015, 7, 299-324.	5.1	30

#	ARTICLE	IF	CITATIONS
574	Reduction in Carotenoid Levels in the Marine Diatom <i>Phaeodactylum tricornutum</i> by Artificial MicroRNAs Targeted Against the Endogenous Phytoene Synthase Gene. <i>Marine Biotechnology</i> , 2015, 17, 1-7.	1.1	36
575	Chloroplast-targeting protein expression in the oleaginous diatom <i>Fistulifera solaris</i> JPC DA0580 toward metabolic engineering. <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 28-34.	1.1	21
576	Genome of the halotolerant green alga <i>Picochlorum</i> sp. reveals strategies for thriving under fluctuating environmental conditions. <i>Environmental Microbiology</i> , 2015, 17, 412-426.	1.8	85
577	Inactivation of <i>Picochlorum tricornutum</i> urease gene using transcription activator-like effector nuclease-based targeted mutagenesis. <i>Plant Biotechnology Journal</i> , 2015, 13, 460-470.	4.1	128
578	Refinement of the Diatom Episome Maintenance Sequence and Improvement of Conjugation-Based DNA Delivery Methods. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 65.	2.0	74
579	Photo-Protection in the Centric Diatom <i>Coscinodiscus granii</i> is Not Controlled by Chloroplast High-Light Avoidance Movement. <i>Frontiers in Marine Science</i> , 2016, 2, .	1.2	15
580	Genetic Manipulation of Competition for Nitrate between Heterotrophic Bacteria and Diatoms. <i>Frontiers in Microbiology</i> , 2016, 7, 880.	1.5	55
581	Intracellular Nitrate of Marine Diatoms as a Driver of Anaerobic Nitrogen Cycling in Sinking Aggregates. <i>Frontiers in Microbiology</i> , 2016, 7, 1669.	1.5	28
582	Specific Metabolites in a <i>Phaeodactylum tricornutum</i> Strain Isolated from Western Norwegian Fjord Water. <i>Marine Drugs</i> , 2016, 14, 9.	2.2	22
583	Algal Cell Factories: Approaches, Applications, and Potentials. <i>Marine Drugs</i> , 2016, 14, 225.	2.2	65
584	Genome-Scale Model Reveals Metabolic Basis of Biomass Partitioning in a Model Diatom. <i>PLoS ONE</i> , 2016, 11, e0155038.	1.1	104
585	New Cysteine-Rich Ice-Binding Protein Secreted from Antarctic Microalga, <i>Chloromonas</i> sp.. <i>PLoS ONE</i> , 2016, 11, e0154056.	1.1	18
586	Transgene Expression in Microalgae—From Tools to Applications. <i>Frontiers in Plant Science</i> , 2016, 7, 505.	1.7	174
587	Assessment of sequence variation from SIT1 gene on diatom (Bacillariophyceae) using in silico PCR. <i>AIP Conference Proceedings</i> , 2016, . .	0.3	0
588	Metabolic flux ratio analysis and cell staining suggest the existence of C4 photosynthesis in <i>Phaeodactylum tricornutum</i> . <i>Journal of Applied Microbiology</i> , 2016, 120, 705-713.	1.4	4
589	Diatom Vacuolar 1,6-Transglycosylases can Functionally Complement the Respective Yeast Mutants. <i>Journal of Eukaryotic Microbiology</i> , 2016, 63, 536-546.	0.8	29
590	Role of riboswitches in gene regulation and their potential for algal biotechnology. <i>Journal of Phycology</i> , 2016, 52, 320-328.	1.0	13
591	Transcript level coordination of carbon pathways during silicon starvation-induced lipid accumulation in the diatom <i>Thalassiosira pseudonana</i> . <i>New Phytologist</i> , 2016, 210, 890-904.	3.5	82

#	ARTICLE	IF	CITATIONS
592	Structural insights into the LCIB protein family reveals a new group of Γ^2 -carbonic anhydrases. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14716-14721.	3.3	61
593	A pivotal role of vacuolar H ⁺ -ATPase in regulation of lipid production in <i>Phaeodactylum tricornutum</i> . Scientific Reports, 2016, 6, 31319.	1.6	16
594	Editing of the urease gene by CRISPR-Cas in the diatom <i>Thalassiosira pseudonana</i> . Plant Methods, 2016, 12, 49.	1.9	137
595	The plastid genome of some eustigmatophyte algae harbours a bacteria-derived six-gene cluster for biosynthesis of a novel secondary metabolite. Open Biology, 2016, 6, 160249.	1.5	35
596	Sequencing of the Litchi Downy Blight Pathogen Reveals It Is a <i>Phytophthora</i> Species With Downy Mildew-Like Characteristics. Molecular Plant-Microbe Interactions, 2016, 29, 573-583.	1.4	73
597	Cloning of a novel endogenous promoter for foreign gene expression in <i>Phaeodactylum tricornutum</i> . Applied Biological Chemistry, 2016, 59, 861-867.	0.7	14
598	Genome and methylome of the oleaginous diatom <i>Cyclotella cryptica</i> reveal genetic flexibility toward a high lipid phenotype. Biotechnology for Biofuels, 2016, 9, 258.	6.2	87
599	Changes in Relative Thylakoid Protein Abundance Induced by Fluctuating Light in the Diatom <i>Thalassiosira pseudonana</i> . Journal of Proteome Research, 2016, 15, 1649-1658.	1.8	19
600	Algal Physiology and Large-Scale Outdoor Cultures of Microalgae. , 2016, , 601-652.		51
601	Diatom Phytochromes Reveal the Existence of Far-Red-Light-Based Sensing in the Ocean. Plant Cell, 2016, 28, 616-628.	3.1	105
602	Bridging the gap between omics and earth system science to better understand how environmental change impacts marine microbes. Global Change Biology, 2016, 22, 61-75.	4.2	58
603	Opinion: Can coalescent models explain deep divergences in the diatoms and argue for the acceptance of paraphyletic taxa at all taxonomic hierarchies?. Nova Hedwigia, 2016, 102, 107-128.	0.2	11
604	The physiology and genetics of CO ₂ concentrating mechanisms in model diatoms. Current Opinion in Plant Biology, 2016, 31, 51-57.	3.5	81
605	Flux balance analysis of primary metabolism in the diatom <i>Phaeodactylum tricornutum</i> . Plant Journal, 2016, 85, 161-176.	2.8	70
606	A comparison of lipid content metrics using six species from the genus <i>Halamphora</i> (Bacillariophyta). Biofuels, 2016, 7, 521-528.	1.4	4
607	Physiological and photophysiological responses of the benthic diatom <i>Entomoneis paludosa</i> (Bacillariophyceae) to dissolved inorganic and organic nitrogen in culture. Marine Biology, 2016, 163, 1.	0.7	27
608	Microalgae as Solar-Powered Protein Factories. Advances in Experimental Medicine and Biology, 2016, 896, 241-262.	0.8	33
609	Ultrastructure of the Periplastidial Compartment of the Diatom <i>Phaeodactylum tricornutum</i> . Protist, 2016, 167, 254-267.	0.6	54

#	ARTICLE	IF	CITATIONS
610	Characterization of genome-wide microsatellites of <i>Saccharina japonica</i> based on a preliminary assembly of Illumina sequencing reads. <i>Journal of Ocean University of China</i> , 2016, 15, 523-532.	0.6	6
611	Time-Resolved Detection of Light-Induced Dimerization of Monomeric Aureochrome-1 and Change in Affinity for DNA. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7360-7370.	1.2	26
612	Evolutionary insight into the ionotropic glutamate receptor superfamily of photosynthetic organisms. <i>Biophysical Chemistry</i> , 2016, 218, 14-26.	1.5	50
613	A Phylogenomic Framework to Study the Diversity and Evolution of Stramenopiles (=Heterokonts). <i>Molecular Biology and Evolution</i> , 2016, 33, 2890-2898.	3.5	125
614	Adaptations to photoautotrophy associated with seasonal ice cover in a large lake revealed by metatranscriptome analysis of a winter diatom bloom. <i>Journal of Great Lakes Research</i> , 2016, 42, 1007-1015.	0.8	20
615	Phosphorus physiological ecology and molecular mechanisms in marine phytoplankton. <i>Journal of Phycology</i> , 2016, 52, 10-36.	1.0	254
616	Drivers That Structure Biodiversity in the Plankton. , 2016, , 13-24.		3
617	Genome editing of model oleaginous microalgae <i>Nannochloropsis</i> spp. by CRISPR/Cas9. <i>Plant Journal</i> , 2016, 88, 1071-1081.	2.8	229
618	Importance of Polyunsaturated Fatty Acids from Marine Algae. , 2016, , 101-126.		5
619	The effect of exogenous $\hat{2}$ -N-methylamino- l -alanine (BMAA) on the diatoms <i>Phaeodactylum tricornutum</i> and <i>Thalassiosira weissflogii</i> . <i>Harmful Algae</i> , 2016, 58, 85-92.	2.2	11
620	Origins of tmRNA: the missing link in the birth of protein synthesis?. <i>Nucleic Acids Research</i> , 2016, 44, 8041-8051.	6.5	17
621	Programmed Cell Death in Unicellular Phytoplankton. <i>Current Biology</i> , 2016, 26, R594-R607.	1.8	145
622	Advantageous characteristics of the diatom <i>Chaetoceros gracilis</i> as a sustainable biofuel producer. <i>Biotechnology for Biofuels</i> , 2016, 9, 235.	6.2	37
623	Progressive and Biased Divergent Evolution Underpins the Origin and Diversification of Peridinin Dinoflagellate Plastids. <i>Molecular Biology and Evolution</i> , 2016, 34, msw235.	3.5	13
624	Direct evidence of the molecular basis for biological silicon transport. <i>Nature Communications</i> , 2016, 7, 11926.	5.8	40
625	Biological Adhesives. , 2016, , .		23
626	Diatom Adhesives: Molecular and Mechanical Properties. , 2016, , 57-86.		6
627	Chitinase producing bacteria with direct algicidal activity on marine diatoms. <i>Scientific Reports</i> , 2016, 6, 21984.	1.6	46

#	ARTICLE	IF	CITATIONS
628	Addressing various compartments of the diatom model organism <i>Phaeodactylum tricornutum</i> via sub-cellular marker proteins. <i>Algal Research</i> , 2016, 20, 249-257.	2.4	43
629	Systematic Search for Evidence of Interdomain Horizontal Gene Transfer from Prokaryotes to Oomycete Lineages. <i>MSphere</i> , 2016, 1, .	1.3	22
630	How Embryogenesis Began in Evolution. , 2016, , 1-74.		0
631	Phototrophic Microorganisms: The Basis of the Marine Food Web. , 2016, , 57-97.		4
632	Molecular cloning, characterization, and comparison of UDP-glucose pyrophosphorylase from <i>Gracilaria chouae</i> and <i>Saccharina japonica</i> . <i>Journal of Applied Phycology</i> , 2016, 28, 2051-2059.	1.5	8
633	Searching for a Mate: Pheromone-Directed Movement of the Benthic Diatom <i>Seminavis robusta</i> . <i>Microbial Ecology</i> , 2016, 72, 287-294.	1.4	27
634	Multisignal control of expression of the LHCX protein family in the marine diatom <i>Phaeodactylum tricornutum</i> . <i>Journal of Experimental Botany</i> , 2016, 67, 3939-3951.	2.4	93
635	Comprehensive metabolic reprogramming in freshwater <i>Nitzschia palea</i> strains undergoing nitrogen starvation is likely associated with its ecological origin. <i>Algal Research</i> , 2016, 18, 116-126.	2.4	13
636	Functional Relationship between a Dinoflagellate Host and Its Diatom Endosymbiont. <i>Molecular Biology and Evolution</i> , 2016, 33, 2376-2390.	3.5	43
637	Microalgae Synthesize Hydrocarbons from Long-Chain Fatty Acids via a Light-Dependent Pathway. <i>Plant Physiology</i> , 2016, 171, 2393-2405.	2.3	102
638	The nature of the CO_2 -concentrating mechanisms in a marine diatom, <i>Thalassiosira pseudonana</i> . <i>New Phytologist</i> , 2016, 209, 1417-1427.	3.5	60
639	Noncoding and coding transcriptome responses of a marine diatom to phosphate fluctuations. <i>New Phytologist</i> , 2016, 210, 497-510.	3.5	118
640	A <i>Phaeodactylum tricornutum</i> literature database for interactive annotation of content. <i>Algal Research</i> , 2016, 18, 241-243.	2.4	0
641	Evolution of the diatoms: major steps in their evolution and a review of the supporting molecular and morphological evidence. <i>Phycologia</i> , 2016, 55, 79-103.	0.6	70
642	Pan-transcriptomic analysis identifies coordinated and orthologous functional modules in the diatoms <i>Thalassiosira pseudonana</i> and <i>Phaeodactylum tricornutum</i> . <i>Marine Genomics</i> , 2016, 26, 21-28.	0.4	40
643	Photosystem II cycle activity and alternative electron transport in the diatom <i>Phaeodactylum tricornutum</i> under dynamic light conditions and nitrogen limitation. <i>Photosynthesis Research</i> , 2016, 128, 151-161.	1.6	36
644	The Cell Cycle of Microalgae. , 2016, , 3-46.		19
645	Sterols in Microalgae. , 2016, , 485-505.		22

#	ARTICLE	IF	CITATIONS
646	Knockdown of phosphoenolpyruvate carboxykinase increases carbon flux to lipid synthesis in <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2016, 15, 50-58.	2.4	63
647	Stress-induced neutral lipid biosynthesis in microalgae – Molecular, cellular and physiological insights. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1269-1281.	1.2	146
648	Progress toward isolation of strains and genetically engineered strains of microalgae for production of biofuel and other value added chemicals: A review. <i>Energy Conversion and Management</i> , 2016, 113, 104-118.	4.4	140
649	Selective silicate-directed motility in diatoms. <i>Nature Communications</i> , 2016, 7, 10540.	5.8	72
650	The Genome of the Model Species <i>Anthoceros agrestis</i> . <i>Advances in Botanical Research</i> , 2016, , 189-211.	0.5	13
651	Architecture of the light-harvesting apparatus of the eustigmatophyte alga <i>Nannochloropsis oceanica</i> . <i>Photosynthesis Research</i> , 2016, 130, 137-150.	1.6	43
652	Reverse transcriptase genes are highly abundant and transcriptionally active in marine plankton assemblages. <i>ISME Journal</i> , 2016, 10, 1134-1146.	4.4	35
653	Identification of a triacylglycerol lipase in the diatom <i>Phaeodactylum tricornutum</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 239-248.	1.2	60
654	Identification of a Major Lipid Droplet Protein in a Marine Diatom <i>Phaeodactylum tricornutum</i> . <i>Plant and Cell Physiology</i> , 2016, 57, 397-406.	1.5	57
655	Profiling of the Early Nitrogen Stress Response in the Diatom <i>Phaeodactylum tricornutum</i> Reveals a Novel Family of RING-Domain Transcription Factors. <i>Plant Physiology</i> , 2016, 170, 489-498.	2.3	40
656	BMAA extraction of cyanobacteria samples: which method to choose?. <i>Environmental Science and Pollution Research</i> , 2016, 23, 338-350.	2.7	42
657	Comparative mitochondrial genome analysis of <i>Pythium insidiosum</i> and related oomycete species provides new insights into genetic variation and phylogenetic relationships. <i>Gene</i> , 2016, 575, 34-41.	1.0	11
658	Wastewater effects on <i>Phaeodactylum tricornutum</i> (Bohlin): Setting up a classification system. <i>Ecological Indicators</i> , 2016, 60, 31-37.	2.6	25
659	Silencing UDP-glucose pyrophosphorylase gene in <i>Phaeodactylum tricornutum</i> affects carbon allocation. <i>New Biotechnology</i> , 2016, 33, 237-244.	2.4	75
660	Physiological adjustments and transcriptome reprogramming are involved in the acclimation to salinity gradients in diatoms. <i>Environmental Microbiology</i> , 2017, 19, 909-925.	1.8	29
661	Genome complexity of harmful microalgae. <i>Harmful Algae</i> , 2017, 63, 7-12.	2.2	21
662	The <i>Ectocarpus IMMEDIATE UPRIGHT</i> gene encodes a member of a novel family of cysteine-rich proteins that have an unusual distribution across the eukaryotes. <i>Development (Cambridge)</i> , 2017, 144, 409-418.	1.2	27
663	Evolutionary genomics of the cold-adapted diatom <i>Fragilariopsis cylindrus</i> . <i>Nature</i> , 2017, 541, 536-540.	13.7	332

