

# CITATION REPORT

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**Algal lipid bodies: stress induction, purification, and biochemical characterization in wild-type and starchless *Chlamydomonas reinhardtii***

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#	Paper	IF	Citations
488	When are we Witnessing? And When Proselytizing?. <b>1957</b> , 14, 376-384		
487	Sustainable Bioenergy from Biofuel Residues and Wastes. <b>2010</b> , 82, 1694-1719		1
486	Hydrogen photo-evolution upon S deprivation stepwise: an illustration of microalgal photosynthetic and metabolic flexibility and a step stone for future biotechnological methods of renewable H <sub>2</sub> production. <b>2010</b> , 106, 145-54		29
485	Inhibition of starch synthesis results in overproduction of lipids in <i>Chlamydomonas reinhardtii</i> . <b>2010</b> , 107, 258-68		295
484	<i>Chlamydomonas</i> starchless mutant defective in ADP-glucose pyrophosphorylase hyper-accumulates triacylglycerol. <b>2010</b> , 12, 387-91		294
483	Biodiesel from algae: challenges and prospects. <b>2010</b> , 21, 277-86		840
482	Changes in transcript abundance in <i>Chlamydomonas reinhardtii</i> following nitrogen deprivation predict diversion of metabolism. <i>Plant Physiology</i> , <b>2010</b> , 154, 1737-52	6.6	398
481	System integration for producing microalgae as biofuel feedstock. <b>2010</b> , 1, 889-910		8
480	The interplay of proton, electron, and metabolite supply for photosynthetic H <sub>2</sub> production in <i>Chlamydomonas reinhardtii</i> . <b>2010</b> , 285, 30247-60		65
479	Increased lipid accumulation in the <i>Chlamydomonas reinhardtii</i> sta7-10 starchless isoamylase mutant and increased carbohydrate synthesis in complemented strains. <i>Eukaryotic Cell</i> , <b>2010</b> , 9, 1251-61		286
478	RNA interference silencing of a major lipid droplet protein affects lipid droplet size in <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , <b>2010</b> , 9, 97-106		324
477	Genetic engineering of algae for enhanced biofuel production. <i>Eukaryotic Cell</i> , <b>2010</b> , 9, 486-501		848
476	Microalgae: The Potential for Carbon Capture. <b>2010</b> , 60, 722-727		261
475	Unraveling algal lipid metabolism: Recent advances in gene identification. <b>2011</b> , 93, 91-100		128
474	A revised mineral nutrient supplement increases biomass and growth rate in <i>Chlamydomonas reinhardtii</i> . <b>2011</b> , 66, 770-80		187
473	Microalgae and biofuels: a promising partnership?. <b>2011</b> , 29, 542-9		122
472	Alternative photosynthetic electron transport pathways during anaerobiosis in the green alga <i>Chlamydomonas reinhardtii</i> . <b>2011</b> , 1807, 919-26		98

471	Flocculation of wall-deficient cells of <i>Chlamydomonas reinhardtii</i> mutant cw15 by calcium and methanol. <i>Biomass and Bioenergy</i> , <b>2011</b> , 35, 4835-4840	5-3	24
470	Microalgal system for treatment of effluent from poultry litter anaerobic digestion. <i>Bioresource Technology</i> , <b>2011</b> , 102, 10841-8	11	149
469	Production and harvesting of microalgae for wastewater treatment, biofuels, and bioproducts. <b>2011</b> , 29, 686-702		939
468	Structural correlates of cytoplasmic and chloroplast lipid body synthesis in <i>Chlamydomonas reinhardtii</i> and stimulation of lipid body production with acetate boost. <i>Eukaryotic Cell</i> , <b>2011</b> , 10, 1592-606		202
467	Advances and perspectives in using microalgae to produce biodiesel. <b>2011</b> , 88, 3402-3410		416
466	Hydrothermal carbonization of microalgae II. Fatty acid, char, and algal nutrient products. <b>2011</b> , 88, 3286-3290	117	
465	The potential of sustainable algal biofuel production using wastewater resources. <i>Bioresource Technology</i> , <b>2011</b> , 102, 17-25	11	1075
464	A Framework to Report the Production of Renewable Diesel from Algae. <b>2011</b> , 4, 36-60		27
463	Isolation of a novel oil globule protein from the green alga <i>Haematococcus pluvialis</i> (Chlorophyceae). <b>2011</b> , 46, 851-61		91
462	Oil accumulation in the model green alga <i>Chlamydomonas reinhardtii</i> : characterization, variability between common laboratory strains and relationship with starch reserves. <b>2011</b> , 11, 7		535
461	Modifications of the metabolic pathways of lipid and triacylglycerol production in microalgae. <i>Microbial Cell Factories</i> , <b>2011</b> , 10, 91	6.4	139
460	Transcriptome sequencing and annotation of the microalgae <i>Dunaliella tertiolecta</i> : pathway description and gene discovery for production of next-generation biofuels. <b>2011</b> , 12, 148		217
459	Proteomic profiling of oil bodies isolated from the unicellular green microalga <i>Chlamydomonas reinhardtii</i> : with focus on proteins involved in lipid metabolism. <b>2011</b> , 11, 4266-73		178
458	Isolation of a new strain of <i>Picochlorum</i> sp and characterization of its potential biotechnological applications. <b>2011</b> , 27, 1535-43		40
457	Photosynthetic carbon partitioning and lipid production in the oleaginous microalga <i>Pseudochlorococcum</i> sp. (Chlorophyceae) under nitrogen-limited conditions. <i>Bioresource Technology</i> , <b>2011</b> , 102, 123-9	11	223
456	Fatty acid profiling of <i>Chlamydomonas reinhardtii</i> under nitrogen deprivation. <i>Bioresource Technology</i> , <b>2011</b> , 102, 3343-51	11	163
455	Genetic engineering of fatty acid chain length in <i>Phaeodactylum tricornutum</i> . <b>2011</b> , 13, 89-95		199
454	Autophagy in protists. <b>2011</b> , 7, 127-58		124

453	Expanding the docosahexaenoic acid food web for sustainable production: engineering lower plant pathways into higher plants. <b>2011</b> , 2011, plr011		24
452	A cytochrome b5-containing plastid-located fatty acid desaturase from <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , <b>2012</b> , 11, 856-63		57
451	Oil accumulation is controlled by carbon precursor supply for fatty acid synthesis in <i>Chlamydomonas reinhardtii</i> . <b>2012</b> , 53, 1380-90		186
450	WAT is a functional adipocyte?. <b>2012</b> , 1, 38-45		16
449	Nitrogen and sulfur deprivation differentiate lipid accumulation targets of <i>Chlamydomonas reinhardtii</i> . <b>2012</b> , 3, 343-6		26
448	A lipid droplet protein of <i>Nannochloropsis</i> with functions partially analogous to plant oleosins. <i>Plant Physiology</i> , <b>2012</b> , 158, 1562-9	6.6	87
447	Rapid triacylglycerol turnover in <i>Chlamydomonas reinhardtii</i> requires a lipase with broad substrate specificity. <i>Eukaryotic Cell</i> , <b>2012</b> , 11, 1451-62		61
446	LHCBM1 and LHCBM2/7 polypeptides, components of major LHClI complex, have distinct functional roles in photosynthetic antenna system of <i>Chlamydomonas reinhardtii</i> . <b>2012</b> , 287, 16276-88		70
445	System response of metabolic networks in <i>Chlamydomonas reinhardtii</i> to total available ammonium. <b>2012</b> , 11, 973-88		78
444	Algal Oils: Biosynthesis and Uses. <i>Cellular Origin and Life in Extreme Habitats</i> , <b>2012</b> , 193-214		5
443	Application of synthetic biology in cyanobacteria and algae. <b>2012</b> , 3, 344		128
442	Lipid Droplets of Bacteria, Algae and Fungi and a Relationship between their Contents and Genome Sizes as Revealed by BODIPY and DAPI Staining. <b>2012</b> , 77, 289-299		10
441	13 Finding the bottleneck: A research strategy for improved biomass production.		
440	The response of diatom central carbon metabolism to nitrogen starvation is different from that of green algae and higher plants. <i>Plant Physiology</i> , <b>2012</b> , 158, 299-312	6.6	250
439	HILIC- and SCX-based quantitative proteomics of <i>Chlamydomonas reinhardtii</i> during nitrogen starvation induced lipid and carbohydrate accumulation. <b>2012</b> , 11, 5959-71		60
438	Functional analysis of three type-2 DGAT homologue genes for triacylglycerol production in the green microalga <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biotechnology</i> , <b>2012</b> , 162, 13-20	3.7	138
437	TAG, you're it! <i>Chlamydomonas</i> as a reference organism for understanding algal triacylglycerol accumulation. <b>2012</b> , 23, 352-63		251
436	Improving photosynthesis and metabolic networks for the competitive production of phototroph-derived biofuels. <b>2012</b> , 23, 290-7		66

435	Isolation and partial characterization of mutants with elevated lipid content in <i>Chlorella sorokiniana</i> and <i>Scenedesmus obliquus</i> . <i>Journal of Biotechnology</i> , <b>2012</b> , 162, 3-12	3.7	72
434	Comprehensive comparison of iTRAQ and label-free LC-based quantitative proteomics approaches using two <i>Chlamydomonas reinhardtii</i> strains of interest for biofuels engineering. <b>2012</b> , 11, 487-501		117
433	Draft genome sequence and genetic transformation of the oleaginous alga <i>Nannochloropsis gaditana</i> . <b>2012</b> , 3, 686		386
432	Perspectives on metabolic engineering for increased lipid contents in microalgae. <b>2012</b> , 3, 71-86		50
431	Three acyltransferases and nitrogen-responsive regulator are implicated in nitrogen starvation-induced triacylglycerol accumulation in <i>Chlamydomonas</i> . <b>2012</b> , 287, 15811-25		317
430	Kinetic modeling of photoautotrophic growth and neutral lipid accumulation in terms of ammonium concentration in <i>Chlamydomonas reinhardtii</i> . <i>Bioresource Technology</i> , <b>2012</b> , 119, 419-24	11	37
429	Transcriptomic analysis of the oleaginous microalga <i>Neochloris oleoabundans</i> reveals metabolic insights into triacylglyceride accumulation. <i>Biotechnology for Biofuels</i> , <b>2012</b> , 5, 74	7.8	155
428	Metabolic Pathways in Green Algae with Potential Value for Biofuel Production. <i>Cellular Origin and Life in Extreme Habitats</i> , <b>2012</b> , 399-422		2
427	Microalgae, Functional Genomics and Biotechnology. <b>2012</b> , 64, 285-341		45
426	Algae Oil. <b>2012</b> , 231-259		3
425	The place of diatoms in the biofuels industry. <b>2012</b> , 3, 221-240		180
424	A galactoglycerolipid lipase is required for triacylglycerol accumulation and survival following nitrogen deprivation in <i>Chlamydomonas reinhardtii</i> . <b>2012</b> , 24, 4670-86		225
423	Rapid triacylglyceride detection and quantification in live micro-algal cultures via liquid state 1H NMR. <i>Algal Research</i> , <b>2012</b> , 1, 166-175	5	32
422	Cultivation of <i>Chlorella zofingiensis</i> in bench-scale outdoor ponds by regulation of pH using dairy wastewater in winter, South China. <i>Bioresource Technology</i> , <b>2012</b> , 121, 76-82	11	93
421	Neutral lipid accumulation at elevated temperature in conditional mutants of two microalgae species. <b>2012</b> , 61, 71-9		22
420	Microbial Technologies in Advanced Biofuels Production. <b>2012</b> ,		17
419	The Science of Algal Fuels. <i>Cellular Origin and Life in Extreme Habitats</i> , <b>2012</b> ,		13
418	The dynamic roles of intracellular lipid droplets: from archaea to mammals. <b>2012</b> , 249, 541-85		257

4 <sup>17</sup>	Differential effects of nitrogen and sulfur deprivation on growth and biodiesel feedstock production of <i>Chlamydomonas reinhardtii</i> . <b>2012</b> , 109, 1947-57		163
4 <sup>16</sup>	Optimization of staining conditions for microalgae with three lipophilic dyes to reduce precipitation and fluorescence variability. <b>2012</b> , 81, 618-26		52
4 <sup>15</sup>	The effect of CO <sub>2</sub> and salinity on the cultivation of <i>Scenedesmus obliquus</i> for biodiesel production. <b>2012</b> , 17, 591-597		89
4 <sup>14</sup>	Nitrogen deprivation results in photosynthetic hydrogen production in <i>Chlamydomonas reinhardtii</i> . <b>2012</b> , 235, 729-45		114
4 <sup>13</sup>	Integrated green algal technology for bioremediation and biofuel. <i>Bioresource Technology</i> , <b>2012</b> , 107, 1-9	11	106
4 <sup>12</sup>	Algae for biofuel: will the evolution of weeds limit the enterprise?. <b>2012</b> , 66, 2983-7		16
4 <sup>11</sup>	Metabolic and gene expression changes triggered by nitrogen deprivation in the photoautotrophically grown microalgae <i>Chlamydomonas reinhardtii</i> and <i>Coccomyxa</i> sp. C-169. <b>2012</b> , 75, 50-9		284
4 <sup>10</sup>	Comparison of CO <sub>2</sub> and bicarbonate as inorganic carbon sources for triacylglycerol and starch accumulation in <i>Chlamydomonas reinhardtii</i> . <b>2013</b> , 110, 87-96		89
4 <sup>09</sup>	The microalga <i>Parachlorella kessleri</i> --a novel highly efficient lipid producer. <b>2013</b> , 110, 97-107		85
4 <sup>08</sup>	Molecular and cellular mechanisms of neutral lipid accumulation in diatom following nitrogen deprivation. <i>Biotechnology for Biofuels</i> , <b>2013</b> , 6, 67	7.8	242
4 <sup>07</sup>	Triacylglycerol profiling of microalgae <i>Chlamydomonas reinhardtii</i> and <i>Nannochloropsis oceanica</i> . <i>Bioresource Technology</i> , <b>2013</b> , 146, 310-316	11	58
4 <sup>06</sup>	Development of flow cytometric procedures for the efficient isolation of improved lipid accumulation mutants in a sp. microalga. <i>Journal of Applied Phycology</i> , <b>2013</b> , 25, 1643-1651	3.2	31
4 <sup>05</sup>	Fluorescent measurement of lipid content in the model organism <i>Chlamydomonas reinhardtii</i> . <i>Journal of Applied Phycology</i> , <b>2013</b> , 25, 1633-1641	3.2	19
4 <sup>04</sup>	Potential for green microalgae to produce hydrogen, pharmaceuticals and other high value products in a combined process. <i>Critical Reviews in Biotechnology</i> , <b>2013</b> , 33, 172-215	9.4	196
4 <sup>03</sup>	Conversion of membrane lipid acyl groups to triacylglycerol and formation of lipid bodies upon nitrogen starvation in biofuel green algae <i>Chlorella</i> UTEX29. <b>2013</b> , 238, 895-906		53
4 <sup>02</sup>	Morphological and spectrometric analyses of lipids accumulation in a novel oleaginous microalga, <i>Eustigmatos</i> cf. <i>polyphem</i> (Eustigmatophyceae). <b>2013</b> , 36, 1125-30		16
4 <sup>01</sup>	Engineering challenges in biodiesel production from microalgae. <i>Critical Reviews in Biotechnology</i> , <b>2013</b> , 33, 293-308	9.4	34
4 <sup>00</sup>	A comparison of lipid storage in <i>Phaeodactylum tricornutum</i> and <i>Tetraselmis suecica</i> using laser scanning confocal microscopy. <b>2013</b> , 95, 122-8		28

399	Physiological and molecular analysis of carbon source supplementation and pH stress-induced lipid accumulation in the marine diatom <i>Phaeodactylum tricornutum</i> . <b>2013</b> , 97, 3625-42		85
398	Initial risk assessment of genetically modified (GM) microalgae for commodity-scale biofuel cultivation. <i>Algal Research</i> , <b>2013</b> , 2, 66-77	5	92
397	Pigment production by a new thermotolerant microalga <i>Coelastrella</i> sp. F50. <b>2013</b> , 138, 2071-8		60
396	Central carbon metabolism and electron transport in <i>Chlamydomonas reinhardtii</i> : metabolic constraints for carbon partitioning between oil and starch. <i>Eukaryotic Cell</i> , <b>2013</b> , 12, 776-93		229
395	Triacylglycerol mobilization is suppressed by brefeldin A in <i>Chlamydomonas reinhardtii</i> . <b>2013</b> , 54, 1585-99		20
394	Systems-level analysis of nitrogen starvation-induced modifications of carbon metabolism in a <i>Chlamydomonas reinhardtii</i> starchless mutant. <b>2013</b> , 25, 4305-23		145
393	Organisms for biofuel production: natural bioresources and methodologies for improving their biosynthetic potentials. <b>2015</b> , 147, 185-224		4
392	Remodeling of membrane lipids in iron-starved <i>Chlamydomonas</i> . <b>2013</b> , 288, 30246-30258		67
391	Development of a forward genetic screen to isolate oil mutants in the green microalga <i>Chlamydomonas reinhardtii</i> . <i>Biotechnology for Biofuels</i> , <b>2013</b> , 6, 178	7.8	46
390	Biodiesel from microalgae: Ways for increasing the effectiveness of lipid accumulation by genetic engineering methods. <b>2013</b> , 47, 349-358		3
389	Visualization of Lipid Bodies in <i>Chlamydomonas reinhardtii</i> Living Cells with Fluorescent Microscopy. <b>2013</b> , 805-806, 215-218		
388	Effects of Environmental Factors and Nutrient Availability on the Biochemical Composition of Algae for Biofuels Production: A Review. <i>Energies</i> , <b>2013</b> , 6, 4607-4638	3.1	443
387	Analysis of oil droplets in microalgae. <b>2013</b> , 116, 71-82		11
386	Biogas Production from Algae and Cyanobacteria Through Anaerobic Digestion: A Review, Analysis, and Research Needs. <b>2013</b> , 873-975		43
385	Lipid metabolism in microalgae distinguishes itself. <b>2013</b> , 24, 300-9		214
384	Transcriptome analysis of <i>Chlamydomonas reinhardtii</i> during the process of lipid accumulation. <b>2013</b> , 101, 229-37		91
383	Oleosin of subcellular lipid droplets evolved in green algae. <i>Plant Physiology</i> , <b>2013</b> , 161, 1862-74	6.6	52
382	Biomass, lipid content, and fatty acid composition of freshwater <i>Chlamydomonas mexicana</i> and <i>Scenedesmus obliquus</i> grown under salt stress. <b>2013</b> , 36, 827-33		141