#	ARTICLE	IF	CITATIONS
664	Evolution of the Sterol Biosynthetic Pathway of <i>Pythium insidiosum</i> and Related Oomycetes Contributes to Antifungal Drug Resistance. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	53
665	Recent progress in diatom genomics and epigenomics. <i>Current Opinion in Plant Biology</i> , 2017, 36, 46-55.	3.5	33
666	A fast and reliable strategy to generate TALEN-mediated gene knockouts in the diatom <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2017, 23, 186-195.	2.4	57
667	Photo-CIDNP in the Reaction Center of the Diatom <i>Cyclotella meneghiniana</i> Observed by ¹³ C MAS NMR. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 347-367.	1.4	15
668	Responses of the marine diatom <i>Thalassiosira pseudonana</i> to changes in CO ₂ concentration: a proteomic approach. <i>Scientific Reports</i> , 2017, 7, 42333.	1.6	36
669	The Isochores as a Fundamental Level of Genome Structure and Organization: A General Overview. <i>Journal of Molecular Evolution</i> , 2017, 84, 93-103.	0.8	30
670	Recent Advances in Improving Ecophysiology of Microalgae for Biofuels. , 2017, , 141-162.		2
671	Diatom life cycles and ecology in the Cretaceous. <i>Journal of Phycology</i> , 2017, 53, 616-628.	1.0	7
672	The transcription factor bZIP14 regulates the TCA cycle in the diatom <i>Phaeodactylum tricornutum</i> . <i>EMBO Journal</i> , 2017, 36, 1559-1576.	3.5	64
673	Finding a partner in the ocean: molecular and evolutionary bases of the response to sexual cues in a planktonic diatom. <i>New Phytologist</i> , 2017, 215, 140-156.	3.5	115
674	Occurrence and biosynthesis of carotenoids in phytoplankton. <i>Biotechnology Advances</i> , 2017, 35, 597-618.	6.0	75
675	Expansion of the redox-sensitive proteome coincides with the plastid endosymbiosis. <i>Nature Plants</i> , 2017, 3, 17066.	4.7	26
676	The Implications of Eco-Evolutionary Processes for the Emergence of Marine Plankton Community Biogeography. <i>American Naturalist</i> , 2017, 190, 116-130.	1.0	25
677	<i>Cymbomonas tetramitiformis</i> - a peculiar prasinophyte with a taste for bacteria sheds light on plastid evolution. <i>Symbiosis</i> , 2017, 71, 1-7.	1.2	10
678	Iron and vitamin interactions in marine diatom isolates and natural assemblages of the Northeast Pacific Ocean. <i>Limnology and Oceanography</i> , 2017, 62, 2076-2096.	1.6	47
679	Surface sensing and stress-signalling in <i>Ulva</i> and fouling diatoms – potential targets for antifouling: a review. <i>Biofouling</i> , 2017, 33, 410-432.	0.8	11
680	Marine diatoms change their gene expression profile when exposed to microscale turbulence under nutrient replete conditions. <i>Scientific Reports</i> , 2017, 7, 3826.	1.6	27
681	UV-C irradiation accelerates neutral lipid synthesis in the marine oleaginous diatom <i>Fistulifera solaris</i> . <i>Bioresource Technology</i> , 2017, 245, 1520-1526.	4.8	13

#	ARTICLE	IF	CITATIONS
682	Phylogenomic Reconstruction of the Oomycete Phylogeny Derived from 37 Genomes. <i>MSphere</i> , 2017, 2, .	1.3	84
683	The diversity of CO ₂ -concentrating mechanisms in marine diatoms as inferred from their genetic content. <i>Journal of Experimental Botany</i> , 2017, 68, 3937-3948.	2.4	27
684	A Non-photosynthetic Diatom Reveals Early Steps of Reductive Evolution in Plastids. <i>Molecular Biology and Evolution</i> , 2017, 34, 2355-2366.	3.5	52
685	Differential effects of nitrate, ammonium, and urea as N sources for microbial communities in the North Pacific Ocean. <i>Limnology and Oceanography</i> , 2017, 62, 2550-2574.	1.6	39
686	Diatoms: By, with and as Endosymbionts. , 2017, , 371-397.		2
687	Aspects of phosphorus physiology associated with phosphate-induced polar lipid remodelling in marine microalgae.. <i>Journal of Plant Physiology</i> , 2017, 214, 28-38.	1.6	31
688	Overexpression of endogenous delta-6 fatty acid desaturase gene enhances eicosapentaenoic acid accumulation in <i>Phaeodactylum tricornutum</i> . <i>Process Biochemistry</i> , 2017, 57, 43-49.	1.8	34
689	Relationship between isoprene emission and photosynthesis in diatoms, and its implications for global marine isoprene estimates. <i>Marine Chemistry</i> , 2017, 189, 17-24.	0.9	35
690	Use of plankton-derived vitamin B1 precursors, especially thiazole-related precursor, by key marine picoeukaryotic phytoplankton. <i>ISME Journal</i> , 2017, 11, 753-765.	4.4	69
691	The Influence of a Cryptochrome on the Gene Expression Profile in the Diatom <i>Phaeodactylum tricornutum</i> under Blue Light and in Darkness. <i>Plant and Cell Physiology</i> , 2017, 58, 1914-1923.	1.5	14
692	Red-light phenotype in a marine diatom involves a specialized oligomeric red-shifted antenna and altered cell morphology. <i>Scientific Reports</i> , 2017, 7, 11976.	1.6	31
693	Marine Microalgae: Systems Biology from "Omics"™. , 2017, , 207-221.		1
694	An Emerging Model Diatom to Study Nitrogen Metabolism. <i>Plant Cell</i> , 2017, 29, 1795-1796.	3.1	1
695	Valorization of Unconventional Lipids from Microalgae or Tall Oil via a Selective Dual Catalysis One-Pot Approach. <i>Journal of the American Chemical Society</i> , 2017, 139, 13487-13491.	6.6	20
696	An exception among diatoms: unique organization of genes involved in isoprenoid biosynthesis in <i>Rhizosolenia setigera</i> CCMP 1694. <i>Plant Journal</i> , 2017, 92, 822-833.	2.8	7
697	Nitric Oxide Mediates Nitrite-Sensing and Acclimation and Triggers a Remodeling of Lipids. <i>Plant Physiology</i> , 2017, 175, 1407-1423.	2.3	38
698	Intracellular spectral repositioning of light enhances algal photosynthetic efficiency. <i>Science Advances</i> , 2017, 3, e1603096.	4.7	42
699	Light-trapping in polymer solar cells by processing with nanostructured diatomaceous earth. <i>Organic Electronics</i> , 2017, 51, 422-427.	1.4	10

#	ARTICLE	IF	CITATIONS
700	High particulate iron(II) content in glacially sourced dusts enhances productivity of a model diatom. <i>Science Advances</i> , 2017, 3, e1700314.	4.7	50
701	Recurrent horizontal transfer of arsenite methyltransferase genes facilitated adaptation of life to arsenic. <i>Scientific Reports</i> , 2017, 7, 7741.	1.6	60
702	The Combination of RNA and Protein Profiling Reveals the Response to Nitrogen Depletion in <i>Thalassiosira pseudonana</i> . <i>Scientific Reports</i> , 2017, 7, 8989.	1.6	23
703	Light driven reactions in model algae. <i>Journal of Plant Physiology</i> , 2017, 217, 1-3.	1.6	5
704	Diatom centromeres suggest a mechanism for nuclear DNA acquisition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6015-E6024.	3.3	62
705	Sphingolipids in marine microalgae: Development and application of a mass spectrometric method for global structural characterization of ceramides and glycosphingolipids in three major phyla. <i>Analytica Chimica Acta</i> , 2017, 986, 82-94.	2.6	25
706	Diatom Frustule Morphogenesis and Function: a Multidisciplinary Survey. <i>Marine Genomics</i> , 2017, 35, 1-18.	0.4	85
707	Response of CO ₂ -starved diatom <i>Phaeodactylum tricornutum</i> to light intensity transition. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160396.	1.8	53
708	The evolution of diatoms and their biogeochemical functions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160397.	1.8	134
709	The role of intraspecific variation in the ecological and evolutionary success of diatoms in changing environments. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160399.	1.8	95
710	Regulation of the Calvin-Benson-Bassham cycle in the enigmatic diatoms: biochemical and evolutionary variations on an original theme. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160401.	1.8	38
711	Intracellular metabolic pathway distribution in diatoms and tools for genome-enabled experimental diatom research. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160402.	1.8	38
712	Mechanisms of carbon dioxide acquisition and CO ₂ sensing in marine diatoms: a gateway to carbon metabolism. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160403.	1.8	72
713	The effects of phosphorus limitation on carbon metabolism in diatoms. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160406.	1.8	101
714	Modulation of lipid biosynthesis by stress in diatoms. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160407.	1.8	97
715	Structure and properties of oil bodies in diatoms. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160408.	1.8	47
716	Towards an understanding of the molecular regulation of carbon allocation in diatoms: the interaction of energy and carbon allocation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160410.	1.8	36
717	An update on aureochromes: Phylogeny – mechanism – function. <i>Journal of Plant Physiology</i> , 2017, 217, 20-26.	1.6	57

#	ARTICLE	IF	CITATIONS
718	The cryptochromeâ€”photolyase protein family in diatoms. <i>Journal of Plant Physiology</i> , 2017, 217, 15-19.	1.6	26
719	Labyrinthulomycota. , 2017, , 507-542.		13
720	Bacillariophyta. , 2017, , 205-266.		20
721	New structural insights into the cell-wall polysaccharide of the diatom <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2017, 26, 172-179.	2.4	77
722	Nitrate Reductase Knockout Uncouples Nitrate Transport from Nitrate Assimilation and Drives Repartitioning of Carbon Flux in a Model Pennate Diatom. <i>Plant Cell</i> , 2017, 29, 2047-2070.	3.1	102
723	Co-production of lipids, eicosapentaenoic acid, fucoxanthin, and chrysolaminarin by <i>Phaeodactylum tricornutum</i> cultured in a flat-plate photobioreactor under varying nitrogen conditions. <i>Journal of Ocean University of China</i> , 2017, 16, 916-924.	0.6	82
724	Cryptomonads: A Model Organism Sheds Light on the Evolutionary History of Genome Reorganization in Secondary Endosymbioses. <i>Advances in Botanical Research</i> , 2017, 84, 263-320.	0.5	9
725	Field sampling marine plankton for biodiscovery. <i>Scientific Reports</i> , 2017, 7, 15863.	1.6	8
726	Secondary Plastids of Stramenopiles. <i>Advances in Botanical Research</i> , 2017, 84, 57-103.	0.5	17
727	The potential for co-evolution of CO ₂ -concentrating mechanisms and Rubisco in diatoms. <i>Journal of Experimental Botany</i> , 2017, 68, 3751-3762.	2.4	41
728	Dynamic responses to silicon in <i>Thalassiosira pseudonana</i> - Identification, characterisation and classification of signature genes and their corresponding protein motifs. <i>Scientific Reports</i> , 2017, 7, 4865.	1.6	27
729	Functional proteomics of light-harvesting complex proteins under varying light-conditions in diatoms. <i>Journal of Plant Physiology</i> , 2017, 217, 38-43.	1.6	9
730	Non-model model organisms. <i>BMC Biology</i> , 2017, 15, 55.	1.7	164
731	The role of Rubisco kinetics and pyrenoid morphology in shaping the CCM of haptophyte microalgae. <i>Journal of Experimental Botany</i> , 2017, 68, 3959-3969.	2.4	54
732	<scp>RNA</scp>-based targeted gene knockdown in the model oleaginous microalgae <i>Nannochloropsis oceanica</i>. <i>Plant Journal</i> , 2017, 89, 1236-1250.	2.8	74
733	<scp>E</scp>nvironmental dependence of the correlations between stoichiometric and fatty acidâ€based indicators of phytoplankton nutritional quality. <i>Limnology and Oceanography</i> , 2017, 62, 334-347.	1.6	20
734	Shuttling of (deoxyâ€) purine nucleotides between compartments of the diatom <i>Phaeodactylum tricornutum</i>. <i>New Phytologist</i> , 2017, 213, 193-205.	3.5	20
735	Hoarding and horizontal transfer led to an expanded gene and intron repertoire in the plastid genome of the diatom, <i>Toxarium undulatum</i> (Bacillariophyta). <i>Current Genetics</i> , 2017, 63, 499-507.	0.8	21

#	ARTICLE	IF	CITATIONS
736	Photoprotective and antioxidant responses to light spectrum and intensity variations in the coastal diatom <i>Skeletonema marinoi</i> . <i>Environmental Microbiology</i> , 2017, 19, 611-627.	1.8	50
737	Morphological and ultrastructural characterization of the acidophilic and lipid-producer strain <i>Chlamydomonas acidophila</i> LAFIC-004 (Chlorophyta) under different culture conditions. <i>Protoplasma</i> , 2017, 254, 1385-1398.	1.0	21
738	Re-analyses of Algal Genes Suggest a Complex Evolutionary History of Oomycetes. <i>Frontiers in Plant Science</i> , 2017, 8, 1540.	1.7	8
739	Diatom Transcriptional and Physiological Responses to Changes in Iron Bioavailability across Ocean Provinces. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	55
740	All New Faces of Diatoms: Potential Source of Nanomaterials and Beyond. <i>Frontiers in Microbiology</i> , 2017, 8, 1239.	1.5	75
741	Conserved Transcriptional Responses to Nutrient Stress in Bloom-Forming Algae. <i>Frontiers in Microbiology</i> , 2017, 8, 1279.	1.5	31
742	Ocean acidification modulates expression of genes and physiological performance of a marine diatom. <i>PLoS ONE</i> , 2017, 12, e0170970.	1.1	21
743	AS3MT-mediated tolerance to arsenic evolved by multiple independent horizontal gene transfers from bacteria to eukaryotes. <i>PLoS ONE</i> , 2017, 12, e0175422.	1.1	29
744	Defense related decadienal elicits membrane lipid remodeling in the diatom <i>Phaeodactylum tricornutum</i> . <i>PLoS ONE</i> , 2017, 12, e0178761.	1.1	7
745	Time-resolved transcriptome analysis and lipid pathway reconstruction of the oleaginous green microalga <i>Monoraphidium neglectum</i> reveal a model for triacylglycerol and lipid hyperaccumulation. <i>Biotechnology for Biofuels</i> , 2017, 10, 197.	6.2	35
746	Alga-PrAS (Algal Protein Annotation Suite): A Database of Comprehensive Annotation in Algal Proteomes. <i>Plant and Cell Physiology</i> , 2017, 58, pcw212.	1.5	11
747	Advanced genetic tools enable synthetic biology in the oleaginous microalgae <i>Nannochloropsis</i> sp.. <i>Plant Cell Reports</i> , 2018, 37, 1383-1399.	2.8	79
748	Current trends to comprehend lipid metabolism in diatoms. <i>Progress in Lipid Research</i> , 2018, 70, 1-16.	5.3	144
749	Transcriptome, Biochemical and Growth Responses of the Marine Phytoplankter <i>Phaeodactylum Tricornutum</i> Bohlin (Bacillariophyta) to Copepod Grazer Presence. <i>Cellular Physiology and Biochemistry</i> , 2018, 46, 1091-1111.	1.1	9
750	Iron storage capacities and associated ferritin gene expression among marine diatoms. <i>Limnology and Oceanography</i> , 2018, 63, 1677-1691.	1.6	26
751	Leveraging algal omics to reveal potential targets for augmenting TAG accumulation. <i>Biotechnology Advances</i> , 2018, 36, 1274-1292.	6.0	65
752	Silicon Coordinates DNA Replication with Transcription of the Replisome Factors in Diatom Algae. <i>Plant Molecular Biology Reporter</i> , 2018, 36, 257-272.	1.0	1
753	Reduced vacuolar β -1,3-glucan synthesis affects carbohydrate metabolism as well as plastid homeostasis and structure in <i>Phaeodactylum tricornutum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4791-4796.	3.3	39

#	ARTICLE	IF	CITATIONS
754	Phylogenomics reveals an extensive history of genome duplication in diatoms (Bacillariophyta). <i>American Journal of Botany</i> , 2018, 105, 330-347.	0.8	64
755	Pilot-scale production of antibacterial substances by the marine diatom <i>Phaeodactylum tricornutum</i> Bohlin. <i>Algal Research</i> , 2018, 32, 113-120.	2.4	17
756	Evolution of the Plastid Genomes in Diatoms. <i>Advances in Botanical Research</i> , 2018, 85, 129-155.	0.5	51
757	Toxicological effects of CdSe nanocrystals on the marine diatom <i>Phaeodactylum tricornutum</i> : The first mass spectrometry-based proteomic approach. <i>Ecotoxicology and Environmental Safety</i> , 2018, 152, 78-90.	2.9	28
758	Novel promoters for constitutive and inducible expression of transgenes in the diatom <i>Phaeodactylum tricornutum</i> under varied nitrate availability. <i>Journal of Applied Phycology</i> , 2018, 30, 2763-2772.	1.5	19
759	Examination of gene repertoires and physiological responses to iron and light limitation in Southern Ocean diatoms. <i>Polar Biology</i> , 2018, 41, 679-696.	0.5	28
760	Genome-wide searches and molecular analyses highlight the unique evolutionary path of flavone synthase I (FNSI) in Apiaceae. <i>Genome</i> , 2018, 61, 103-109.	0.9	7
761	An Expanded Plasmid-Based Genetic Toolbox Enables Cas9 Genome Editing and Stable Maintenance of Synthetic Pathways in <i>Phaeodactylum tricornutum</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 328-338.	1.9	124
762	PhytoNet: comparative co-expression network analyses across phytoplankton and land plants. <i>Nucleic Acids Research</i> , 2018, 46, W76-W83.	6.5	16
763	Screening for Biologically Annotated Drugs That Trigger Triacylglycerol Accumulation in the Diatom <i>Phaeodactylum</i> . <i>Plant Physiology</i> , 2018, 177, 532-552.	2.3	43
764	Integrative analysis of large scale transcriptome data draws a comprehensive landscape of <i>Phaeodactylum tricornutum</i> genome and evolutionary origin of diatoms. <i>Scientific Reports</i> , 2018, 8, 4834.	1.6	131
765	Transformation techniques for metabolic engineering of diatoms and haptophytes: current state and prospects. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 4255-4267.	1.7	19
766	Expressed sequence tag library of the marine green alga <i>Tetraselmis suecica</i> : a focus on stress-related genes for marine pollution. <i>Journal of Applied Phycology</i> , 2018, 30, 2387-2402.	1.5	7
767	The intracellular distribution of inorganic carbon fixing enzymes does not support the presence of a C4 pathway in the diatom <i>Phaeodactylum tricornutum</i> . <i>Photosynthesis Research</i> , 2018, 137, 263-280.	1.6	39
768	Production of chemicals from microalgae lipids – status and perspectives. <i>European Journal of Lipid Science and Technology</i> , 2018, 120, 1700152.	1.0	52
769	Signal, Uncertainty, and Conflict in Phylogenomic Data for a Diverse Lineage of Microbial Eukaryotes (Diatoms, Bacillariophyta). <i>Molecular Biology and Evolution</i> , 2018, 35, 80-93.	3.5	43
770	Enhanced biomass production by <i>Phaeodactylum tricornutum</i> overexpressing phosphoenolpyruvate carboxylase. <i>Algal Research</i> , 2018, 31, 489-496.	2.4	13
771	Functional genomics analysis reveals the biosynthesis pathways of important cellular components (alginate and fucoidan) of <i>Saccharina</i> . <i>Current Genetics</i> , 2018, 64, 259-273.	0.8	38

#	ARTICLE	IF	CITATIONS
772	Acetylome Profiling Reveals Extensive Lysine Acetylation of the Fatty Acid Metabolism Pathway in the Diatom <i>Phaeodactylum tricornutum</i> . <i>Molecular and Cellular Proteomics</i> , 2018, 17, 399-412.	2.5	26
773	Functional horizontal gene transfer from bacteria to eukaryotes. <i>Nature Reviews Microbiology</i> , 2018, 16, 67-79.	13.6	354
774	Minireview: algal natural compounds and extracts as antifoulants. <i>Journal of Applied Phycology</i> , 2018, 30, 1859-1874.	1.5	57
775	Effect of iron on the growth of <i>Phaeodactylum tricornutum</i> via photosynthesis. <i>Journal of Phycology</i> , 2018, 54, 34-43.	1.0	20
776	Heterogeneity of intron presence/absence in <i>Olifantiella</i> sp. (Bacillariophyta) contributes to the understanding of intron loss. <i>Journal of Phycology</i> , 2018, 54, 105-113.	1.0	15
777	Bacterial Epibiotic Communities of Ubiquitous and Abundant Marine Diatoms Are Distinct in Short- and Long-Term Associations. <i>Frontiers in Microbiology</i> , 2018, 9, 2879.	1.5	33
778	Light-harvesting protein Lhcx3 is essential for high light acclimation of <i>Phaeodactylum tricornutum</i> . <i>AMB Express</i> , 2018, 8, 174.	1.4	3
779	Development of Titania-Integrated Silica Cell Walls of the Titanium-Resistant Diatom, <i>Fistulifera solaris</i> . <i>ACS Applied Bio Materials</i> , 2018, 1, 2021-2029.	2.3	7
780	Comparative in depth RNA sequencing of <i>P. tricornutum</i> 's morphotypes reveals specific features of the oval morphotype. <i>Scientific Reports</i> , 2018, 8, 14340.	1.6	19
781	Biosynthesis of the neurotoxin domoic acid in a bloom-forming diatom. <i>Science</i> , 2018, 361, 1356-1358.	6.0	124
782	Variation of bacterial community associated with <i>Phaeodactylum tricornutum</i> in response to different inorganic nitrogen concentrations. <i>Acta Oceanologica Sinica</i> , 2018, 37, 118-128.	0.4	4
783	Identification and localization of peroxisomal biogenesis proteins indicates the presence of peroxisomes in the cryptophyte <i>Guillardia theta</i> and other "chromalveolates". <i>Genome Biology and Evolution</i> , 2018, 10, 2834-2852.	1.1	15
784	A Musashi Splice Variant and Its Interaction Partners Influence Temperature Acclimation in <i>Chlamydomonas</i> . <i>Plant Physiology</i> , 2018, 178, 1489-1506.	2.3	6
785	Comparative genome and transcriptome analysis of diatom, <i>Skeletonema costatum</i> , reveals evolution of genes for harmful algal bloom. <i>BMC Genomics</i> , 2018, 19, 765.	1.2	30
786	Genome Annotation of a Model Diatom <i>Phaeodactylum tricornutum</i> Using an Integrated Proteogenomic Pipeline. <i>Molecular Plant</i> , 2018, 11, 1292-1307.	3.9	44
787	Identification and Expression Analysis of an Atypical Alkaline Phosphatase in <i>Emiliania huxleyi</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 2156.	1.5	16
788	Metabolomics analysis of <i>Pseudomonas chlororaphis</i> JK12 algicidal activity under aerobic and micro-aerobic culture condition. <i>AMB Express</i> , 2018, 8, 131.	1.4	16
789	Structural Variation Analysis of Mutated <i>Nannochloropsis oceanica</i> Caused by Zeocin Through Genome Re-Sequencing. <i>Journal of Ocean University of China</i> , 2018, 17, 1225-1230.	0.6	3

#	ARTICLE	IF	CITATIONS
790	A family of silicon transporter structural genes in a pennate diatom <i>Synedra ulna</i> subsp. <i>danica</i> (KÄtz.) Skabitsch. PLoS ONE, 2018, 13, e0203161.	1.1	11
791	Endocytosis-mediated siderophore uptake as a strategy for Fe acquisition in diatoms. Science Advances, 2018, 4, eaar4536.	4.7	103
792	Manipulation of a glycolytic regulator alters growth and carbon partitioning in the marine diatom <i>Thalassiosira pseudonana</i> . Algal Research, 2018, 32, 250-258.	2.4	8
793	Identification of the triacylglycerol lipase in the chloroplast envelope of the diatom <i>Phaeodactylum tricornutum</i> . Algal Research, 2018, 33, 440-447.	2.4	28
794	Development of endogenous promoters that drive high-level expression of introduced genes in the model diatom <i>Phaeodactylum tricornutum</i> . Marine Genomics, 2018, 42, 41-48.	0.4	12
795	Intron-containing algal transgenes mediate efficient recombinant gene expression in the green microalga <i>Chlamydomonas reinhardtii</i> . Nucleic Acids Research, 2018, 46, 6909-6919.	6.5	136
796	A transposable element annotation pipeline and expression analysis reveal potentially active elements in the microalga <i>Tisochrysis lutea</i> . BMC Genomics, 2018, 19, 378.	1.2	45
797	Mitochondrial Glycolysis in a Major Lineage of Eukaryotes. Genome Biology and Evolution, 2018, 10, 2310-2325.	1.1	62
798	Competition between Silicifiers and Non-silicifiers in the Past and Present Ocean and Its Evolutionary Impacts. Frontiers in Marine Science, 2018, 5, .	1.2	29
799	The effect of the algal microbiome on industrial production of microalgae. Microbial Biotechnology, 2018, 11, 806-818.	2.0	110
800	A Rapid Method for the Determination of Fucoxanthin in Diatom. Marine Drugs, 2018, 16, 33.	2.2	52
801	Biology of Microalgae. , 2018, , 23-72.		57
802	Generation of Mutants of Nuclear-Encoded Plastid Proteins Using CRISPR/Cas9 in the Diatom <i>Phaeodactylum tricornutum</i> . Methods in Molecular Biology, 2018, 1829, 367-378.	0.4	6
803	Plastids. Methods in Molecular Biology, 2018, , .	0.4	1
804	Attachment between heterotrophic bacteria and microalgae influences symbiotic microscale interactions. Environmental Microbiology, 2018, 20, 4385-4400.	1.8	55
805	Homoeolog expression bias in allopolyploid oleaginous marine diatom <i>Fistulifera solaris</i> . BMC Genomics, 2018, 19, 330.	1.2	41
806	Chemical Mutagenesis and Fluorescence-Based High-Throughput Screening for Enhanced Accumulation of Carotenoids in a Model Marine Diatom <i>Phaeodactylum tricornutum</i> . Marine Drugs, 2018, 16, 272.	2.2	35
807	IronâSulfur Cluster Biosynthesis in Algae with Complex Plastids. Genome Biology and Evolution, 2018, 10, 2061-2071.	1.1	9

#	ARTICLE	IF	CITATIONS
808	Orchestration of transcriptome, proteome and metabolome in the diatom <i>Phaeodactylum tricornutum</i> during nitrogen limitation. <i>Algal Research</i> , 2018, 35, 33-49.	2.4	90
809	Recurrent Loss, Horizontal Transfer, and the Obscure Origins of Mitochondrial Introns in Diatoms (Bacillariophyta). <i>Genome Biology and Evolution</i> , 2018, 10, 1504-1515.	1.1	23
810	Diatom Allantoin Synthase Provides Structural Insights into Natural Fusion Protein Therapeutics. <i>ACS Chemical Biology</i> , 2018, 13, 2237-2246.	1.6	5
811	Molecular adaptations to phosphorus deprivation and comparison with nitrogen deprivation responses in the diatom <i>Phaeodactylum tricornutum</i> . <i>PLoS ONE</i> , 2018, 13, e0193335.	1.1	77
812	Overproduction of Bioactive Algal Chrysolaminarin by the Critical Carbon Flux Regulator Phosphoglucosyltransferase. <i>Biotechnology Journal</i> , 2019, 14, 1800220.	1.8	25
813	In Silico Predictions for Fucoxanthin Production by the Diatom <i>Phaeodactylum Tricornutum</i> . <i>Advances in Intelligent Systems and Computing</i> , 2019, , 139-148.	0.5	0
814	Engineering the unicellular alga <i>Phaeodactylum tricornutum</i> for high-value plant triterpenoid production. <i>Plant Biotechnology Journal</i> , 2019, 17, 75-87.	4.1	82
815	Structural and functional analyses of photosystem II in the marine diatom <i>Phaeodactylum tricornutum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17316-17322.	3.3	29
816	Fungal Horizontal Gene Transfer: A History Beyond the Phylogenetic Kingdoms. , 2019, , 315-336.		5
817	RNA-Seq Analysis Reveals Genes Related to Photoreception, Nutrient Uptake, and Toxicity in a Noxious Red-Tide Raphidophyte <i>Chattonella antiqua</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 1764.	1.5	16
818	Pumped Up by the Cold: Elemental Quotas and Stoichiometry of Cold-Water Diatoms. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	32
819	The pigment-protein network of a diatom photosystem II "light-harvesting antenna supercomplex. <i>Science</i> , 2019, 365, .	6.0	132
820	Genome assembly of <i>Nannochloropsis oceanica</i> provides evidence of host nucleus overthrow by the symbiont nucleus during speciation. <i>Communications Biology</i> , 2019, 2, 249.	2.0	29
821	In the beginning was the word: How terminology drives our understanding of endosymbiotic organelles. <i>Microbial Cell</i> , 2019, 6, 134-141.	1.4	10
822	<i>Phaeodactylum tricornutum</i> . <i>Trends in Genetics</i> , 2019, 35, 706-707.	2.9	8
823	Update of the list of QPS recommended biological agents intentionally added to food or feed as notified to EFSA 10: Suitability of taxonomic units notified to EFSA until March 2019. <i>EFSA Journal</i> , 2019, 17, e05753.	0.9	37
824	Identifying the growth associating genes of <i>Nannochloropsis oceanica</i> by bulked mutant analysis (BMA) and RNA sequencing (BMR-seq). <i>Journal of Applied Phycology</i> , 2019, 31, 3677-3690.	1.5	6
825	Morphology and molecular phylogeny of <i>Gomphonemopsis sieminskae</i> sp. nov. isolated from brackish waters of the East China Sea coast. <i>Plant and Fungal Systematics</i> , 2019, 64, 17-24.	0.7	1