381	Algal Lipids and Their Metabolism. <b>2013</b> , 17-36		30
380	Phenotypic screening with oleaginous microalgae reveals modulators of lipid productivity. <b>2013</b> , 8, 1053-62		78
379	Evaluation of intracellular lipid bodies in <i>Chlamydomonas reinhardtii</i> strains by flow cytometry. <i>Bioresource Technology</i> , <b>2013</b> , 138, 30-7	11	47
378	Production of lipids and formation and mobilization of lipid bodies in <i>Chlorella vulgaris</i> . <i>Journal of Applied Phycology</i> , <b>2013</b> , 25, 545-553	3-2	42
377	The Microalgal Cell. <b>2013</b> , 1-20		10
376	Molecular and Cellular Mechanisms for Lipid Synthesis and Accumulation in Microalgae: Biotechnological Implications. <b>2013</b> , 545-565		8
375	Effects of salinity on growth and lipid accumulation of biofuel microalga <i>Nannochloropsis salina</i> and invading organisms. <i>Biomass and Bioenergy</i> , <b>2013</b> , 54, 83-88	5-3	128
374	High throughput imaging to the diatom <i>Cyclotella cryptica</i> demonstrates substantial cell-to-cell variability in the rate and extent of triacylglycerol accumulation. <i>Algal Research</i> , <b>2013</b> , 2, 244-252	5	37
373	Biofuels from Microalgae: Towards Meeting Advanced Fuel Standards. <b>2013</b> , 553-599		12
372	Advances in microalgae engineering and synthetic biology applications for biofuel production. <b>2013</b> , 17, 489-95		144
371	Lipid droplet synthesis is limited by acetate availability in starchless mutant of <i>Chlamydomonas reinhardtii</i> . <b>2013</b> , 587, 370-7		79
370	Engineering fatty acid biosynthesis in microalgae for sustainable biodiesel. <b>2013</b> , 17, 496-505		101
369	Acid hydrolysis and fermentation of microalgal starches to ethanol by the yeast <i>Saccharomyces cerevisiae</i> . <i>Biomass and Bioenergy</i> , <b>2013</b> , 48, 59-65	5-3	36
368	Genetic engineering of multispecies microbial cell factories as an alternative for bioenergy production. <b>2013</b> , 31, 521-9		59
367	Temperature modulation of fatty acid profiles for biofuel production in nitrogen deprived <i>Chlamydomonas reinhardtii</i> . <i>Bioresource Technology</i> , <b>2013</b> , 127, 441-7	11	52
366	An integrated microfluidic device for the high-throughput screening of microalgal cell culture conditions that induce high growth rate and lipid content. <b>2013</b> , 405, 9365-74		30
365	Enhancement of lipid production in low-starch mutants <i>Chlamydomonas reinhardtii</i> by adaptive laboratory evolution. <i>Bioresource Technology</i> , <b>2013</b> , 147, 499-507	11	39
364	De novo transcriptome profiling uncovers a drastic downregulation of photosynthesis upon nitrogen deprivation in the nonmodel green alga <i>Botryosphaerella sudeticus</i> . <b>2013</b> , 14, 715		18



363	Biocommodities from photosynthetic microorganisms. <b>2013</b> , 32, 989-1001		18
362	Algal swimming velocities signal fatty acid accumulation. <b>2013</b> , 110, 143-52		7
361	Heterococcus sp. DN1 draft genome: focus on cold tolerance and lipid production. <b>2013</b> , 1,		3
360	Measurement of Lipid Droplet Accumulation Kinetics in <i>Chlamydomonas reinhardtii</i> Using Seoul-Fluor. <i>Energies</i> , <b>2013</b> , 6, 5703-5716	3.1	5
359	Metabolic Engineering of Hydrocarbon Biosynthesis for Biofuel Production. <b>2013</b> ,		3
358	The central carbon and energy metabolism of marine diatoms. <b>2013</b> , 3, 325-46		43
357	Algal lipids, fatty acids and sterols. <b>2013</b> , 87-134		51
356	New lipid-producing, cold-tolerant yellow-green alga isolated from the Rocky Mountains of Colorado. <b>2013</b> , 29, 853-61		10
355	Genomic insights from the oleaginous model alga <i>Nannochloropsis gaditana</i> . <b>2013</b> , 4, 37-43		76
354	Metabolic engineering of lipid catabolism increases microalgal lipid accumulation without compromising growth. <b>2013</b> , 110, 19748-53		327
353	Third-generation biofuels: current and future research on microalgal lipid biotechnology. <b>2013</b> , 20, D606		20
352	Microorganism lipid droplets and biofuel development. <b>2013</b> , 46, 575-81		15
351	Transformation of lipid bodies related to hydrocarbon accumulation in a green alga, <i>Botryococcus braunii</i> (Race B). <i>PLoS ONE</i> , <b>2013</b> , 8, e81626	3.7	27
350	Proteomic analysis in nitrogen-deprived <i>Isochrysis galbana</i> during lipid accumulation. <i>PLoS ONE</i> , <b>2013</b> , 8, e82188	3.7	39
349	New insights on cytological and metabolic features of <i>Ostreopsis cf. ovata</i> Fukuyo (Dinophyceae): a multidisciplinary approach. <i>PLoS ONE</i> , <b>2013</b> , 8, e57291	3.7	49
348	Design and development of synthetic microbial platform cells for bioenergy. <b>2013</b> , 4, 92		29
347	Putting the N in dinoflagellates. <b>2013</b> , 4, 369		70
346	System-level network analysis of nitrogen starvation and recovery in <i>Chlamydomonas reinhardtii</i> reveals potential new targets for increased lipid accumulation. <i>Biotechnology for Biofuels</i> , <b>2014</b> , 7, 171	7.8	72

345	Engineering pathways to biofuels in photoautotrophic microorganisms. <b>2014</b> , 5, 67-78		5
344	High frequency dielectrophoretic response of microalgae over time. <b>2014</b> , 35, 3533-40		16
343	Lab-Scale Testing of a Two-Stage Continuous Culture System for Microalgae. <b>2014</b> , 10, 228-236		6
342	AlgaePath: comprehensive analysis of metabolic pathways using transcript abundance data from next-generation sequencing in green algae. <b>2014</b> , 15, 196		27
341	High-throughput fluorescence-activated cell sorting for lipid hyperaccumulating <i>Chlamydomonas reinhardtii</i> mutants. <b>2014</b> , 12, 872-82		38
340	Systems-wide analysis of acclimation responses to long-term heat stress and recovery in the photosynthetic model organism <i>Chlamydomonas reinhardtii</i> . <b>2014</b> , 26, 4270-97		75
339	Proteome analysis of cytoplasmatic and plastidic $\beta$ -carotene lipid droplets in <i>Dunaliella bardawil</i> . <i>Plant Physiology</i> , <b>2015</b> , 167, 60-79	6.6	73
338	Metabolic changes of starch and lipid triggered by nitrogen starvation in the microalga <i>Chlorella zofingiensis</i> . <i>Bioresource Technology</i> , <b>2014</b> , 152, 292-8	11	139
337	Effect of nutrient supply status on biomass composition of eukaryotic green microalgae. <i>Journal of Applied Phycology</i> , <b>2014</b> , 26, 1359-1377	3.2	122
336	pH effects on growth and lipid accumulation of the biofuel microalgae <i>Nannochloropsis salina</i> and invading organisms. <i>Journal of Applied Phycology</i> , <b>2014</b> , 26, 1431-1437	3.2	123
335	Low-Oxygen Stress in Plants. <i>Plant Cell Monographs</i> , <b>2014</b> ,	0.6	9
334	Sources and resources: importance of nutrients, resource allocation, and ecology in microalgal cultivation for lipid accumulation. <b>2014</b> , 98, 4805-16		93
333	New insights on the life cycle stages of the toxic benthic dinoflagellate <i>Ostreopsis cf. ovata</i> . <b>2014</b> , 34, 7-16		29
332	Comparative proteomics reveals proteins impacted by nitrogen deprivation in wild-type and high lipid-accumulating mutant strains of <i>Tisochrysis lutea</i> . <b>2014</b> , 105, 107-20		45
331	Seafood Processing By-Products. <b>2014</b> ,		14
330	Evaluation of internally illuminated photobioreactor for improving energy ratio. <b>2014</b> , 117, 92-8		10
329	Oil Overproduction by Means of Microalgae. <b>2014</b> , 241-273		5
328	Nitric oxide-triggered remodeling of chloroplast bioenergetics and thylakoid proteins upon nitrogen starvation in <i>Chlamydomonas reinhardtii</i> . <b>2014</b> , 26, 353-72		93

327	Perspectives of green microalgal research for biofuels. <b>2014</b> , 145-146, 15-25		1
326	Nitrogen retention and partitioning at the initiation of lipid accumulation in nitrogen-deficient algae. <b>2014</b> , 50, 356-65		19
325	Production of algal biomass, chlorophyll, starch and lipids using aquaculture wastewater under axenic and non-axenic conditions. <i>Algal Research</i> , <b>2014</b> , 6, 152-159	5	50
324	High-Throughput Genotyping of Green Algal Mutants Reveals Random Distribution of Mutagenic Insertion Sites and Endonucleolytic Cleavage of Transforming DNA. <b>2014</b> , 26, 1398-1409		140
323	Waking sleeping algal cells. <b>2014</b> , 111, 15610-1		2
322	Metabolic transformation of microalgae due to light acclimation and genetic modifications followed by laser ablation electrospray ionization mass spectrometry with ion mobility separation. <b>2014</b> , 139, 5945-53		12
321	Integrated microfluidic platform for multiple processes from microalgal culture to lipid extraction. <b>2014</b> , 86, 8585-92		25
320	The path to triacylglyceride obesity in the sta6 strain of <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , <b>2014</b> , 13, 591-613		114
319	Linking toxicity and adaptive responses across the transcriptome, proteome, and phenotype of <i>Chlamydomonas reinhardtii</i> exposed to silver. <b>2014</b> , 111, 3490-5		121
318	Composition and occurrence of lipid droplets in the cyanobacterium <i>Nostoc punctiforme</i> . <b>2014</b> , 196, 881-90		46
317	Triacylglyceride production and autophagous responses in <i>Chlamydomonas reinhardtii</i> depend on resource allocation and carbon source. <i>Eukaryotic Cell</i> , <b>2014</b> , 13, 392-400		47
316	Conditional Depletion of the <i>Chlamydomonas</i> Chloroplast ClpP Protease Activates Nuclear Genes Involved in Autophagy and Plastid Protein Quality Control. <b>2014</b> , 26, 2201-2222		90
315	Microalgal lipids biochemistry and biotechnological perspectives. <b>2014</b> , 32, 1476-93		253
314	Systematically programmed adaptive evolution reveals potential role of carbon and nitrogen pathways during lipid accumulation in <i>Chlamydomonas reinhardtii</i> . <i>Biotechnology for Biofuels</i> , <b>2014</b> , 7, 117	7.8	23
313	Integrated quantitative analysis of nitrogen stress response in <i>Chlamydomonas reinhardtii</i> using metabolite and protein profiling. <b>2014</b> , 13, 1373-96		112
312	Enhancement of lipid productivity by ethyl methane sulfonate-mediated random mutagenesis and proteomic analysis in <i>Chlamydomonas reinhardtii</i> . <b>2014</b> , 31, 1036-1042		35
311	Potential of Bioenergy Production from Microalgae. <b>2014</b> , 1, 94-103		23
310	VMP1-deficient <i>Chlamydomonas</i> exhibits severely aberrant cell morphology and disrupted cytokinesis. <b>2014</b> , 14, 121		18

309	Superior triacylglycerol (TAG) accumulation in starchless mutants of <i>Scenedesmus obliquus</i> : (I) mutant generation and characterization. <i>Biotechnology for Biofuels</i> , <b>2014</b> , 7, 69	7.8	101
308	Superior triacylglycerol (TAG) accumulation in starchless mutants of <i>Scenedesmus obliquus</i> : (II) evaluation of TAG yield and productivity in controlled photobioreactors. <i>Biotechnology for Biofuels</i> , <b>2014</b> , 7, 70	7.8	74
307	Origin of $\beta$ -carotene-rich plastoglobuli in <i>Dunaliella bardawil</i> . <i>Plant Physiology</i> , <b>2014</b> , 164, 2139-56	6.6	50
306	Enhancement of extraplastidic oil synthesis in <i>Chlamydomonas reinhardtii</i> using a type-2 diacylglycerol acyltransferase with a phosphorus starvation-inducible promoter. <b>2014</b> , 12, 808-19		127
305	Perspectives on engineering strategies for improving biofuel production from microalgae--a critical review. <b>2014</b> , 32, 1448-59		220
304	Detailed identification of fatty acid isomers sheds light on the probable precursors of triacylglycerol accumulation in photoautotrophically grown <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , <b>2014</b> , 13, 256-66		32
303	Nitrogen-Sparing Mechanisms in <i>Chlamydomonas</i> Affect the Transcriptome, the Proteome, and Photosynthetic Metabolism. <b>2014</b> , 26, 1410-1435		231
302	Culturing <i>Neochloris oleoabundans</i> microalga in a nitrogen-limited, heterotrophic fed-batch system to enhance lipid and carbohydrate accumulation. <i>Algal Research</i> , <b>2014</b> , 5, 61-69	5	32
301	Sustainability of Bioenergy Systems. <b>2014</b> , 129-148		
300	Proteomic analysis of lipid body from the alkenone-producing marine haptophyte alga <i>Tisochrysis lutea</i> . <b>2015</b> , 15, 4145-58		27
299	RNA-Seq transcriptomic analysis with Bag2D software identifies key pathways enhancing lipid yield in a high lipid-producing mutant of the non-model green alga <i>Dunaliella tertiolecta</i> . <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 191	7.8	18
298	Improving polyglucan production in cyanobacteria and microalgae via cultivation design and metabolic engineering. <b>2015</b> , 10, 886-98		28
297	Antioxidant response of <i>Chlamydomonas reinhardtii</i> grown under different element regimes. <b>2015</b> , 63, 202-211		10
296	Dynamics of protein and polar lipid recruitment during lipid droplet assembly in <i>Chlamydomonas reinhardtii</i> . <b>2015</b> , 83, 650-60		53
295	Enhancing alkane production in cyanobacterial lipid droplets: a model platform for industrially relevant compound production. <b>2015</b> , 5, 1111-26		26
294	Characterization of <i>Chlamydomonas reinhardtii</i> phosphatidylglycerophosphate synthase in <i>Synechocystis</i> sp. PCC 6803. <b>2015</b> , 6, 842		8
293	Microalgae as a Feedstock for Biofuel Precursors and Value-Added Products: Green Fuels and Golden Opportunities. <b>2015</b> , 11,		12
292	Rapid Accumulation of Total Lipid in <i>Rhizoclonium africanum</i> Kutzing as Biodiesel Feedstock under Nutrient Limitations and the Associated Changes at Cellular Level. <b>2015</b> , 2015, 275035		5

291	Molecular Genetic Techniques for Algal Bioengineering. <b>2015</b> , 155-171		1
290	Biomass and Biofuels from Microalgae. <b>2015</b> ,		25
289	Effects of simulated flue gas on components of <i>Scenedesmus raciborskii</i> WZKMT. <i>Bioresource Technology</i> , <b>2015</b> , 190, 339-44	11	8
288	Bioremediation with Microalgae. <b>2015</b> , 471-481		2
287	Colony sheath formation is accompanied by shell formation and release in the green alga <i>Botryococcus braunii</i> (race B). <i>Algal Research</i> , <b>2015</b> , 8, 214-223	5	16
286	High-Level Accumulation of Triacylglycerol and Starch in Photoautotrophically Grown <i>Chlamydomonas debaryana</i> NIES-2212. <b>2015</b> , 56, 2447-56		11
285	Perspectives on Algal Engineering for Enhanced Biofuel Production. <b>2015</b> , 73-101		
284	Transcriptional program for nitrogen starvation-induced lipid accumulation in <i>Chlamydomonas reinhardtii</i> . <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 207	7.8	43
283	Metabolism of acyl-lipids in <i>Chlamydomonas reinhardtii</i> . <b>2015</b> , 82, 504-522		168
282	Algal biofuels in Canada: Status and potential. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 44, 620-642	6.2	41
281	Regulation of starch and lipid accumulation in a microalga <i>Chlorella sorokiniana</i> . <i>Bioresource Technology</i> , <b>2015</b> , 180, 250-7	11	82
280	The regulation of photosynthetic structure and function during nitrogen deprivation in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , <b>2015</b> , 167, 558-73	6.6	80
279	Establishing <i>Chlamydomonas reinhardtii</i> as an industrial biotechnology host. <b>2015</b> , 82, 532-546		128
278	Metabolic and photosynthetic consequences of blocking starch biosynthesis in the green alga <i>Chlamydomonas reinhardtii</i> <i>sta6</i> mutant. <b>2015</b> , 81, 947-60		38
277	<i>Chlamydomonas</i> as a model for biofuels and bio-products production. <b>2015</b> , 82, 523-531		151
276	Improving microalgae for biotechnology--From genetics to synthetic biology. <b>2015</b> , 33, 1194-203		80
275	Caleosin from <i>Chlorella vulgaris</i> TISTR 8580 is salt-induced and heme-containing protein. <b>2015</b> , 79, 1119-24		12
274	Optimization of process configuration and strain selection for microalgae-based biodiesel production. <i>Bioresource Technology</i> , <b>2015</b> , 193, 25-34	11	24