#	ARTICLE	IF	CITATIONS
826	Omics approaches for microalgal applications: Prospects and challenges. <i>Bioresource Technology</i> , 2019, 291, 121890.	4.8	81
827	Different Nutritional Histories Affect the Susceptibility of Algae to Grazing. <i>Journal of Phycology</i> , 2019, 55, 997-1010.	1.0	2
828	Provision of carbon skeleton for lipid synthesis from the breakdown of intracellular protein and soluble sugar in <i>Phaeodactylum tricornutum</i> under high CO ₂ . <i>BMC Biotechnology</i> , 2019, 19, 53.	1.7	11
829	Advances in microalgal research and engineering development. <i>Current Opinion in Biotechnology</i> , 2019, 59, 157-164.	3.3	73
830	Cloning, identification and functional characterization of two cytochrome P450 carotenoids hydroxylases from the diatom <i>Phaeodactylum tricornutum</i> . <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 755-765.	1.1	14
831	Phenomics reveals a novel putative chloroplast fatty acid transporter in the marine diatom <i>Skeletonema marinoi</i> involved in temperature acclimation. <i>Scientific Reports</i> , 2019, 9, 15143.	1.6	5
832	Taxon-rich Multigene Phylogenetic Analyses Resolve the Phylogenetic Relationship Among Deep-branching Stramenopiles. <i>Protist</i> , 2019, 170, 125682.	0.6	15
835	An investigation of the possible methods and potential benefits of de novo cloning of <i>Nannochloropsis oceanica</i> genes. <i>Marine Life Science and Technology</i> , 2019, 1, 22-27.	1.8	4
836	Friends With Benefits: Exploring the Phycosphere of the Marine Diatom <i>Skeletonema marinoi</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 1828.	1.5	39
837	Multifunctionalizing the marine diatom <i>Phaeodactylum tricornutum</i> for sustainable co-production of omega-3 long chain polyunsaturated fatty acids and recombinant phytase. <i>Scientific Reports</i> , 2019, 9, 11444.	1.6	35
838	Loss of ALBINO3b Insertase Results in Truncated Light-Harvesting Antenna in Diatoms. <i>Plant Physiology</i> , 2019, 181, 1257-1276.	2.3	25
839	Non-Conventional Metal Ion Cofactor Requirement of Dinoflagellate Alkaline Phosphatase and Translational Regulation by Phosphorus Limitation. <i>Microorganisms</i> , 2019, 7, 232.	1.6	8
840	Lhcx proteins provide photoprotection via thermal dissipation of absorbed light in the diatom <i>Phaeodactylum tricornutum</i> . <i>Nature Communications</i> , 2019, 10, 4167.	5.8	84
841	De novo transcriptome assembly and analysis of the freshwater araphid diatom <i>Fragilaria radians</i> , Lake Baikal. <i>Scientific Data</i> , 2019, 6, 183.	2.4	14
842	Evolution and regulation of nitrogen flux through compartmentalized metabolic networks in a marine diatom. <i>Nature Communications</i> , 2019, 10, 4552.	5.8	116
843	The lipid biochemistry of eukaryotic algae. <i>Progress in Lipid Research</i> , 2019, 74, 31-68.	5.3	258
844	A Potential Role for Epigenetic Processes in the Acclimation Response to Elevated pCO ₂ in the Model Diatom <i>Phaeodactylum tricornutum</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 3342.	1.5	39
845	Biosynthesis of Triacylglycerol Molecules with a Tailored PUFA Profile in Industrial Microalgae. <i>Molecular Plant</i> , 2019, 12, 474-488.	3.9	73

#	ARTICLE	IF	CITATIONS
846	Biological aspects and biotechnological potential of marine diatoms in relation to different light regimens. <i>World Journal of Microbiology and Biotechnology</i> , 2019, 35, 35.	1.7	13
847	Molecular mechanisms of temperature acclimation and adaptation in marine diatoms. <i>ISME Journal</i> , 2019, 13, 2415-2425.	4.4	48
848	The Biomineralization Proteome: Protein Complexity for a Complex Bioceramic Assembly Process. <i>Proteomics</i> , 2019, 19, e1900036.	1.3	36
849	First Estimation of the Spontaneous Mutation Rate in Diatoms. <i>Genome Biology and Evolution</i> , 2019, 11, 1829-1837.	1.1	54
850	Fucoxanthin, A Carotenoid Derived from <i>Phaeodactylum tricornutum</i> Exerts Antiproliferative and Antioxidant Activities In Vitro. <i>Antioxidants</i> , 2019, 8, 183.	2.2	84
851	bHLH-PAS protein RITMO1 regulates diel biological rhythms in the marine diatom <i>Phaeodactylum tricornutum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13137-13142.	3.3	49
852	Characterization of a GDP-Fucose Transporter and a Fucosyltransferase Involved in the Fucosylation of Glycoproteins in the Diatom <i>Phaeodactylum tricornutum</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 610.	1.7	14
853	<i>Phaeodactylum tricornutum</i> microalgae as a rich source of omega-3 oil: Progress in lipid induction techniques towards industry adoption. <i>Food Chemistry</i> , 2019, 297, 124937.	4.2	41
854	Host selection and stochastic effects influence bacterial community assembly on the microalgal phycosphere. <i>Algal Research</i> , 2019, 40, 101489.	2.4	58
855	Metabolic Consequences of Cobalamin Scarcity in the Diatom <i>Thalassiosira pseudonana</i> as Revealed Through Metabolomics. <i>Protist</i> , 2019, 170, 328-348.	0.6	33
856	Algal Blooms. , 2019, , 61-61.		2
857	Betaine lipid and neutral lipid production under nitrogen or phosphorus limitation in the marine microalga <i>Tisochrysis lutea</i> (Haptophyta). <i>Algal Research</i> , 2019, 40, 101506.	2.4	40
858	Marine Natural Products from Microalgae: An -Omics Overview. <i>Marine Drugs</i> , 2019, 17, 269.	2.2	69
859	The 40S Ribosomal Protein S6 Response to Blue Light by Interaction with SJAUREO in <i>Saccharina japonica</i> . <i>International Journal of Molecular Sciences</i> , 2019, 20, 2414.	1.8	5
860	Alternative Mechanisms for Fast Na ⁺ /Ca ²⁺ Signaling in Eukaryotes via a Novel Class of Single-Domain Voltage-Gated Channels. <i>Current Biology</i> , 2019, 29, 1503-1511.e6.	1.8	46
861	Effects of excess light energy on excitation-energy dynamics in a pennate diatom <i>Phaeodactylum tricornutum</i> . <i>Photosynthesis Research</i> , 2019, 141, 355-365.	1.6	17
862	Phytosterol biosynthesis and production by diatoms (Bacillariophyceae). <i>Phytochemistry</i> , 2019, 163, 46-57.	1.4	31
863	Nitrogen and phosphorus limitations induce carbon partitioning and membrane lipid remodelling in the marine diatom <i>Phaeodactylum tricornutum</i> . <i>European Journal of Phycology</i> , 2019, 54, 342-358.	0.9	31

#	ARTICLE	IF	CITATIONS
864	Dark metabolism: a molecular insight into how the Antarctic sea-ice diatom <i>Fragilariopsis cylindrus</i> survives long-term darkness. <i>New Phytologist</i> , 2019, 223, 675-691.	3.5	40
865	A new widespread subclass of carbonic anhydrase in marine phytoplankton. <i>ISME Journal</i> , 2019, 13, 2094-2106.	4.4	165
866	Comparative and Functional Algal Genomics. <i>Annual Review of Plant Biology</i> , 2019, 70, 605-638.	8.6	76
867	Genome-Wide Comparative Analyses of Polyadenylation Signals in Eukaryotes Suggest a Possible Origin of the AAUAAA Signal. <i>International Journal of Molecular Sciences</i> , 2019, 20, 958.	1.8	12
868	Application of the CRISPR/Cas system for genome editing in microalgae. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3239-3248.	1.7	37
869	Towards the development of a new generation of whole-cell bioreporters to sense iron bioavailability in oceanic systems—learning from the case of <i>Synechococcus</i> sp. PCC7002 iron bioreporter. <i>Journal of Applied Microbiology</i> , 2019, 127, 1291-1304.	1.4	7
870	Evolution of Mutator transposable elements across eukaryotic diversity. <i>Mobile DNA</i> , 2019, 10, 12.	1.3	32
871	Uncovering the hidden world of the Molecular Life of Diatoms. <i>Perspectives in Phycology</i> , 2019, 6, 51-58.	1.9	0
872	Industrial production of <i>Phaeodactylum tricornutum</i> for CO ₂ mitigation: biomass productivity and photosynthetic efficiency using photobioreactors of different volumes. <i>Journal of Applied Phycology</i> , 2019, 31, 2187-2196.	1.5	15
873	A strategy to complement PtAUREO1a in TALEN knockout strains of <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2019, 39, 101469.	2.4	8
874	<i>Skeletonema marinoi</i> as a new genetic model for marine chain-forming diatoms. <i>Scientific Reports</i> , 2019, 9, 5391.	1.6	26
875	Transcriptomic response of the benthic freshwater diatom <i>Nitzschia palea</i> exposed to Few Layer Graphene. <i>Environmental Science: Nano</i> , 2019, 6, 1363-1381.	2.2	7
876	Evolution and function of light-harvesting antenna in oxygenic photosynthesis. <i>Advances in Botanical Research</i> , 2019, , 247-293.	0.5	10
877	Structural basis for blue-green light harvesting and energy dissipation in diatoms. <i>Science</i> , 2019, 363, .	6.0	166
878	Fucoxanthin-Chlorophyll Protein Complexes of the Centric Diatom <i>Cyclotella Meneghiniana</i> Differ in Lhcx1 and Lhcx6_1 Content. <i>Plant Physiology</i> , 2019, 179, 1779-1795.	2.3	24
879	Diatom genes originating from red and green algae: Implications for the secondary endosymbiosis models. <i>Marine Genomics</i> , 2019, 45, 72-78.	0.4	14
880	Challenging the workhorse: Comparative analysis of eukaryotic microorganisms for expressing monoclonal antibodies. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1449-1462.	1.7	23
881	The future of genetic engineering to provide essential dietary nutrients and improve growth performance in aquaculture: Advantages and challenges. <i>Journal of the World Aquaculture Society</i> , 2019, 50, 490-509.	1.2	44

#	ARTICLE	IF	CITATIONS
882	Nitrate and ammonium fluxes to diatoms and dinoflagellates at a single cell level in mixed field communities in the sea. <i>Scientific Reports</i> , 2019, 9, 1424.	1.6	33
883	Effect of phosphorus and growth phases on the transcription levels of EPA biosynthesis genes in the diatom <i>Phaeodactylum tricornutum</i> . <i>Revista Brasileira De Botanica</i> , 2019, 42, 13-22.	0.5	7
884	Quantitative Analysis of Tip Growth, Phototropic Responses, and Other Blue Light-Dependent Photoresponses of <i>Vaucheria</i> . <i>Methods in Molecular Biology</i> , 2019, 1924, 83-120.	0.4	1
885	Reduction-dependent siderophore assimilation in a model pennate diatom. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23609-23617.	3.3	51
886	In vitro fucoxanthin production by the <i>Phaeodactylum tricornutum</i> diatom. <i>Studies in Natural Products Chemistry</i> , 2019, 63, 211-242.	0.8	9
887	Nucleotide Transport and Metabolism in Diatoms. <i>Biomolecules</i> , 2019, 9, 761.	1.8	6
888	Evolution of Codon Usage Bias in Diatoms. <i>Genes</i> , 2019, 10, 894.	1.0	20
889	RSH enzyme diversity for (p)ppGpp metabolism in <i>Phaeodactylum tricornutum</i> and other diatoms. <i>Scientific Reports</i> , 2019, 9, 17682.	1.6	15
890	Downregulation of mitochondrial alternative oxidase affects chloroplast function, redox status and stress response in a marine diatom. <i>New Phytologist</i> , 2019, 221, 1303-1316.	3.5	51
891	¹⁵ N photo-CIDNP MAS NMR on both photosystems and magnetic field-dependent ¹³ C photo-CIDNP MAS NMR in photosystem II of the diatom <i>Phaeodactylum tricornutum</i> . <i>Photosynthesis Research</i> , 2019, 140, 151-171.	1.6	13
892	Knock-Down of a <i>ligIV</i> Homologue Enables DNA Integration <i>via</i> Homologous Recombination in the Marine Diatom <i>Phaeodactylum tricornutum</i> . <i>ACS Synthetic Biology</i> , 2019, 8, 57-69.	1.9	13
893	Auxin Function in the Brown Alga <i>Dictyota dichotoma</i> . <i>Plant Physiology</i> , 2019, 179, 280-299.	2.3	24
894	Eukaryotic microalgae as hosts for light-driven heterologous isoprenoid production. <i>Planta</i> , 2019, 249, 155-180.	1.6	72
895	Influence of N, P, Fe Nutrients Availability on Nitrogen Metabolism- Relevant Genes Expression in <i>Skeletonema marinoi</i> . <i>Journal of Ocean University of China</i> , 2019, 18, 239-252.	0.6	5
896	The architecture of lipid droplets in the diatom <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2019, 38, 101415.	2.4	52
897	Cross-compartment metabolic coupling enables flexible photoprotective mechanisms in the diatom <i>Phaeodactylum tricornutum</i> . <i>New Phytologist</i> , 2019, 222, 1364-1379.	3.5	54
898	The golden paradox – a new heterokont lineage with chloroplasts surrounded by two membranes. <i>Journal of Phycology</i> , 2019, 55, 257-278.	1.0	18
899	The complete chloroplast and mitochondrial genomes of the diatom <i>Nitzschia palea</i> (Bacillariophyceae) demonstrate high sequence similarity to the endosymbiont organelles of the diatom <i>Durinskia baltica</i> . <i>Journal of Phycology</i> , 2019, 55, 352-364.	1.0	20