273	Metabolic pathway engineering towards enhancing microalgal lipid biosynthesis for biofuel application: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 50, 1239-1253	16.2	90
272	Control of protozoa contamination and lipid accumulation in <i>Neochloris oleoabundans</i> culture: Effects of pH and dissolved inorganic carbon. <i>Bioresource Technology</i> , <b>2015</b> , 197, 143-51	11	45
271	Whey-derived valuable products obtained by microbial fermentation. <b>2015</b> , 99, 6183-96		50
270	Phenotypic screening identifies Brefeldin A/Ascotoxin as an inducer of lipid storage in the algae <i>Chlamydomonas reinhardtii</i> . <i>Algal Research</i> , <b>2015</b> , 11, 74-84	5	9
269	Structural and functional changes in the photosynthetic apparatus of <i>Chlamydomonas reinhardtii</i> during nitrogen deprivation and replenishment. <b>2015</b> , 53, 369-377		7
268	Retained duplicate genes in green alga <i>Chlamydomonas reinhardtii</i> tend to be stress responsive and experience frequent response gains. <b>2015</b> , 16, 149		10
267	An overview on biofuel and biochemical production by photosynthetic microorganisms with understanding of the metabolism and by metabolic engineering together with efficient cultivation and downstream processing. <b>2015</b> , 2,		31
266	Accumulation of energy reserves in algae: From cell cycles to biotechnological applications. <b>2015</b> , 33, 1204-18		155
265	Transgressive, reiterative selection by continuous buoyant density gradient centrifugation of <i>Dunaliella salina</i> results in enhanced lipid and starch content. <i>Algal Research</i> , <b>2015</b> , 9, 194-203	5	9
264	Triacylglycerol synthesis during nitrogen stress involves the prokaryotic lipid synthesis pathway and acyl chain remodeling in the microalgae <i>Coccomyxa subellipsoidea</i> . <i>Algal Research</i> , <b>2015</b> , 10, 110-120		38
263	Expression of Cyanobacterial Acyl-ACP Reductase Elevates the Triacylglycerol Level in the Red Alga <i>Cyanidioschyzon merolae</i> . <b>2015</b> , 56, 1962-80		33
262	Reduction of PII signaling protein enhances lipid body production in <i>Chlamydomonas reinhardtii</i> . <b>2015</b> , 240, 1-9		23
261	Growing <i>Chlorella</i> sp. on meat processing wastewater for nutrient removal and biomass production. <i>Bioresource Technology</i> , <b>2015</b> , 198, 189-97	11	117
260	Evaluation of novel starch-deficient mutants of for hyper-accumulation of lipids. <i>Algal Research</i> , <b>2015</b> , 12, 109-118	5	26
259	Algal Biorefinery: An Integrated Approach. <b>2015</b> ,		24
258	Luxury uptake of phosphorus changes the accumulation of starch and lipid in <i>Chlorella</i> sp. under nitrogen depletion. <i>Bioresource Technology</i> , <b>2015</b> , 198, 165-71	11	46
257	The response of <i>Chlamydomonas reinhardtii</i> to nitrogen deprivation: a systems biology analysis. <b>2015</b> , 81, 611-24		139
256	Extraction and purification of high-value metabolites from microalgae: essential lipids, astaxanthin and phycobiliproteins. <b>2015</b> , 8, 190-209		278

255	Molecular mechanisms for photosynthetic carbon partitioning into storage neutral lipids in <i>Nannochloropsis oceanica</i> under nitrogen-depletion conditions. <i>Algal Research</i> , <b>2015</b> , 7, 66-77	5	145
254	Microalgal lipid droplets: composition, diversity, biogenesis and functions. <b>2015</b> , 34, 545-55		83
253	Improvement of the Nile Red fluorescence assay for determination of total lipid content in microalgae independent of chlorophyll content. <i>Journal of Applied Phycology</i> , <b>2015</b> , 27, 2181-2189	3.2	15
252	Biotechnological Applications of Biodiversity. <b>2015</b> ,		1
251	BODIPY vital staining as a tool for flow cytometric monitoring of intracellular lipid accumulation in <i>Nannochloropsis gaditana</i> . <i>Journal of Applied Phycology</i> , <b>2015</b> , 27, 233-241	3.2	13
250	A fluorescence-activated cell sorting-based strategy for rapid isolation of high-lipid <i>Chlamydomonas</i> mutants. <b>2015</b> , 81, 147-59		77
249	The selective breeding of the freshwater microalga <i>Chlamydomonas reinhardtii</i> for growth in salinity. <i>Bioresource Technology</i> , <b>2015</b> , 184, 18-22	11	26
248	Exploiting Microalgae and Macroalgae for Production of Biofuels and Biosequestration of Carbon Dioxide. <i>Review</i> . <b>2015</b> , 12, 1122-1143		11
247	Coordinated rearrangements of assimilatory and storage cell compartments in a nitrogen-starving symbiotic chlorophyte cultivated under high light. <b>2015</b> , 197, 181-95		20
246	Primitive red alga <i>Cyanidioschyzon merolae</i> accumulates storage glucan and triacylglycerol under nitrogen depletion. <i>Journal of General and Applied Microbiology</i> , <b>2016</b> , 62, 111-7	1.5	13
245	Strategies for Lipid Production Improvement in Microalgae as a Biodiesel Feedstock. <b>2016</b> , 2016, 8792548		97
244	Improved Productivity of Neutral Lipids in <i>Chlorella</i> sp. A2 by Minimal Nitrogen Supply. <b>2016</b> , 7, 557		12
243	Cultivation of Acidophilic Algae and sp. YKT1 in Media Derived from Acidic Hot Springs. <b>2016</b> , 7, 2022		19
242	Global Metabolic Regulation of the Snow Alga <i>Chlamydomonas nivalis</i> in Response to Nitrate or Phosphate Deprivation by a Metabolome Profile Analysis. <b>2016</b> , 17,		21
241	Identification of Characteristic Fatty Acids to Quantify Triacylglycerols in Microalgae. <b>2016</b> , 7, 162		30
240	Microalgae and Cyanobacteria as Green Molecular Factories: Tools and Perspectives. <b>2016</b> ,		7
239	Developments and challenges in biodiesel production from microalgae: A review. <b>2016</b> , 63, 715-726		28
238	Transcript level coordination of carbon pathways during silicon starvation-induced lipid accumulation in the diatom <i>Thalassiosira pseudonana</i> . <i>New Phytologist</i> , <b>2016</b> , 210, 890-904	9.8	47

237	Nitrogen starvation-induced accumulation of triacylglycerol in the green algae: evidence for a role for ROC40, a transcription factor involved in circadian rhythm. <b>2016</b> , 85, 743-57		35
236	Host Organisms: Algae. <b>2016</b> , 605-641		1
235	Effect High Salinity and Red-Blue Light Treatment on Lipid Content of the Microalgae <i>Chlorella zofingiensis</i> DBz as Biodiesel Source. <b>2016</b> , 842, 103-110		1
234	12. Fungal cell factories and their applications. <b>2016</b> ,		
233	High-Throughput Genetics Strategies for Identifying New Components of Lipid Metabolism in the Green Alga <i>Chlamydomonas reinhardtii</i> . <b>2016</b> , 86, 223-47		5
232	Omics in <i>Chlamydomonas</i> for Biofuel Production. <b>2016</b> , 86, 447-69		8
231	Triacylglycerol Accumulation in Photosynthetic Cells in Plants and Algae. <b>2016</b> , 86, 179-205		48
230	Application of nitrogen sufficiency conversion strategy for microalgae-based ammonium-rich wastewater treatment. <b>2016</b> , 37, 2638-48		9
229	Integrated Microalgae Analysis Photobioreactor for Rapid Strain Selection. <b>2016</b> , 10, 5635-42		3
228	Characterization of salt stress-induced palmelloids in the green alga, <i>Chlamydomonas reinhardtii</i> . <i>Algal Research</i> , <b>2016</b> , 16, 434-448	5	48
227	Metabolic regulation of triacylglycerol accumulation in the green algae: identification of potential targets for engineering to improve oil yield. <b>2016</b> , 14, 1649-60		127
226	Isolation and characterization of a mutant defective in triacylglycerol accumulation in nitrogen-starved <i>Chlamydomonas reinhardtii</i> . <b>2016</b> , 1861, 1282-1293		7
225	The effect of temperature and nitrogen deprivation on cell morphology and physiology of <i>Symbiodinium</i> . <b>2016</b> , 58, 272-278		9
224	Inhibitory effect of polyunsaturated aldehydes (PUAs) on the growth of the toxic benthic dinoflagellate <i>Ostreopsis cf. ovata</i> . <b>2016</b> , 179, 125-33		19
223	Microalgae Isolation and Selection for Prospective Biodiesel Production. <b>2016</b> , 285-304		1
222	Synergism between Inositol Polyphosphates and TOR Kinase Signaling in Nutrient Sensing, Growth Control, and Lipid Metabolism in <i>Chlamydomonas</i> . <b>2016</b> , 28, 2026-2042		65
221	Can spherical eukaryotic microalgae cells be treated as optically homogeneous?. <b>2016</b> , 33, 1495-503		15
220	Engineering genomes for biofuels. <b>2016</b> , 569-597		



219	Quantification of chrysolaminarin from the model diatom <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , <b>2016</b> , 20, 180-188	5	32
218	Whole Genome Re-Sequencing Identifies a Quantitative Trait Locus Repressing Carbon Reserve Accumulation during Optimal Growth in <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , <b>2016</b> , 6, 25209	4.9	10
217	Development of phytase-expressing <i>chlamydomonas reinhardtii</i> for monogastric animal nutrition. <b>2016</b> , 16, 29		26
216	Regulation of starch, lipids and amino acids upon nitrogen sensing in <i>Chlamydomonas reinhardtii</i> . <i>Algal Research</i> , <b>2016</b> , 18, 33-44	5	4
215	Way forward to achieve sustainable and cost-effective biofuel production from microalgae: a review. <b>2016</b> , 13, 2735-2756		27
214	Influence of nitrogen depletion in the growth of <i>N. oleoabundans</i> on the release of cellular components after beadmilling. <i>Bioresource Technology</i> , <b>2016</b> , 214, 89-95	11	24
213	Saturating Light Induces Sustained Accumulation of Oil in Plastidal Lipid Droplets in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , <b>2016</b> , 171, 2406-17	6.6	41
212	Lipidomic and transcriptomic analyses of <i>Chlamydomonas reinhardtii</i> under heat stress unveil a direct route for the conversion of membrane lipids into storage lipids. <b>2016</b> , 39, 834-47		83
211	Glucose feeding recalibrates carbon flux distribution and favours lipid accumulation in <i>Chlorella protothecoides</i> through cell energetic management. <i>Algal Research</i> , <b>2016</b> , 14, 83-91	5	22
210	Lipid Metabolism in Microalgae. <b>2016</b> , 413-484		17
209	Stress-induced neutral lipid biosynthesis in microalgae - Molecular, cellular and physiological insights. <b>2016</b> , 1861, 1269-1281		118
208	An Indexed, Mapped Mutant Library Enables Reverse Genetics Studies of Biological Processes in <i>Chlamydomonas reinhardtii</i> . <b>2016</b> , 28, 367-87		226
207	Progress toward isolation of strains and genetically engineered strains of microalgae for production of biofuel and other value added chemicals: A review. <b>2016</b> , 113, 104-118		116
206	Exploring the status of motility, lipid bodies, deformities and size reduction in periphytic diatom community from chronically metal (Cu, Zn) polluted waterbodies as a biomonitoring tool. <b>2016</b> , 550, 372-381		46
205	Identification of gene transcripts involved in lipid biosynthesis in <i>Chlamydomonas reinhardtii</i> under nitrogen, iron and sulfur deprivation. <b>2016</b> , 32, 55		5
204	Comparative transcriptome analysis reveals a potential photosynthate partitioning mechanism between lipid and starch biosynthetic pathways in green microalgae. <i>Algal Research</i> , <b>2016</b> , 16, 54-62	5	33
203	A Novel Antifouling Defense Strategy from Red Seaweed: Exocytosis and Deposition of Fatty Acid Derivatives at the Cell Wall Surface. <b>2016</b> , 57, 1008-19		13
202	Discovery of genes for production of biofuels through transcriptome sequencing of <i>Dunaliella parva</i> . <i>Algal Research</i> , <b>2016</b> , 13, 318-326	5	34

201	Silencing UDP-glucose pyrophosphorylase gene in <i>Phaeodactylum tricornutum</i> affects carbon allocation. <b>2016</b> , 33, 237-44		58
200	Review of the algal biology program within the National Alliance for Advanced Biofuels and Bioproducts. <i>Algal Research</i> , <b>2017</b> , 22, 187-215	5	50
199	Self-supporting artificial system of the green alga <i>Chlamydomonas reinhardtii</i> and the ascomycetous fungus <i>Alternaria infectoria</i> . <b>2017</b> , 71, 199-209		5
198	The use of diatoms in ecotoxicology and bioassessment: Insights, advances and challenges. <b>2017</b> , 118, 39-58		48
197	Advances in culture and genetic modification approaches to lipid biosynthesis for biofuel production and in silico analysis of enzymatic dominions in proteins related to lipid biosynthesis in algae. <b>2017</b> , 65, 14-28		11
196	Effects of chrysolaminarin synthase knockdown in the diatom <i>Thalassiosira pseudonana</i> : Implications of reduced carbohydrate storage relative to green algae. <i>Algal Research</i> , <b>2017</b> , 23, 66-77	5	49
195	Molecular challenges in microalgae towards cost-effective production of quality biodiesel. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 74, 139-144	16.2	38
194	Microfluidic perfusion bioreactor for optimization of microalgal lipid productivity. <i>Bioresource Technology</i> , <b>2017</b> , 233, 433-437	11	12
193	Imaging the accumulated intracellular microalgal lipids as a response to temperature stress. <b>2017</b> , 7, 41		6
192	Continuous versus batch production of lipids in the microalgae <i>Acutodesmus obliquus</i> . <i>Bioresource Technology</i> , <b>2017</b> , 244, 1384-1392	11	32
191	The role of starch as transient energy buffer in synchronized microalgal growth in <i>Acutodesmus obliquus</i> . <i>Algal Research</i> , <b>2017</b> , 25, 160-167	5	31
190	RNA-Seq and metabolic flux analysis of <i>Tetraselmis</i> sp. M8 during nitrogen starvation reveals a two-stage lipid accumulation mechanism. <i>Bioresource Technology</i> , <b>2017</b> , 244, 1281-1293	11	22
189	The effect of physicochemical conditions and nutrient sources on maximizing the growth and lipid productivity of green microalgae. <b>2017</b> , 65, 3-13		5
188	Algal bioethanol production technology: A trend towards sustainable development. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 71, 976-985	16.2	82
187	Carbon and Acyl Chain Flux during Stress-induced Triglyceride Accumulation by Stable Isotopic Labeling of the Polar Microalga <i>Coccomyxa subellipsoidea</i> C169. <b>2017</b> , 292, 361-374		19
186	Triacylglycerol is produced from starch and polar lipids in the green alga <i>Dunaliella tertiolecta</i> . <b>2017</b> , 68, 4939-4950		23
185	High-throughput droplet microfluidics screening platform for selecting fast-growing and high lipid-producing microalgae from a mutant library. <b>2017</b> , 1, e00011		43
184	Nitrogen Starvation Impacts the Photosynthetic Performance of <i>Porphyridium cruentum</i> as Revealed by Chlorophyll a Fluorescence. <i>Scientific Reports</i> , <b>2017</b> , 7, 8542	4.9	56

183	Structure and properties of oil bodies in diatoms. <b>2017</b> , 372,		29
182	Diatom teratologies as biomarkers of contamination: Are all deformities ecologically meaningful?. <b>2017</b> , 82, 539-550		42
181	Nutrient scavenging and energy management: acclimation responses in nitrogen and sulfur deprived <i>Chlamydomonas</i> . <b>2017</b> , 39, 114-122		29
180	Improved productivity and oxidative stress tolerance under nitrogen starvation is associated with the ablated $\beta$ desaturation in the green microalga <i>Lobosphaera incisa</i> . <i>Algal Research</i> , <b>2017</b> , 26, 25-38	5	14
179	Analysis of the lipid body proteome of the oleaginous alga <i>Lobosphaera incisa</i> . <b>2017</b> , 17, 98		32
178	Microalgal cultivation with waste streams and metabolic constraints to triacylglycerides accumulation for biofuel production. <b>2017</b> , 11, 325-343		33
177	Elevated acetyl-CoA by amino acid recycling fuels microalgal neutral lipid accumulation in exponential growth phase for biofuel production. <b>2017</b> , 15, 497-509		28
176	Morphological and physiological alterations in the diatom <i>Gomphonema pseudoaugur</i> due to heavy metal stress. <b>2017</b> , 72, 67-76		42
175	Morphological and ultrastructural characterization of the acidophilic and lipid-producer strain <i>Chlamydomonas acidophila</i> LAFIC-004 (Chlorophyta) under different culture conditions. <b>2017</b> , 254, 1385-1398		12
174	Environmental stressors and lipid production in <i>Dunaliella</i> spp. II. Nutrients, pH, and light under optimal or low salinity. <b>2017</b> , 487, 33-44		8
173	Metabolic pathways for lipid synthesis under nitrogen stress in <i>Chlamydomonas</i> and <i>Nannochloropsis</i> . <b>2017</b> , 39, 1-11		34
172	<i>Chlamydomonas</i> : Triacylglycerol Accumulation. <i>Microbiology Monographs</i> , <b>2017</b> , 193-217	0.8	1
171	<i>Chlamydomonas</i> : Biotechnology and Biomedicine. <i>Microbiology Monographs</i> , <b>2017</b> ,	0.8	
170	Isolation, phenotypic characterization and genome wide analysis of a strain naturally modified under laboratory conditions: towards enhanced microalgal biomass and lipid production for biofuels. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 308	7.8	16
169	Flocculation of with Different Phenotypic Traits by Metal Cations and High pH. <b>2017</b> , 8, 1997		16
168	The TOR Signaling Network in the Model Unicellular Green Alga <i>Chlamydomonas reinhardtii</i> . <b>2017</b> , 7,		40
167	Metabolic flux analysis of heterotrophic growth in <i>Chlamydomonas reinhardtii</i> . <i>PLoS ONE</i> , <b>2017</b> , 12, e0177292		27
166	Lipid accumulation during nitrogen and sulfur starvation in <i>Chlamydomonas reinhardtii</i> overexpressing a transcription factor. <i>Journal of Applied Phycology</i> , <b>2018</b> , 30, 1721-1733	3.2	19