#	ARTICLE	IF	CITATIONS
900	Patatin-like lipolytic acyl hydrolases and galactolipid metabolism in marine diatoms of the genus <i>Pseudo-nitzschia</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 181-190.	1.2	13
901	The influences of phytohormones on triacylglycerol accumulation in an oleaginous marine diatom <i>Phaeodactylum tricornutum</i> . <i>Journal of Applied Phycology</i> , 2019, 31, 1009-1019.	1.5	9
902	Comparative characterization of putative chitin deacetylases from <i>Phaeodactylum tricornutum</i> and <i>Thalassiosira pseudonana</i> highlights the potential for distinct chitin-based metabolic processes in diatoms. <i>New Phytologist</i> , 2019, 221, 1890-1905.	3.5	21
903	Diversity and Evolution of Sensor Histidine Kinases in Eukaryotes. <i>Genome Biology and Evolution</i> , 2019, 11, 86-108.	1.1	28
904	High single-cell diversity in carbon and nitrogen assimilations by a chain-forming diatom across a century. <i>Environmental Microbiology</i> , 2019, 21, 142-151.	1.8	18
905	Comparative analysis of the mitochondrial genomes of six newly sequenced diatoms reveals group II introns in the barcoding region of <i>cox1</i> . <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2019, 30, 43-51.	0.7	24
906	Advances and challenges in genetic engineering of microalgae. <i>Reviews in Aquaculture</i> , 2020, 12, 365-381.	4.6	51
907	Light harvesting complexes in chlorophyll <i>c</i> -containing algae. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148027.	0.5	56
908	A genomics approach reveals the global genetic polymorphism, structure, and functional diversity of ten accessions of the marine model diatom <i>Phaeodactylum tricornutum</i> . <i>ISME Journal</i> , 2020, 14, 347-363.	4.4	50
909	Relationship between acyl-lipid and sterol metabolisms in diatoms. <i>Biochimie</i> , 2020, 169, 3-11.	1.3	24
910	Spent yeast as an efficient medium supplement for fucoxanthin and eicosapentaenoic acid (EPA) production by <i>Phaeodactylum tricornutum</i> . <i>Journal of Applied Phycology</i> , 2020, 32, 59-69.	1.5	12
911	Large scale maximum average power multiple inference on time-course count data with application to RNA-seq analysis. <i>Biometrics</i> , 2020, 76, 9-22.	0.8	6
912	The Myb-like transcription factor phosphorus starvation response (PtPSR) controls conditional P acquisition and remodelling in marine microalgae. <i>New Phytologist</i> , 2020, 225, 2380-2395.	3.5	38
913	Transgenic microalgae as bioreactors. <i>Critical Reviews in Food Science and Nutrition</i> , 2020, 60, 3195-3213.	5.4	18
914	A high-capacity gene stacking toolkit for the oleaginous microalga, <i>Nannochloropsis oceanica</i> CCMP1779. <i>Algal Research</i> , 2020, 45, 101664.	2.4	34
915	Insights into the Light Response of <i>Skeletonema marinoi</i> : Involvement of Ovothiol. <i>Marine Drugs</i> , 2020, 18, 477.	2.2	15
916	Growth promoting studies on co-culturing <i>Nannochloropsis oceanica</i> with <i>Halomonas aquamarina</i> actively enhance the algal biomass and lipid production. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 29, 101790.	1.5	8
917	GPCR Genes as Activators of Surface Colonization Pathways in a Model Marine Diatom. <i>IScience</i> , 2020, 23, 101424.	1.9	7

#	ARTICLE	IF	CITATIONS
918	Economic evaluation of up- and downstream scenarios for the co-production of fucoxanthin and eicosapentaenoic acid with <i>P. tricornutum</i> using flat-panel airlift photobioreactors with artificial light. <i>Algal Research</i> , 2020, 51, 102078.	2.4	14
919	Horizontal Gene Transfer in Eukaryotes: Not if, but How Much?. <i>Trends in Genetics</i> , 2020, 36, 915-925.	2.9	83
920	Comparative analyses of saprotrophy in <i>Salisapilia sapeloensis</i> and diverse plant pathogenic oomycetes reveal lifestyle-specific gene expression. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	4
921	Comprehensive and Functional Analysis of Horizontal Gene Transfer Events in Diatoms. <i>Molecular Biology and Evolution</i> , 2020, 37, 3243-3257.	3.5	28
922	Iron uptake proteins in algae and the role of Iron Starvation-Induced Proteins (ISIPs). <i>European Journal of Phycology</i> , 2020, 55, 339-360.	0.9	38
923	Comparative Proteomic Analysis Reveals New Insights Into the Common and Specific Metabolic Regulation of the Diatom <i>Skeletonema dohrnii</i> to the Silicate and Temperature Availability. <i>Frontiers in Plant Science</i> , 2020, 11, 578915.	1.7	5
924	PhaeoNet: A Holistic RNAseq-Based Portrait of Transcriptional Coordination in the Model Diatom <i>Phaeodactylum tricornutum</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 590949.	1.7	26
925	The Aureochrome Photoreceptor PtAUREO1a Is a Highly Effective Blue Light Switch in Diatoms. <i>IScience</i> , 2020, 23, 101730.	1.9	14
926	An Insight into the Algal Evolution and Genomics. <i>Biomolecules</i> , 2020, 10, 1524.	1.8	7
927	ERK1/2 Pathway Is Involved in the Enhancement of Fatty Acids from <i>Phaeodactylum tricornutum</i> Extract (PTE) on Hair Follicle Cell Proliferation. <i>BioMed Research International</i> , 2020, 2020, 1-11.	0.9	4
928	Enhanced pyruvate metabolism in plastids by overexpression of putative plastidial pyruvate transporter in <i>Phaeodactylum tricornutum</i> . <i>Biotechnology for Biofuels</i> , 2020, 13, 120.	6.2	20
929	Diatoms as cell factories for high-value products: chrysolaminarin, eicosapentaenoic acid, and fucoxanthin. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 993-1009.	5.1	70
930	Regulation of Carbon Metabolism by Environmental Conditions: A Perspective From Diatoms and Other Chromalveolates. <i>Frontiers in Plant Science</i> , 2020, 11, 1033.	1.7	19
931	Improved Reference Genome for <i>Cyclotella cryptica</i> CCMP332, a Model for Cell Wall Morphogenesis, Salinity Adaptation, and Lipid Production in Diatoms (Bacillariophyta). <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 2965-2974.	0.8	14
932	Rapid method for generating designer algal mitochondrial genomes. <i>Algal Research</i> , 2020, 50, 102014.	2.4	15
933	Biodiesel from microalgae. , 2020, , 329-371.		2
934	High Resolution Proteome of Lipid Droplets Isolated from the Pennate Diatom <i>Phaeodactylum tricornutum</i> (<i>Bacillariophyceae</i>) Strain pt4 provides mechanistic insights into complex intracellular coordination during nitrogen deprivation. <i>Journal of Phycology</i> , 2020, 56, 1642-1663.	1.0	15
935	Marine heat waves alter gene expression of key enzymes of membrane and storage lipids metabolism in <i>Phaeodactylum tricornutum</i> . <i>Plant Physiology and Biochemistry</i> , 2020, 156, 357-368.	2.8	11

#	ARTICLE	IF	CITATIONS
936	Structural basis for energy transfer in a huge diatom PSI-FCPI supercomplex. <i>Nature Communications</i> , 2020, 11, 5081.	5.8	54
938	Engineering the Unicellular Alga <i>Phaeodactylum tricornutum</i> for Enhancing Carotenoid Production. <i>Antioxidants</i> , 2020, 9, 757.	2.2	30
939	Lateral Gene Transfer Mechanisms and Pan-genomes in Eukaryotes. <i>Trends in Parasitology</i> , 2020, 36, 927-941.	1.5	41
940	Nucleotide substitution rates of diatom plastid encoded protein genes are positively correlated with genome architecture. <i>Scientific Reports</i> , 2020, 10, 14358.	1.6	7
941	The Absence of C-5 DNA Methylation in <i>Leishmania donovani</i> Allows DNA Enrichment from Complex Samples. <i>Microorganisms</i> , 2020, 8, 1252.	1.6	9
942	Biochemical Characterization and Crystal Structure of a Novel NAD ⁺ -Dependent Isocitrate Dehydrogenase from <i>Phaeodactylum tricornutum</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 5915.	1.8	5
943	Fluoxetine Arrests Growth of the Model Diatom <i>Phaeodactylum tricornutum</i> by Increasing Oxidative Stress and Altering Energetic and Lipid Metabolism. <i>Frontiers in Microbiology</i> , 2020, 11, 1803.	1.5	37
944	Effects of Propranolol on Growth, Lipids and Energy Metabolism and Oxidative Stress Response of <i>Phaeodactylum tricornutum</i> . <i>Biology</i> , 2020, 9, 478.	1.3	18
945	Overexpression of Key Sterol Pathway Enzymes in Two Model Marine Diatoms Alters Sterol Profiles in <i>Phaeodactylum tricornutum</i> . <i>Pharmaceuticals</i> , 2020, 13, 481.	1.7	12
946	Amino Acid Catabolism During Nitrogen Limitation in <i>Phaeodactylum tricornutum</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 589026.	1.7	14
947	Strategy for the Removal of Satellite Bacteria from the Cultivated Diatom. <i>Diversity</i> , 2020, 12, 382.	0.7	1
948	Exploration of marine phytoplankton: from their historical appreciation to the omics era. <i>Journal of Plankton Research</i> , 0, , .	0.8	2
949	Prediction and Characterization of RXLR Effectors in <i>Pythium</i> Species. <i>Molecular Plant-Microbe Interactions</i> , 2020, 33, 1046-1058.	1.4	34
950	Structural basis for assembly and function of a diatom photosystem I-light-harvesting supercomplex. <i>Nature Communications</i> , 2020, 11, 2481.	5.8	56
951	Silica Nanostructures Produced Using Diatom Peptides with Designed Post-translational Modifications. <i>Advanced Functional Materials</i> , 2020, 30, 2000849.	7.8	23
952	Light Regulation of LHCX Genes in the Benthic Diatom <i>Seminavis robusta</i> . <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	12
953	The unique sterol biosynthesis pathway of three model diatoms consists of a conserved core and diversified endpoints. <i>Algal Research</i> , 2020, 48, 101902.	2.4	13
954	Genome-enabled phylogenetic and functional reconstruction of an araphid pennate diatom <i>Plagiostriata</i> sp. CCMP470, previously assigned as a radial centric diatom, and its bacterial commensal. <i>Scientific Reports</i> , 2020, 10, 9449.	1.6	25

#	ARTICLE	IF	CITATIONS
955	Exploration of space to achieve scientific breakthroughs. <i>Biotechnology Advances</i> , 2020, 43, 107572.	6.0	21
956	Comparative Gene Analysis Focused on Silica Cell Wall Formation: Identification of Diatom-Specific SET Domain Protein Methyltransferases. <i>Marine Biotechnology</i> , 2020, 22, 551-563.	1.1	7
957	Mobilization and Cellular Distribution of Phosphate in the Diatom <i>Phaeodactylum tricornutum</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 579.	1.7	27
958	Involvement of green technology in microalgal biodiesel production. <i>Reviews on Environmental Health</i> , 2020, 35, 173-188.	1.1	14
960	Rapid and precise genome editing in a marine diatom, <i>Thalassiosira pseudonana</i> by Cas9 nickase (D10A). <i>Algal Research</i> , 2020, 47, 101855.	2.4	18
961	Morphological and biochemical changes in <i>Phaeodactylum tricornutum</i> triggered by culture media: Implications for industrial exploitation. <i>Algal Research</i> , 2020, 47, 101822.	2.4	18
962	In Vitro and In Vivo Studies on Hexane Fraction of <i>Nitzschia palea</i> , a Freshwater Diatom for Oxidative Damage Protective and Anti-inflammatory Response. <i>Revista Brasileira De Farmacognosia</i> , 2020, 30, 189-201.	0.6	11
963	Wealth from waste: Diatoms as tools for phycoremediation of wastewater and for obtaining value from the biomass. <i>Science of the Total Environment</i> , 2020, 724, 137960.	3.9	84
964	Stepwise Biogenesis of Subpopulations of Lipid Droplets in Nitrogen Starved <i>Phaeodactylum tricornutum</i> Cells. <i>Frontiers in Plant Science</i> , 2020, 11, 48.	1.7	16
965	Novel Protocol for Estimating Viruses Specifically Infecting the Marine Planktonic Diatoms. <i>Diversity</i> , 2020, 12, 225.	0.7	4
966	Improving Fucoxanthin Production in Mixotrophic Culture of Marine Diatom <i>Phaeodactylum tricornutum</i> by LED Light Shift and Nitrogen Supplementation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 820.	2.0	54
967	Multiple Roles of Diatom-Derived Oxylipins within Marine Environments and Their Potential Biotechnological Applications. <i>Marine Drugs</i> , 2020, 18, 342.	2.2	22
968	Comparative genomics of four strains of the edible brown alga, <i>Cladosiphon okamuranus</i> . <i>BMC Genomics</i> , 2020, 21, 422.	1.2	9
969	The <i>Seminavis robusta</i> genome provides insights into the evolutionary adaptations of benthic diatoms. <i>Nature Communications</i> , 2020, 11, 3320.	5.8	55
970	Sexual reproduction potential implied by functional analysis of SPO11 in <i>Phaeodactylum tricornutum</i> . <i>Gene</i> , 2020, 757, 144929.	1.0	5
971	Absolute Quantification of the Central Carbon Metabolome in Eight Commonly Applied Prokaryotic and Eukaryotic Model Systems. <i>Metabolites</i> , 2020, 10, 74.	1.3	39
972	A Critical Review of Genome Editing and Synthetic Biology Applications in Metabolic Engineering of Microalgae and Cyanobacteria. <i>Biotechnology Journal</i> , 2020, 15, e1900228.	1.8	62
973	A phosphorescent iridium complex as a probe for diatom cells' viability. <i>MRS Advances</i> , 2020, 5, 935-941.	0.5	2

#	ARTICLE	IF	CITATIONS
974	First evidence of ovothiol biosynthesis in marine diatoms. <i>Free Radical Biology and Medicine</i> , 2020, 152, 680-688.	1.3	19
975	Microalgal Hydrogen Production. <i>Small Methods</i> , 2020, 4, 1900514.	4.6	48
976	Effects of elutriates from contaminated coastal sediments on different life cycle phases of planktonic diatoms. <i>Marine Environmental Research</i> , 2020, 155, 104890.	1.1	6
977	Potential and Challenges of Improving Photosynthesis in Algae. <i>Plants</i> , 2020, 9, 67.	1.6	72
978	The possibility of using marine diatom-infecting viral promoters for the engineering of marine diatoms. <i>Plant Science</i> , 2020, 296, 110475.	1.7	7
979	Variation in prostaglandin metabolism during growth of the diatom <i>Thalassiosira rotula</i> . <i>Scientific Reports</i> , 2020, 10, 5374.	1.6	13
980	The brown clock: circadian rhythms in stramenopiles. <i>Physiologia Plantarum</i> , 2020, 169, 430-441.	2.6	10
981	Insights on the Functions and Ecophysiological Relevance of the Diverse Carbonic Anhydrases in Microalgae. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2922.	1.8	51
982	Diatom Molecular Research Comes of Age: Model Species for Studying Phytoplankton Biology and Diversity. <i>Plant Cell</i> , 2020, 32, 547-572.	3.1	94
983	The scientometric analysis of the research on the algal structures. , 2020, , 41-60.		0
984	Photosynthesis in diatoms. , 2020, , 217-229.		2
985	Asparagine-based production of hydrogen peroxide triggers cell death in the diatom <i>Phaeodactylum tricorutum</i> . <i>Botany Letters</i> , 2021, 168, 6-17.	0.7	5
986	Diatoms recovery from wastewater: Overview from an ecological and economic perspective. <i>Journal of Water Process Engineering</i> , 2021, 39, 101705.	2.6	27
987	Genome wide natural variation of H3K27me3 selectively marks genes predicted to be important for cell differentiation in <i>Phaeodactylum tricorutum</i> . <i>New Phytologist</i> , 2021, 229, 3208-3220.	3.5	19
988	The mechanism of regulation of photosystem I cross-section in the pennate diatom <i>Phaeodactylum tricorutum</i> . <i>Journal of Experimental Botany</i> , 2021, 72, 561-575.	2.4	1
989	PhycoCosm, a comparative algal genomics resource. <i>Nucleic Acids Research</i> , 2021, 49, D1004-D1011.	6.5	98
991	Phylogenomic fingerprinting of tempo and functions of horizontal gene transfer within ochrophytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	37
992	Regulation of <i>Phaeodactylum</i> plastid gene transcription by redox, light, and circadian signals. <i>Photosynthesis Research</i> , 2021, 147, 317-328.	1.6	4