165	Green microalgae biomolecule separations and recovery. <b>2018</b> , 5,		61
164	The influence of exogenous organic carbon assimilation and photoperiod on the carbon and lipid metabolism of <i>Chlamydomonas reinhardtii</i> . <i>Algal Research</i> , <b>2018</b> , 31, 122-137	5	20
163	Triggering of fatty acids on <i>Tetraselmis</i> sp. by ethyl methanesulfonate mutagenic treatment. <b>2018</b> , 2, 21-28		10
162	Recovery from N Deprivation Is a Transcriptionally and Functionally Distinct State in. <i>Plant Physiology</i> , <b>2018</b> , 176, 2007-2023	6.6	19
161	Lipid productivity in TALEN-induced starchless mutants of the unicellular green alga <i>Coccomyxa</i> sp. strain Obi. <i>Algal Research</i> , <b>2018</b> , 32, 300-307	5	22
160	Diagnostic tool to ascertain marine phytoplankton exposure to chemically enhanced water accommodated fraction of oil using Fourier Transform Infrared spectroscopy. <b>2018</b> , 130, 170-178		6
159	Autophagic flux is required for the synthesis of triacylglycerols and ribosomal protein turnover in <i>Chlamydomonas</i> . <b>2018</b> , 69, 1355-1367		61
158	Role of autophagy in triacylglycerol biosynthesis in <i>Chlamydomonas reinhardtii</i> revealed by chemical inducer and inhibitors. <i>Journal of Applied Phycology</i> , <b>2018</b> , 30, 15-22	3.2	5
157	River water quality assessment based on a multi-descriptor approach including chemistry, diatom assemblage structure, and non-taxonomical diatom metrics. <b>2018</b> , 84, 140-151		31
156	Effect of gamma irradiation on lipid accumulation and expression of regulatory genes involved in lipid biosynthesis in <i>Chlorella</i> sp.. <i>Journal of Applied Phycology</i> , <b>2018</b> , 30, 277-286	3.2	8
155	3D reconstruction of endoplasmic reticulum in a hydrocarbon-secreting green alga, <i>Botryococcus braunii</i> (Race B). <b>2018</b> , 247, 663-677		3
154	Algal Green Energy [R&D and technological perspectives for biodiesel production. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 2946-2969	16.2	82
153	Metabolomic and physiological changes of <i>Chlamydomonas reinhardtii</i> (Chlorophyceae, Chlorophyta) during batch culture development. <i>Journal of Applied Phycology</i> , <b>2018</b> , 30, 803-818	3.2	14
152	Advanced biotechnology in biorefinery: a new insight into municipal waste management to the production of high-value products. <b>2018</b> , 15, 675-686		7
151	Improvements in algal lipid production: a systems biology and gene editing approach. <i>Critical Reviews in Biotechnology</i> , <b>2018</b> , 38, 369-385	9.4	51
150	6. Microbial Grease Production And Conversion. <b>2018</b> , 270-335		
149	Characterization of G-Quadruplexes in <i>Chlamydomonas reinhardtii</i> and the Effects of Polyamine and Magnesium Cations on Structure and Stability. <b>2018</b> , 57, 6551-6561		4
148	Correlative 3D x-ray fluorescence and ptychographic tomography of frozen-hydrated green algae. <b>2018</b> , 4, eaau4548		46

147	Suboptimal Temperature Acclimation Affects Kennedy Pathway Gene Expression, Lipidome and Metabolite Profile of during PUFA Enriched TAG Synthesis. <b>2018</b> , 16,		15
146	Analysis of bZIP Transcription Factor Family and Their Expressions under Salt Stress in. <b>2018</b> , 19,		15
145	Independent regulation of the lipid and starch synthesis pathways by sulfate metabolites in the green microalga <i>Parachlorella kessleri</i> under sulfur starvation conditions. <i>Algal Research</i> , <b>2018</b> , 36, 37-47 <sup>5</sup>		8
144	Chloroplast Damage Induced by the Inhibition of Fatty Acid Synthesis Triggers Autophagy in <i>Chlamydomonas</i> . <i>Plant Physiology</i> , <b>2018</b> , 178, 1112-1129	6.6	24
143	Model development for the growth of microalgae: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 97, 233-258	16.2	58
142	Comparison of cell disruption techniques prior to lipid extraction from <i>Scenedesmus</i> sp. slurries for biodiesel production using liquid CO <sub>2</sub> . <b>2018</b> , 20, 4330-4338		12
141	Enhanced Lipid Production in by Co-culturing With. <b>2018</b> , 9, 741		21
140	Innovations in improving lipid production: Algal chemical genetics. <b>2018</b> , 71, 101-123		20
139	Improvement of both lipid and biomass productivities of Qatar <i>Chlorocystis</i> isolate for biodiesel production and food security. <b>2018</b> , 66, 182-188		3
138	Stress-induced changes in the ultrastructure of the photosynthetic apparatus of green microalgae. <b>2019</b> , 256, 261-277		8
137	Overexpression of acetyl-CoA carboxylase increases fatty acid production in the green alga <i>Chlamydomonas reinhardtii</i> . <b>2019</b> , 41, 1133-1145		16
136	Impairment of starch biosynthesis results in elevated oxidative stress and autophagy activity in <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , <b>2019</b> , 9, 9856	4.9	13
135	A kinetic metabolic study of lipid production in <i>Chlorella protothecoides</i> under heterotrophic condition. <i>Microbial Cell Factories</i> , <b>2019</b> , 18, 113	6.4	5
134	Potential of concurrent expression of lipogenic genes by novel strong promoters in the oleaginous microalga <i>Phaeodactylum tricorutum</i> . <b>2019</b> , 116, 3006-3015		9
133	Molecular profiling of an oleaginous trebouxiophycean alga subjected to nutrient deprivation for enhanced biofuel production. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 182	7.8	21
132	Role of ClpP in the Biogenesis and Degradation of RuBisCO and ATP Synthase in. <b>2019</b> , 8,		6
131	Structure and functions of oleosomes (oil bodies). <b>2019</b> , 274, 102039		57
130	Measurement of Dielectric Properties of Microalgae with Different Lipid Content Using Electrorotation and Negative Dielectrophoresis Cell Trap. <b>2019</b> ,		2

129	Proteomics Analysis of Lipid Droplets from the Oleaginous Alga <i>Chromochloris zofingiensis</i> Reveals Novel Proteins for Lipid Metabolism. <b>2019</b> , 17, 260-272		24
128	Remodeling of <i>Chlamydomonas</i> Metabolism Using Synthetic Inducers Results in Lipid Storage during Growth. <i>Plant Physiology</i> , <b>2019</b> , 181, 1029-1049	6.6	6
127	Enantioselective mechanism of toxic effects of triticonazole against <i>Chlorella pyrenoidosa</i> . <b>2019</b> , 185, 109691		13
126	The lipid biochemistry of eukaryotic algae. <b>2019</b> , 74, 31-68		138
125	Algal Protein Kinase, Triacylglycerol Accumulation Regulator 1, Modulates Cell Viability and Gametogenesis in Carbon/Nitrogen-Imbalanced Conditions. <b>2019</b> , 60, 916-930		7
124	Metabolic engineering and molecular biotechnology of microalgae for fuel production. <b>2019</b> , 89-107		
123	Bioenergy production using <i>Trichormus variabilis</i> – review. <b>2019</b> , 13, 1365-1382		2
122	Growth, biochemical composition, and photosynthetic performance of <i>Scenedesmus acuminatus</i> during nitrogen starvation and resupply. <i>Journal of Applied Phycology</i> , <b>2019</b> , 31, 2797-2809	3.2	12
121	Can Omics Approaches Improve Microalgal Biofuels under Abiotic Stress?. <b>2019</b> , 24, 611-624		24
120	Temporal and metabolic overlap between lipid accumulation and programmed cell death due to nitrogen starvation in the unicellular chlorophyte <i>Chlamydomonas reinhardtii</i> . <b>2019</b> , 67, 173-183		9
119	Increased urea availability promotes adjustments in C/N metabolism and lipid content without impacting growth in <i>Chlamydomonas reinhardtii</i> . <i>Metabolomics</i> , <b>2019</b> , 15, 31	4.7	8
118	Nutritional optimization of <i>Arthrospira platensis</i> for starch and Total carbohydrates production. <b>2019</b> , 35, e2798		5
117	A review on catalytic pyrolysis of microalgae to high-quality bio-oil with low oxygenous and nitrogenous compounds. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 108, 481-497	16.2	86
116	Transcriptomic and lipidomic analysis of an EPA-containing <i>Nannochloropsis</i> sp. PJ12 in response to nitrogen deprivation. <i>Scientific Reports</i> , <b>2019</b> , 9, 4540	4.9	13
115	Branched-Chain Amino Acid Catabolism Impacts Triacylglycerol Homeostasis in. <i>Plant Physiology</i> , <b>2019</b> , 179, 1502-1514	6.6	14
114	Digital quantification and selection of high-lipid-producing microalgae through a lateral dielectrophoresis-based microfluidic platform. <b>2019</b> , 19, 4128-4138		16
113	Targeted knockout of phospholipase A to increase lipid productivity in <i>Chlamydomonas reinhardtii</i> for biodiesel production. <i>Bioresource Technology</i> , <b>2019</b> , 271, 368-374	11	69
112	Biodiesel from oleaginous microbes: opportunities and challenges. <b>2019</b> , 10, 45-59		30