#	ARTICLE	IF	CITATIONS
993	An optimised method for intact nuclei isolation from diatoms. <i>Scientific Reports</i> , 2021, 11, 1681.	1.6	7
994	Quantitative Proteomic Profiling of Marine Diatom <i>Skeletonema dohrnii</i> in Response to Temperature and Silicate Induced Environmental Stress. <i>Frontiers in Microbiology</i> , 2020, 11, 554832.	1.5	3
995	Lipid Pathway Databases with a Focus on. <i>Methods in Molecular Biology</i> , 2021, 2295, 455-468.	0.4	0
996	Chlorophyll Species and Their Functions in the Photosynthetic Energy Conversion. <i>Advances in Photosynthesis and Respiration</i> , 2021, , 133-161.	1.0	1
997	Diatoms Biotechnology: Various Industrial Applications for a Greener Tomorrow. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	30
998	Bacterial diketopiperazines stimulate diatom growth and lipid accumulation. <i>Plant Physiology</i> , 2021, 186, 1159-1170.	2.3	11
999	Gamma carbonic anhydrases are subunits of the mitochondrial complex I of diatoms. <i>Molecular Microbiology</i> , 2021, 116, 109-125.	1.2	11
1000	Enhancement of excitation-energy quenching in fucoxanthin chlorophyll a/c-binding proteins isolated from a diatom <i>Phaeodactylum tricornutum</i> upon excess-light illumination. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148350.	0.5	10
1001	The <i>Ulva prolifera</i> genome reveals the mechanism of green tides. <i>Journal of Oceanology and Limnology</i> , 2021, 39, 1458-1470.	0.6	10
1002	Proximity proteomics in a marine diatom reveals a putative cell surface-to-chloroplast iron trafficking pathway. <i>ELife</i> , 2021, 10, .	2.8	18
1003	Characterisation of novel regulatory sequences compatible with modular assembly in the diatom <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2021, 53, 102159.	2.4	11
1004	Development of an absolute quantification method for ribosomal RNA gene copy numbers per eukaryotic single cell by digital PCR. <i>Harmful Algae</i> , 2021, 103, 102008.	2.2	20
1005	Iron metabolism strategies in diatoms. <i>Journal of Experimental Botany</i> , 2021, 72, 2165-2180.	2.4	26
1006	Diatom Ecophysiology: Crossing Signals on the Road to Recovery from Nutrient Deprivation. <i>Current Biology</i> , 2021, 31, R253-R254.	1.8	3
1007	Compounds derived from bacteria enhance marine diatom growth. <i>Plant Physiology</i> , 2021, 186, 827-828.	2.3	2
1008	A multivariate approach to chlorophyll a fluorescence data for trace element ecotoxicological trials using a model marine diatom. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 250, 107170.	0.9	9
1009	ppGpp influences protein protection, growth and photosynthesis in <i>Phaeodactylum tricornutum</i> . <i>New Phytologist</i> , 2021, 230, 1517-1532.	3.5	14
1010	Structural Mutations in the Organellar Genomes of <i>Valeriana sambucifolia</i> f. <i>dageletiana</i> (Nakai. ex) Tj ETQq1 1 0.784314 rgBT /Overl 3770.	1.8	3

#	ARTICLE	IF	CITATIONS
1011	Carbon Dioxide Concentration Mechanisms in Natural Populations of Marine Diatoms: Insights From Tara Oceans. <i>Frontiers in Plant Science</i> , 2021, 12, 657821.	1.7	26
1012	Saturation of thylakoid-associated fatty acids facilitates bioenergetic coupling in a marine diatom allowing for thermal acclimation. <i>Global Change Biology</i> , 2021, 27, 3133-3144.	4.2	5
1013	Rapid Sorting of Fucoxanthin-Producing <i>Phaeodactylum tricornutum</i> Mutants by Flow Cytometry. <i>Marine Drugs</i> , 2021, 19, 228.	2.2	12
1014	Simultaneous knockout of multiple <i>LHCF</i> genes using single sgRNAs and engineering of a high-fidelity Cas9 for precise genome editing in marine algae. <i>Plant Biotechnology Journal</i> , 2021, 19, 1658-1669.	4.1	19
1015	Photosynthesis acclimation under severely fluctuating light conditions allows faster growth of diatoms compared with dinoflagellates. <i>BMC Plant Biology</i> , 2021, 21, 164.	1.6	11
1016	Integrative omics identification, evolutionary and structural analysis of low affinity nitrate transporters in diatoms, diNPFs. <i>Open Biology</i> , 2021, 11, 200395.	1.5	8
1017	New paradigm in diatom omics and genetic manipulation. <i>Bioresource Technology</i> , 2021, 325, 124708.	4.8	13
1018	Comparative Structural and Functional Analyses of the Fusiform, Oval, and Triradiate Morphotypes of <i>Phaeodactylum tricornutum</i> Pt3 Strain. <i>Frontiers in Plant Science</i> , 2021, 12, 638181.	1.7	9
1019	Unlocking the Health Potential of Microalgae as Sustainable Sources of Bioactive Compounds. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4383.	1.8	43
1020	The Unicellular Red Alga <i>Cyanidioschyzon merolae</i> The Simplest Model of a Photosynthetic Eukaryote. <i>Plant and Cell Physiology</i> , 2021, 62, 926-941.	1.5	24
1021	Plastidial acyl carrier protein $\Delta 9$ desaturase modulates eicosapentaenoic acid biosynthesis and triacylglycerol accumulation in <i>Phaeodactylum tricornutum</i> . <i>Plant Journal</i> , 2021, 106, 1247-1259.	2.8	18
1022	Quantitative label-free proteomics and biochemical analysis of <i>Phaeodactylum tricornutum</i> cultivation on dairy manure wastewater. <i>Journal of Applied Phycology</i> , 2021, 33, 2105-2121.	1.5	10
1023	Re-examination of two diatom reference genomes using long-read sequencing. <i>BMC Genomics</i> , 2021, 22, 379.	1.2	22
1024	Molecular cloning and functional characterization of CvLCYE, a key enzyme in lutein synthesis pathway in <i>Chlorella vulgaris</i> . <i>Algal Research</i> , 2021, 55, 102246.	2.4	15
1026	Diel Transcriptional Oscillations of a Plastid Antiporter Reflect Increased Resilience of <i>Thalassiosira pseudonana</i> in Elevated CO ₂ . <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	4
1027	Mini-Review: Potential of Diatom-Derived Silica for Biomedical Applications. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4533.	1.3	14
1028	SPX-related genes regulate phosphorus homeostasis in the marine phytoplankton, <i>Phaeodactylum tricornutum</i> . <i>Communications Biology</i> , 2021, 4, 797.	2.0	17
1029	Droplet-based microfluidic screening and sorting of microalgal populations for strain engineering applications. <i>Algal Research</i> , 2021, 56, 102293.	2.4	23

#	ARTICLE	IF	CITATIONS
1030	The fine-tuning of NPQ in diatoms relies on the regulation of both xanthophyll cycle enzymes. <i>Scientific Reports</i> , 2021, 11, 12750.	1.6	20
1031	Algal cellulose, production and potential use in plastics: Challenges and opportunities. <i>Algal Research</i> , 2021, 56, 102288.	2.4	78
1032	Predicting Lifestyle from Positive Selection Data and Genome Properties in Oomycetes. <i>Pathogens</i> , 2021, 10, 807.	1.2	7
1033	Transcriptomics and Metabolomics Analyses Provide Novel Insights into Glucose-Induced Trophic Transition of the Marine Diatom <i>Nitzschia laevis</i> . <i>Marine Drugs</i> , 2021, 19, 426.	2.2	5
1034	Impact of organic carbon acquisition on growth and functional biomolecule production in diatoms. <i>Microbial Cell Factories</i> , 2021, 20, 135.	1.9	38
1035	Sulfoquinovose metabolism in marine algae. <i>Botanica Marina</i> , 2021, 64, 301-312.	0.6	4
1036	Intron-mediated enhancement of transgene expression in the oleaginous diatom <i>Fistulifera solaris</i> towards bisabolene production. <i>Algal Research</i> , 2021, 57, 102345.	2.4	7
1037	Dynamics of Free-Living and Attached Bacterial Assemblages in <i>Skeletonema</i> sp. Diatom Cultures at Elevated Temperatures. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	2
1040	Full-Length Transcriptome of <i>Thalassiosira weissflogii</i> as a Reference Resource and Mining of Chitin-Related Genes. <i>Marine Drugs</i> , 2021, 19, 392.	2.2	9
1041	Two class II CPD photolyases, PiPhr1 and PiPhr2, with CPD repair activity from the Antarctic diatom <i>Phaeodactylum tricornutum</i> ICE-H. <i>3 Biotech</i> , 2021, 11, 377.	1.1	6
1042	Does growth rate affect diatom compositional response to temperature?. <i>Phycologia</i> , 2021, 60, 462-472.	0.6	1
1043	Stramenopile microalgae as "green biofactories" for recombinant protein production. <i>World Journal of Microbiology and Biotechnology</i> , 2021, 37, 163.	1.7	6
1045	Mitotic recombination between homologous chromosomes drives genomic diversity in diatoms. <i>Current Biology</i> , 2021, 31, 3221-3232.e9.	1.8	29
1046	Diatoms and Plants Acyl-CoA:lysophosphatidylcholine Acyltransferases (LPCATs) Exhibit Diverse Substrate Specificity and Biochemical Properties. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9056.	1.8	6
1047	Organellar Introns in Fungi, Algae, and Plants. <i>Cells</i> , 2021, 10, 2001.	1.8	27
1048	Temporal variations in the expression of a diatom nitrate transporter gene in coastal waters off northern Taiwan: The roles of nitrate and bacteria. <i>Continental Shelf Research</i> , 2021, 227, 104506.	0.9	2
1050	Grand Challenges in Microalgae Domestication. <i>Frontiers in Plant Science</i> , 2021, 12, 764573.	1.7	5
1051	Scaling down the microbial loop: data-driven modelling of growth interactions in a diatom-bacterium co-culture. <i>Environmental Microbiology Reports</i> , 2021, 13, 945-954.	1.0	5

#	ARTICLE	IF	CITATIONS
1052	Phylogeny and structural peculiarities of the EB proteins of diatoms. <i>Journal of Structural Biology</i> , 2021, 213, 107775.	1.3	1
1053	The role of methyl jasmonate in enhancing biomass yields and bioactive metabolites in <i>Stauroneis</i> sp. (<i>Bacillariophyceae</i>) revealed by proteome and biochemical profiling. <i>Journal of Proteomics</i> , 2021, 249, 104381.	1.2	4
1054	Development of an effective flocculation method by utilizing the auto-flocculation capability of <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2021, 58, 102413.	2.4	6
1055	A metatranscriptomic analysis of changing dynamics in the plankton communities adjacent to aquaculture leases in southern Tasmania, Australia. <i>Marine Genomics</i> , 2021, 59, 100858.	0.4	1
1056	Identification of Loci Enabling Stable and High-Level Heterologous Gene Expression. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 734902.	2.0	3
1057	Genetic engineering of microalgae for enhanced lipid production. <i>Biotechnology Advances</i> , 2021, 52, 107836.	6.0	52
1058	Bioprospecting of fucoxanthin from diatoms – Challenges and perspectives. <i>Algal Research</i> , 2021, 60, 102475.	2.4	38
1059	Genetic engineering of algae. , 2022, , 487-502.		1
1061	Convergence of sphingolipid desaturation across over 500 million years of plant evolution. <i>Nature Plants</i> , 2021, 7, 219-232.	4.7	31
1062	Improved biorefinery pathways of marine diatoms using a water miscible ionic liquid and its colloidal solution: efficient lipid extraction and <i>in situ</i> synthesis of fluorescent carbon dots for bio-imaging applications. <i>RSC Advances</i> , 2021, 11, 21207-21215.	1.7	7
1063	Ocean Gyres, <i>Metagenomics of</i> . , 2014, , 1-20.		1
1064	Algal Photobiology: A Rich Source of Unusual Light Sensitive Proteins for Synthetic Biology and Optogenetics. <i>Methods in Molecular Biology</i> , 2016, 1408, 37-54.	0.4	4
1065	Light-Harvesting Complexes of Diatoms: Fucoxanthin-Chlorophyll Proteins. <i>Advances in Photosynthesis and Respiration</i> , 2020, , 441-457.	1.0	5
1066	Heavy Metal Mitigation with Special Reference to Bioremediation by Mixotrophic Algae-Bacterial Protocooperation. <i>Nanotechnology in the Life Sciences</i> , 2020, , 305-334.	0.4	6
1067	Genetic and Metabolic Engineering of Microalgae. <i>Green Energy and Technology</i> , 2016, , 317-344.	0.4	4
1068	<i>Labyrinthulomycota</i> . , 2017, , 1-36.		9
1069	<i>Phytophthora ramorum</i> . , 2014, , 159-174.		3
1070	Lipids in Thylakoid Membranes and Photosynthetic Cells. <i>Advances in Photosynthesis and Respiration</i> , 2009, , 1-9.	1.0	3

#	ARTICLE	IF	CITATIONS
1071	Genomics of Marine Algae. , 2010, , 179-211.		2
1072	Marine Biotechnology. , 2010, , 287-313.		8
1073	Marine Planktonic Diatoms, Including Potentially Toxic Species. Cellular Origin and Life in Extreme Habitats, 2011, , 465-490.	0.3	4
1075	Lipid Composition of the Model Diatom <i>Phaeodactylum tricornutum</i> . , 2016, , 1-7.		4
1076	The Two-Component System: Transducing Environmental and Hormonal Signals. , 2019, , 247-278.		4
1077	The inhibition of TOR in the model diatom <i>Phaeodactylum tricornutum</i> promotes a get-fat growth regime. <i>Algal Research</i> , 2017, 26, 265-274.	2.4	30
1078	Diatoms and nanotechnology: early history and imagined future as seen through patents. , 2010, , 590-608.		9
1079	Thai amber: insights into early diatom history?. <i>Bulletin - Societe Geologique De France</i> , 2020, 191, 23.	0.9	8
1080	Building the GreenCut2 suite of proteins to unmask photosynthetic function and regulation. <i>Microbiology (United Kingdom)</i> , 2019, 165, 697-718.	0.7	13
1093	Sex in marine planktonic diatoms: insights and challenges. <i>Perspectives in Phycology</i> , 2016, 3, 61-75.	1.9	28
1094	Iron bioavailability in the Southern Ocean. <i>Oceanography and Marine Biology</i> , 2012, , 1-64.	1.0	13
1095	- Towards Engineering Dark-Operative Chlorophyll Synthesis Pathways in Transgenic Plastids. , 2013, , 408-421.		3
1097	Transcriptional Orchestration of the Global Cellular Response of a Model Pennate Diatom to Diel Light Cycling under Iron Limitation. <i>PLoS Genetics</i> , 2016, 12, e1006490.	1.5	129
1098	Multiple Horizontal Gene Transfer Events and Domain Fusions Have Created Novel Regulatory and Metabolic Networks in the Oomycete Genome. <i>PLoS ONE</i> , 2009, 4, e6133.	1.1	32
1099	Characterization of the Small RNA Transcriptome of the Diatom, <i>Thalassiosira pseudonana</i> . <i>PLoS ONE</i> , 2011, 6, e22870.	1.1	36
1100	Transcriptomics Responses in Marine Diatom <i>Thalassiosira pseudonana</i> Exposed to the Polycyclic Aromatic Hydrocarbon Benzo[a]pyrene. <i>PLoS ONE</i> , 2011, 6, e26985.	1.1	52
1101	Red and Green Algal Origin of Diatom Membrane Transporters: Insights into Environmental Adaptation and Cell Evolution. <i>PLoS ONE</i> , 2011, 6, e29138.	1.1	44
1102	Possible Role of Horizontal Gene Transfer in the Colonization of Sea Ice by Algae. <i>PLoS ONE</i> , 2012, 7, e35968.	1.1	114

#	ARTICLE	IF	CITATIONS
1123	Probing the evolutionary history of epigenetic mechanisms: what can we learn from marine diatoms. <i>AIMS Genetics</i> , 2015, 02, 173-191.	1.9	18
1124	Comparative Genomic View of The Inositol-1,4,5-Trisphosphate Receptor in Plants. <i>Journal of Plant Biochemistry & Physiology</i> , 2014, 02, .	0.5	1
1125	Evolution of the Diatoms: VIII. Re-Examination of the SSU-Rrna Gene Using Multiple Outgroups and a Cladistic Analysis of Valve Features. <i>Journal of Biodiversity Bioprospecting and Development</i> , 2014, 01, .	0.4	8
1126	Diatoms™ Breakthroughs in Biotechnology: <i>Phaeodactylum tricornutum</i> as a Model for Producing High-Added Value Molecules. <i>American Journal of Plant Sciences</i> , 2020, 11, 1632-1670.	0.3	7
1129	A study on lipid production of the mixotrophic microalgae <i>Phaeodactylum tricornutum</i> on various carbon sources. <i>African Journal of Microbiology Research</i> , 2012, 6, .	0.4	6
1130	Chimeric origins of ochrophytes and haptophytes revealed through an ancient plastid proteome. <i>ELife</i> , 2017, 6, .	2.8	129
1131	PhySortR: a fast, flexible tool for sorting phylogenetic trees in R. <i>PeerJ</i> , 2016, 4, e2038.	0.9	17
1132	Rapid induction of GFP expression by the nitrate reductase promoter in the diatom <i>Phaeodactylum tricornutum</i>. <i>PeerJ</i> , 2016, 4, e2344.	0.9	32
1133	Interaction of a dinoflagellate neurotoxin with voltage-activated ion channels in a marine diatom. <i>PeerJ</i> , 2018, 6, e4533.	0.9	11
1134	Assessment of genomic changes in a CRISPR/Cas9 <i>Phaeodactylum tricornutum</i> mutant through whole genome resequencing. <i>PeerJ</i> , 2018, 6, e5507.	0.9	26
1135	Blasticidin-S deaminase, a new selection marker for genetic transformation of the diatom <i>Phaeodactylum tricornutum</i>. <i>PeerJ</i> , 2018, 6, e5884.	0.9	36
1136	Genome-wide characterization and expression analysis of aquaporins in salt cress (<i>Eutrema</i> Tj ETQq1 1 0.784314 rgBT /Oyerlock 10	0.9	10
1137	The transcriptomic signature of cold and heat stress in benthic foraminifera—Implications for range expansions of marine calcifiers. <i>Functional Ecology</i> , 2021, 35, 2679-2690.	1.7	1
1138	Characterization of endogenous promoters of GapC1 and GS for recombinant protein expression in <i>Phaeodactylum tricornutum</i> . <i>MicrobiologyOpen</i> , 2021, 10, e1239.	1.2	0
1141	Diatoms for Omics Applications in Water Monitoring. <i>Hydrology Current Research</i> , 2011, s1, .	0.4	0
1142	Horizontal gene transfer of plant-specific leucine-rich repeats between plants and bacteria. <i>Natural Science</i> , 2013, 05, 580-598.	0.2	4
1143	Gene Transfer and the Chimeric Nature of Eukaryotic Genomes. , 2013, , 181-197.		0
1144	Genome Portal, Joint Genome Institute. , 2013, , 1-10.		0

#	ARTICLE	IF	CITATIONS
1145	Phylogenomics of Marine Algae. Malaysian Journal of Science, 2013, 32, 11-18.	0.2	0
1146	Carbon Fixation Mechanisms in Marine Diatoms: Systems to Sustain and Regulate Primary Production in Oceans. Kagaku To Seibutsu, 2014, 52, 519-529.	0.0	0
1147	Variations in the Total Lipid Content and Biological Characteristics of Diatom Species for Potential Biodiesel Production. Journal of Fundamentals of Renewable Energy and Applications, 2015, 06, .	0.2	0
1148	Fancy a gene? A surprisingly complex evolutionary history of peroxiredoxins.. Microbial Cell, 2015, 2, 33-37.	1.4	1
1149	Successful Diatom Transcription Factor Synthesis and Downstream Cloning Using the BioXpâ„¢ 3200 System. BioTechniques, 2015, 59, 46-47.	0.8	0
1150	Transformation of the Diatom Phaeodactylum tricornutum with its Endogenous (E)-4-Hydroxy-3-methylbut-2-enyl Diphosphate Reductase Gene. Journal of Applied Biological Chemistry, 2015, 58, 273-279.	0.2	0
1152	Bacillariophyta. , 2016, , 1-62.		3
1153	Nitrate Reductase: A Nexus of Disciplines, Organisms, and Metabolism. , 2016, , 105-116.		2
1154	Marine Genomics: Recent Advancement and Wide-Area Applications. , 2016, , 117-128.		0
1157	Chapter 11: Microalgae: A Promising Feedstock as Source for Thirdgeneration Renewable Energy. , 2017, , 395-420.		0
1161	Development of Basic Technologies for Biofactory Utilizing Diatoms. Kagaku To Seibutsu, 2017, 55, 759-766.	0.0	0
1162	Molecular cloning and expression analysis of the first two key genes through 2-C-methyl-D-erythritol 4-phosphate (MEP) pathway from Pyropia haitanensis (Bangiales, Rhodophyta). Algae, 2017, 32, 359-377.	0.9	1
1165	Live protist curation at the Scottish Association for Marine Science, 1884â€“2017. Archives of Natural History, 2018, 45, 267-282.	0.0	1
1167	Volatile and phenolic compounds in freshwater diatom Nitzschia palea as a potential oxidative damage protective and anti-inflammatory source. Pharmacognosy Magazine, 2019, 15, 228.	0.3	11
1168	Advances in Genetic Engineering of Microalgae. Grand Challenges in Biology and Biotechnology, 2019, , 159-221.	2.4	1
1174	Investigation of stalk formation, frequency of dividing cells and gene expression in periphyton mats dominated by <i>Didymosphenia geminata</i>. Aquatic Ecosystem Health and Management, 2020, 23, 302-312.	0.3	0
1175	Elusive Recurrent Bacterial Contamination in a Diatom Culture: A Case Study. Applied Sciences (Switzerland), 2021, 11, 10131.	1.3	0
1176	The Critical Studies of Fucoxanthin Research Trends from 1928 to June 2021: A Bibliometric Review. Marine Drugs, 2021, 19, 606.	2.2	19

#	ARTICLE	IF	CITATIONS
1177	Exploring "omics" approaches: Towards understanding the essence of stress phenomena in diatoms and haptophytes. , 2020, , 171-192.		0
1178	The Application of Transcriptomics, Metagenomics, and Metatranscriptomics in Algal Research. , 2021, , 285-291.		1
1179	Effects of co-exposure of the triazine herbicides atrazine, prometryn and terbutryn on <i>Phaeodactylum tricornutum</i> photosynthesis and nutritional value. <i>Science of the Total Environment</i> , 2022, 807, 150609.	3.9	18
1180	Mining Natural Product Biosynthesis in Eukaryotic Algae. <i>Marine Drugs</i> , 2020, 18, 90.	2.2	11
1181	The scientometric analysis of the research on the algal genomics. , 2020, , 105-125.		0
1182	Integrating Omics and Microbial Biotechnology for the Production of Biofuel. , 2020, , 221-239.		1
1183	Isolation, Characterization, and Biotechnological Potential of Native Microalgae From the Peruvian Amazon. , 0, , .		2
1184	MarinOmics " Current and Future Perspectives. , 2020, , 37-52.		0
1187	DNA Barcoding Diatoms From China With Multiple Genes. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	1
1188	Identification of Effector Metabolites Using Exometabolite Profiling of Diverse Microalgae. <i>MSystems</i> , 2021, 6, e0083521.	1.7	10
1189	Metabolic stability of freshwater <i>Nitzschia palea</i> strains under silicon stress associated with triacylglycerol accumulation. <i>Algal Research</i> , 2021, 60, 102554.	2.4	0
1190	Specific acclimations to phosphorus limitation in the marine diatom <i>Phaeodactylum tricornutum</i> . <i>Biological Chemistry</i> , 2020, 401, 1495-1501.	1.2	6
1194	Measuring reproducibility of virus metagenomics analyses using bootstrap samples from FASTQ-files. <i>Bioinformatics</i> , 2021, 37, 1068-1075.	1.8	4
1196	The effect of hydrodynamics on the succession of autotrophic and heterotrophic organisms of biofilms in river ecosystems. <i>Water Science and Technology</i> , 2021, 83, 63-76.	1.2	4
1197	Genetic manipulation of microalgae for enhanced biotechnological applications. , 2022, , 97-122.		2
1198	Fatty acids in microalgae and cyanobacteria in a changing world: Contrasting temperate and cold environments. <i>Biocell</i> , 2022, 46, 607-621.	0.4	3
1200	Effect of increased CO_2 on iron-light CO_2 co-limitation of growth in a marine diatom. <i>Limnology and Oceanography</i> , 2022, 67, 172-186.	1.6	3
1201	Phytate as a Phosphorus Nutrient with Impacts on Iron Stress-Related Gene Expression for Phytoplankton: Insights from the Diatom <i>Phaeodactylum tricornutum</i> . <i>Applied and Environmental Microbiology</i> , 2022, 88, AEM0209721.	1.4	11

#	ARTICLE	IF	CITATIONS
1202	Global Profiling of N-Glycoproteins and N-Glycans in the Diatom <i>Phaeodactylum tricornutum</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 779307.	1.7	8
1203	A review on the progress, challenges and prospects in commercializing microalgal fucoxanthin. <i>Biotechnology Advances</i> , 2021, 53, 107865.	6.0	39
1204	Lipid metabolism and metabolic engineering of eukaryotic microalgae. <i>Advances in Bioenergy</i> , 2021, 6, 1-35.	0.5	1
1205	Global marine phytoplankton revealed by the Tara Oceans expedition. , 2022, , 531-561.		2
1206	Microalgae and Cyanobacteria: How Exploiting These Microbial Resources Can Address the Underlying Challenges Related to Food Sources and Sustainable Agriculture: A Review. <i>Journal of Plant Growth Regulation</i> , 2023, 42, 1-20.	2.8	14
1207	Episome-Based Gene Expression Modulation Platform in the Model Diatom <i>Phaeodactylum tricornutum</i> . <i>ACS Synthetic Biology</i> , 2022, 11, 191-204.	1.9	6
1208	Mechanistic understanding of the toxicity of triphenyl phosphate (TPHP) to the marine diatom <i>Phaeodactylum tricornutum</i> : Targeting chloroplast and mitochondrial dysfunction. <i>Environmental Pollution</i> , 2022, 295, 118670.	3.7	8
1209	Movement of Aquatic Oxygenic Photosynthetic Organisms. <i>Progress in Botany Fortschritte Der Botanik</i> , 2021, , .	0.1	0
1210	Codon Usage Bias in Phytoplankton. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 168.	1.2	2
1211	The C-terminus of a diatom plant-like cryptochrome influences the FAD redox state and binding of interaction partners. <i>Journal of Experimental Botany</i> , 2022, 73, 1934-1948.	2.4	3
1212	Multiplexed Genome Editing via an RNA Polymerase II Promoter-Driven sgRNA Array in the Diatom <i>Phaeodactylum tricornutum</i> : Insights Into the Role of StLDP. <i>Frontiers in Plant Science</i> , 2021, 12, 784780.	1.7	7
1213	Diatom biorefinery: From carbon mitigation to high-value products. , 2022, , 401-420.		1
1214	The Transition Toward Nitrogen Deprivation in Diatoms Requires Chloroplast Stand-By and Deep Metabolic Reshuffling. <i>Frontiers in Plant Science</i> , 2021, 12, 760516.	1.7	11
1215	Transcriptomic and metatranscriptomic approaches in phytoplankton: insights and advances. , 2022, , 435-485.		1
1216	Algae as sustainable food in space missions. , 2022, , 517-540.		5
1217	Comparative genomics for understanding intraspecific diversity: a case study of the cyanobacterium <i>Raphidiopsis raciborskii</i> . , 2022, , 415-434.		3
1218	From genes to ecosystems: using molecular information from diatoms to understand ecological processes. , 2022, , 487-529.		1
1219	Isolation, characterization and S ²⁺ -oxidation metabolic pathway of a sulfur-oxidizing strain from a black-odor river in Beijing. <i>Water Science and Technology: Water Supply</i> , 0, , .	1.0	1

#	ARTICLE	IF	CITATIONS
1220	A simple and efficient strategy for fucoxanthin extraction from the microalga <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2022, 61, 102610.	2.4	10
1221	Springsâ€”Groundwater-Borne Ecotonesâ€”A Typology, with an Overview on the Diversity of Photoautotrophs in Springs. , 2022, , 488-509.		2
1222	Diatom Red Lists: important tools to assess and preserve biodiversity and habitats in the face of direct impacts and environmental change. <i>Biodiversity and Conservation</i> , 2022, 31, 453-477.	1.2	8
1223	Proteomic analysis of metabolic pathways supports chloroplastâ€”mitochondria crossâ€”talk in a Cuâ€”limited diatom. <i>Plant Direct</i> , 2022, 6, e376.	0.8	6
1224	Domoic acid biosynthesis in the red alga <i>Chondria armata</i> suggests a complex evolutionary history for toxin production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	16
1225	Selection constrains lottery assembly in the microbiomes of closely related diatom species. <i>ISME Communications</i> , 2022, 2, .	1.7	11
1228	Latest trends and developments in microalgae as potential source for biofuels: The case of diatoms. <i>Fuel</i> , 2022, 314, 122738.	3.4	28
1229	Genetic manipulation for carotenoid production in microalgae an overview. <i>Current Research in Biotechnology</i> , 2022, 4, 221-228.	1.9	16
1230	ALGAEFUN with MARACAS, microALGAE FUNctional enrichment tool for MicroAlgae RnA-seq and Chip-seq Analysis. <i>BMC Bioinformatics</i> , 2022, 23, 113.	1.2	3
1231	Evolution of Phytoplankton as Estimated from Genetic Diversity. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 456.	1.2	5
1232	Comparative Proteomic Analysis of the Diatom <i>Phaeodactylum tricornutum</i> Reveals New Insights Into Intra- and Extra-Cellular Protein Contents of Its Oval, Fusiform, and Triradiate Morphotypes. <i>Frontiers in Plant Science</i> , 2022, 13, 673113.	1.7	4
1233	What Was Old Is New Again: The Pennate Diatom <i>Haslea ostrearia</i> (Gaillon) Simonsen in the Multi-Omic Age. <i>Marine Drugs</i> , 2022, 20, 234.	2.2	5
1234	Evolutionary Adjustment of tRNA Identity Rules in Bacillariophyta for Recognition by an Aminoacyl-tRNA Synthetase Adds a Facet to the Origin of Diatoms. <i>Journal of Molecular Evolution</i> , 2022, 90, 215-226.	0.8	3
1235	Toxic effect of nickel on microalgae <i>Phaeodactylum tricornutum</i> (Bacillariophyceae). <i>Ecotoxicology</i> , 2022, 31, 746-760.	1.1	10
1236	The redox state of the plastoquinone (PQ) pool is connected to thylakoid lipid saturation in a marine diatom. <i>Photosynthesis Research</i> , 2022, 153, 71-82.	1.6	5
1237	Molecular Insights into Lipoygenases in Diatoms Based on Structure Prediction: a Pioneering Study on Lipoygenases Found in <i>Pseudo-nitzschia arenysensis</i> and <i>Fragilariopsis cylindrus</i> . <i>Marine Biotechnology</i> , 2022, 24, 468-479.	1.1	1
1238	Phytoplankton antioxidant systems and their contributions to cellular elemental stoichiometry. <i>Limnology and Oceanography Letters</i> , 2022, 7, 96-111.	1.6	3
1239	Improving microalgae for biotechnology â€” From genetics to synthetic biology â€” Moving forward but not there yet. <i>Biotechnology Advances</i> , 2022, 58, 107885.	6.0	20

#	ARTICLE	IF	CITATIONS
1240	Comparative Study Highlights the Potential of Spectral Deconvolution for Fucoxanthin Screening in Live <i>Phaeodactylum tricornutum</i> Cultures. <i>Marine Drugs</i> , 2022, 20, 19.	2.2	6
1241	Proteomic and biochemical responses to different concentrations of CO ₂ suggest the existence of multiple carbon metabolism strategies in <i>Phaeodactylum tricornutum</i> . <i>Biotechnology for Biofuels</i> , 2021, 14, 235.	6.2	11
1242	Marine Colloids Promote the Adaptation of Diatoms to Nitrate Contamination by Directional Electron Transfer. <i>Environmental Science & Technology</i> , 2022, 56, 5694-5705.	4.6	9
1243	Adaptive responses of marine diatoms to zinc scarcity and ecological implications. <i>Nature Communications</i> , 2022, 13, 1995.	5.8	10
1244	Functional differentiation and complementation of alkaline phosphatases and choreography of DOP scavenging in a marine diatom. <i>Molecular Ecology</i> , 2022, 31, 3389-3399.	2.0	12
1246	Microalgae Technology. <i>RSC Green Chemistry</i> , 2014, , 79-92.	0.0	0
1308	The photosynthetic cytochrome c 550 from the diatom <i>Phaeodactylum tricornutum</i> . <i>Photosynthesis Research</i> , 2017, 133, 273-287.	1.6	6
1310	Genetic Engineering in Marine Diatoms: Current Practices and Emerging Technologies. , 2022, , 743-773.		2
1311	Photosynthetic Light Reactions in Diatoms. I. The Lipids and Light-Harvesting Complexes of the Thylakoid Membrane. , 2022, , 397-422.		4
1312	Sensing and Signalling in Diatom Responses to Abiotic Cues. , 2022, , 607-639.		2
1313	Ancient Diatom DNA. , 2022, , 87-108.		1
1314	Epigenetic Control of Diatom Genomes: An Overview from In Silico Characterization to Functional Studies. , 2022, , 179-202.		4
1323	Diatom morphology and adaptation: Current progress and potentials for sustainable development. , 2022, 2, 100015.		8
1324	Genome evolution of a nonparasitic secondary heterotroph, the diatom <i>Nitzschia putrida</i> . <i>Science Advances</i> , 2022, 8, eabi5075.	4.7	9
1325	Toxicity Effects of Combined Mixtures of BDE-47 and Nickel on the Microalgae <i>Phaeodactylum tricornutum</i> (Bacillariophyceae). <i>Toxics</i> , 2022, 10, 211.	1.6	2
1326	Functional repertoire convergence of distantly related eukaryotic plankton lineages abundant in the sunlit ocean. <i>Cell Genomics</i> , 2022, 2, 100123.	3.0	70
1327	Recent Progress on Systems and Synthetic Biology of Diatoms for Improving Algal Productivity. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, .	2.0	4
1328	LipidTOX: A fatty acid-based index efficient for ecotoxicological studies with marine model diatoms exposed to legacy and emerging contaminants. <i>Ecological Indicators</i> , 2022, 139, 108885.	2.6	3

#	ARTICLE	IF	CITATIONS
1330	Trans-kingdom interactions in mixed biofilm communities. <i>FEMS Microbiology Reviews</i> , 2022, 46, .	3.9	12
1331	Metabolomic, proteomic and lactylated proteomic analyses indicate lactate plays important roles in maintaining energy and C:N homeostasis in <i>Phaeodactylum tricornutum</i> . , 2022, 15, .		4
1332	Metabolic adaptation of diatoms to hypersalinity. <i>Phytochemistry</i> , 2022, 201, 113267.	1.4	15
1335	Toxicity and Bioaccumulation of Copper in <i>Phaeodactylum tricornutum</i> Under Different Macronutrient Conditions. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	5
1336	A cheap two-step cultivation of <i>Phaeodactylum tricornutum</i> for increased TAG production and differential expression of TAG biosynthesis associated genes. <i>Journal of Biotechnology</i> , 2022, 354, 53-62.	1.9	6
1337	Metabolism of microalgae and metabolic engineering for biomaterial applications. , 2022, , 1-20.		0
1338	Microalgal applications in biomedicine and healthcare. , 2022, , 133-156.		1
1339	Functional Characterization of the Monogalactosyldiacylglycerol Synthase Gene <i>ptMGD2</i> in the Diatom <i>Phaeodactylum tricornutum</i> . <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	2
1340	Telomere-to-telomere genome assembly of <i>Phaeodactylum tricornutum</i> . <i>PeerJ</i> , 0, 10, e13607.	0.9	13
1341	Metabolomic and proteomic responses of <i>Phaeodactylum tricornutum</i> to hypoxia. <i>Journal of Oceanology and Limnology</i> , 2022, 40, 1963-1973.	0.6	2
1342	Knockout of a diatom cryptochrome by CRISPR/Cas9 causes an increase in light-harvesting protein levels and accumulation of fucoxanthin. <i>Algal Research</i> , 2022, 66, 102822.	2.4	12
1343	Genome-Wide Identification and Analysis of the Aureochrome Gene Family in <i>Saccharina japonica</i> and a Comparative Analysis with Six Other Algae. <i>Plants</i> , 2022, 11, 2088.	1.6	1
1344	Nutrient Starvation Exposure Induced the Down-Regulation of Stress Responsive Genes and Selected Bioactive Metabolic Pathways in <i>Phaeodactylum tricornutum</i> . <i>Stresses</i> , 2022, 2, 308-321.	1.8	0
1345	Chromosome-Scale Genome Assembly of the Marine Oleaginous Diatom <i>Fistulifera solaris</i> . <i>Marine Biotechnology</i> , 2022, 24, 788-800.	1.1	3
1347	Increased genetic diversity loss and genetic differentiation in a model marine diatom adapted to ocean warming compared to high CO ₂ . <i>ISME Journal</i> , 2022, 16, 2587-2598.	4.4	7
1348	Advancement of renewable energy technologies via artificial and microalgae photosynthesis. <i>Bioresource Technology</i> , 2022, 363, 127830.	4.8	35
1349	Draft Genome Sequence of the Freshwater Diatom <i>Fragilaria crotonensis</i> SAC 28.96. <i>Microbiology Resource Announcements</i> , 2022, 11, .	0.3	2
1351	Adaptation of a marine diatom to ocean acidification increases its sensitivity to toxic metal exposure. <i>Marine Pollution Bulletin</i> , 2022, 183, 114056.	2.3	7

#	ARTICLE	IF	CITATIONS
1352	Genetic and Molecular Characterization of a Dash Cryptochrome Homologous Gene from Antarctic Diatom <i>Phaeodactylum tricornutum</i> ICE-H. <i>Molecular Biology</i> , 0, , .	0.4	0
1353	Lack of a Zn/Co substitution ability in the polar diatom <i>Chaetoceros neogracile</i> <sc>RS19</sc>. <i>Limnology and Oceanography</i> , 2022, 67, 2265-2280.	1.6	2
1354	Genomic adaptation of the picoeukaryote <i>Pelagomonas calceolata</i> to iron-poor oceans revealed by a chromosome-scale genome sequence. <i>Communications Biology</i> , 2022, 5, .	2.0	6
1355	Integration of Microalgae-Based Wastewater Bioremediation—Biorefinery Process to Promote Circular Bioeconomy and Sustainability: A Review. <i>Clean - Soil, Air, Water</i> , 2023, 51, .	0.7	1
1356	Quantitative proteomic analyses reveal the impact of nitrogen starvation on the proteome of the model diatom <i>Phaeodactylum tricornutum</i> . <i>Proteomics</i> , 2022, 22, .	1.3	1
1357	A metabolic, phylogenomic and environmental atlas of diatom plastid transporters from the model species <i>Phaeodactylum</i> . <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	3
1358	Silencing 1,3- β -glucan synthase gene promotes total lipid production and changes fatty acids composition by affecting carbon flow distribution in <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2022, 67, 102827.	2.4	1
1359	Chemotaxonomic patterns in intracellular metabolites of marine microbial plankton. <i>Frontiers in Marine Science</i> , 0, 9, .	1.2	6
1360	Evidence for reversible light-dependent transitions in the photosynthetic pigments of diatoms. <i>RSC Advances</i> , 2022, 12, 31555-31563.	1.7	1
1361	Exogenous Arachidonic Acid Affects Fucoxanthin Biosynthesis and Photoprotection in <i>Phaeodactylum tricornutum</i> . <i>Marine Drugs</i> , 2022, 20, 644.	2.2	0
1363	Cold stress combined with salt or abscisic acid supplementation enhances lipogenesis and carotenogenesis in <i>Phaeodactylum tricornutum</i> (Bacillariophyceae). <i>Bioprocess and Biosystems Engineering</i> , 0, , .	1.7	2
1364	Differential Response of <i>Phaeodactylum tricornutum</i> and <i>Cylindrotheca fusiformis</i> to High Concentrations of Cu ²⁺ and Zn ²⁺ . <i>Water (Switzerland)</i> , 2022, 14, 3305.	1.2	0
1365	Elucidation of Functional Genes Associated with Long Chain-Polyunsaturated Fatty Acids (LC-PUFAs) Metabolism in Oleaginous Diatom <i>Phaeodactylum tricornutum</i> . <i>Hydrobiology</i> , 2022, 1, 451-468.	0.9	2
1366	Interdependence of fucoxanthin biosynthesis and fucoxanthin-chlorophyll a/c binding proteins in <i>Phaeodactylum tricornutum</i> under different light intensities. <i>Journal of Applied Phycology</i> , 2023, 35, 25-42.	1.5	6
1367	Unsuspected functions of alkaline phosphatase PhoD in the diatom <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2022, 68, 102873.	2.4	9
1368	Transcriptomic-Guided Phosphonate Utilization Analysis Unveils Evidence of Clathrin-Mediated Endocytosis and Phospholipid Synthesis in the Model Diatom, <i>Phaeodactylum tricornutum</i> . <i>MSystems</i> , 2022, 7, .	1.7	3
1369	Conservation of triplet-triplet energy transfer photoprotective pathways in fucoxanthin chlorophyll-binding proteins across algal lineages. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2023, 1864, 148935.	0.5	4
1370	Heterologous expression of antimicrobial peptides S-thanatin and bovine lactoferricin in the marine diatom <i>Phaeodactylum tricornutum</i> enhances native antimicrobial activity against Gram-negative bacteria. <i>Algal Research</i> , 2023, 69, 102927.	2.4	3

#	ARTICLE	IF	CITATIONS
1371	The Use of Omics Technologies, Random Mutagenesis, and Genetic Transformation Techniques to Improve Algae for Biodiesel Industry. <i>Clean Energy Production Technologies</i> , 2023, , 43-80.	0.3	0
1372	Overexpression of a novel gene (Pt2015) endows the commercial diatom <i>Phaeodactylum tricornutum</i> high lipid content and grazing resistance. , 2022, 15, .		2
1373	Immobilization of Diatom <i>Phaeodactylum tricornutum</i> with Filamentous Fungi and Its Kinetics. <i>Journal of Microbiology and Biotechnology</i> , 2023, 33, 251-259.	0.9	0
1374	Whole-genome scanning reveals environmental selection mechanisms that shape diversity in populations of the epipelagic diatom <i>Chaetoceros</i> . <i>PLoS Biology</i> , 2022, 20, e3001893.	2.6	7
1375	Morphological, physiological, and transcriptional responses of the freshwater diatom <i>Fragilaria crotonensis</i> to elevated pH conditions. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	2
1376	In vivo localization of iron starvation induced proteins under variable iron supplementation regimes in <i>Phaeodactylum tricornutum</i> . <i>Plant Direct</i> , 2022, 6, .	0.8	0
1379	NmrA acts as a positive regulator of nitrate assimilation in <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2023, 69, 102960.	2.4	0
1380	Geochemical and Evolutionary Prerequisites for the Cambrian Skeletal Revolution. <i>Biology Bulletin</i> , 2022, 49, 729-749.	0.1	0
1381	Okara Waste as a Substrate for the Microalgae <i>Phaeodactylum tricornutum</i> Enhances the Production of Algal Biomass, Fucoxanthin, and Polyunsaturated Fatty Acids. <i>Fermentation</i> , 2023, 9, 31.	1.4	3
1382	Cultivation of diatoms in photobioreactors. , 2023, , 207-228.		1
1384	Improving the genome and proteome annotations of the marine model diatom <i>Thalassiosira pseudonana</i> using a proteogenomics strategy. <i>Marine Life Science and Technology</i> , 2023, 5, 102-115.	1.8	1
1386	The first genetic engineered system for ovothiol biosynthesis in diatoms reveals a mitochondrial localization for the sulfoxide synthase OvoA. <i>Open Biology</i> , 2023, 13, .	1.5	5
1387	Instability of extrachromosomal DNA transformed into the diatom <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2023, 70, 102998.	2.4	4
1388	Differential expression patterns of long noncoding RNAs in a pleiomorphic diatom and relation to hyposalinity. <i>Scientific Reports</i> , 2023, 13, .	1.6	0
1389	Loss of CpFTSY Reduces Photosynthetic Performance and Affects Insertion of PsaC of PSI in Diatoms. <i>Plant and Cell Physiology</i> , 2023, 64, 583-603.	1.5	1
1393	Role of Diatoms in Forensics: A Molecular Approach. , 2023, , 143-163.		0
1410	Fucoxanthin. , 2023, , 1-27.		0
1424	New perspectives of omega-3 fatty acids from diatoms. <i>Systems Microbiology and Biomanufacturing</i> , 2024, 4, 528-541.	1.5	2

#	ARTICLE	IF	CITATIONS
1426	Fucoxanthin. , 2023, , 729-755.		0
1445	<i>Euglena</i> -based Synthetic Biology and Cell Factory. , 2023, , 61-76.		0
1456	Targeted Gene Editing of Nuclear-Encoded Plastid Proteins in <i>Phaeodactylum tricornutum</i> via CRISPR/Cas9. <i>Methods in Molecular Biology</i> , 2024, , 269-287.	0.4	0