111	Biofuel production from microalgae: a review. <i>Environmental Chemistry Letters</i> , <b>2020</b> , 18, 285-297	13.3	73
110	Targeting TOR signaling for enhanced lipid productivity in algae. <b>2020</b> , 169, 12-17		4
109	Hyperosmotic stress in <i>Chlamydomonas</i> induces metabolomic changes in biosynthesis of complex lipids. <b>2020</b> , 55, 11-29		7
108	Effect of nitrogen deficiency on the physiology and biochemical composition of microalga <i>Scenedesmus rotundus</i> -MG910488. <b>2020</b> , 60, 158-172		6
107	Different physiological and molecular responses of the green algae <i>Chlorella variabilis</i> to long-term and short-term elevated CO <sub>2</sub> . <i>Journal of Applied Phycology</i> , <b>2020</b> , 32, 951-966	3.2	2
106	The cadmium-induced changes in the polar and neutral lipid compositions suggest the involvement of triacylglycerol in the defense response in maize. <b>2020</b> , 26, 15-23		3
105	Effects of nitrogen concentration on growth, biomass, and biochemical composition of ( <i>E. Hegewald</i> ) <i>E. Hegewald</i> . <b>2020</b> , 50, 98-105		5
104	Integrated fermentation and anaerobic digestion of primary sludges for simultaneous resource and energy recovery: Impact of volatile fatty acids recovery. <b>2020</b> , 118, 341-349		8
103	De novo transcriptome analysis of <i>Chlorella sorokiniana</i> : effect of glucose assimilation, and moderate light intensity. <i>Scientific Reports</i> , <b>2020</b> , 10, 17331	4.9	5
102	Biobased fats and oils from microalgae. <b>2020</b> , 273-298		1
101	Maneuvering the genetic and metabolic pathway for improving biofuel production in algae: Present status and future prospective. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 133, 110155	16.2	26
100	Potassium channel KCN11 is required for maintaining cellular osmolarity during nitrogen starvation to control proper cell physiology and TAG accumulation in. <i>Biotechnology for Biofuels</i> , <b>2020</b> , 13, 129	7.8	2
99	Growth, total lipid, and omega-3 fatty acid production by <i>Nannochloropsis</i> spp. cultivated with raw plant substrate. <i>Algal Research</i> , <b>2020</b> , 51, 102041	5	1
98	Metabolic and functional connections between cytoplasmic and chloroplast triacylglycerol storage. <b>2020</b> , 80, 101069		13
97	Identification and Biotechnical Potential of a <i>Gcn5</i> -Related N-Acetyltransferase Gene in Enhancing Microalgal Biomass and Starch Production. <b>2020</b> , 11, 544827		
96	Metabolite Profiling and Network Analysis Reveal Coordinated Changes in Low-N Tolerant and Low-N Sensitive Maize Genotypes under Nitrogen Deficiency and Restoration Conditions. <b>2020</b> , 9,		3
95	Utilization of lipid-extracted biomass (LEB) to improve the economic feasibility of biodiesel production from green microalgae. <b>2020</b> , 28, 325-338		7
94	A Study on the Effect of Macro- and Micro- Nutrients on Growth, Fatty Acid Composition and Magnetic Harvesting Efficiency. <b>2020</b> , 9,		9

93	Microalgae as a future food source. <b>2020</b> , 41, 107536		114
92	A Synergistic Genetic Engineering Strategy Induced Triacylglycerol Accumulation in Potato () Leaf. <b>2020</b> , 11, 215		9
91	Practices and Perspectives in Sustainable Bioenergy. <i>Green Energy and Technology</i> , <b>2020</b> ,	0.6	1
90	Synthetic fluorescent probes to apprehend calcium signalling in lipid droplet accumulation in microalgae updated review. <b>2020</b> , 63, 308-324		5
89	Impact of pulsed electric fields and mechanical compressions on the permeability and structure of Chlamydomonas reinhardtii cells. <i>Scientific Reports</i> , <b>2020</b> , 10, 2668	4.9	11
88	Arginine-fed cultures generates triacylglycerol by triggering nitrogen starvation responses during robust growth in Chlamydomonas. <i>Algal Research</i> , <b>2020</b> , 46, 101782	5	3
87	Enhanced lipid productivity in AGP knockout marine microalga Tetraselmis sp. using a DNA-free CRISPR-Cas9 RNP method. <i>Bioresource Technology</i> , <b>2020</b> , 303, 122932	11	29
86	Energy conservation in photosynthetic microorganisms. <i>Journal of General and Applied Microbiology</i> , <b>2020</b> , 66, 59-65	1.5	4
85	Characterization of Chlamydomonas Very High Light-tolerant Mutants for Enhanced Lipid Production. <i>Journal of Oleo Science</i> , <b>2020</b> , 69, 359-368	1.6	1
84	Transcriptomic and Physiological Responses to Oxidative Stress in a Glutathione Peroxidase Mutant. <i>Genes</i> , <b>2020</b> , 11,	4.2	6
83	Environmental lipidomics: understanding the response of organisms and ecosystems to a changing world. <i>Metabolomics</i> , <b>2020</b> , 16, 56	4.7	10
82	Cultivation of Chlamydomonas reinhardtii in Anaerobically Digested Vinasse for Bioethanol Production. <i>Waste and Biomass Valorization</i> , <b>2021</b> , 12, 857-865	3.2	6
81	A realistic scenario on microalgae based biodiesel production: Third generation biofuel. <i>Fuel</i> , <b>2021</b> , 284, 118965	7.1	42
80	Biotechnological perspectives to augment the synthesis of valuable biomolecules from microalgae by employing wastewater. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 39, 101713	6.7	3
79	Interactive effect of light quality and temperature on Chlamydomonas reinhardtii growth kinetics and lipid synthesis. <i>Algal Research</i> , <b>2021</b> , 53, 102127	5	12
78	Effect of alkaline pH and nitrogen starvation on the triacylglycerol (TAG) content, growth, biochemical composition, and fatty acid profile of Auxenochlorella protothecoides KP7. <i>Journal of Applied Phycology</i> , <b>2021</b> , 33, 211-225	3.2	4
77	Strategies to Study Dark Growth Deficient or Slower Mutants in Chlamydomonas reinhardtii. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2297, 125-140	1.4	
76	Morpho-physiological responses by Chlamydomonas reinhardtii to different concentrations of ibuprofen. <i>Chemistry and Ecology</i> , <b>2021</b> , 37, 352-368	2.3	0



75	Effects of different nitrogen concentrations and light intensities on lipid accumulation and growth of <i>Chlamydomonas reinhardtii</i> . <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2021</b> , 675, 012040-3		
74	Lignocellulose, algal biomass, biofuels and biohydrogen: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 2809-2824	13.3	8
73	The oleaginous astaxanthin-producing alga <i>Chromochloris zofingiensis</i> : potential from production to an emerging model for studying lipid metabolism and carotenogenesis. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 119	7.8	13
72	Regulatory mechanisms of lipid biosynthesis in microalgae. <i>Biological Reviews</i> , <b>2021</b> , 96, 2373-2391	13.5	9
71	The disassembly of lipid droplets in <i>Chlamydomonas</i> . <i>New Phytologist</i> , <b>2021</b> , 231, 1359-1364	9.8	4
70	<i>Chlamydomonas reinhardtii</i> exhibits stress memory in the accumulation of triacylglycerols induced by nitrogen deprivation.		1
69	Microalgal lipids: A review of lipids potential and quantification for 95 phytoplankton species. <i>Biomass and Bioenergy</i> , <b>2021</b> , 150, 106108	5.3	15
68	Recycling of the major thylakoid lipid MGDG and its role in lipid homeostasis in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , <b>2021</b> , 187, 1341-1356	6.6	2
67	Recent developments in microalgal genome editing for enhancing lipid accumulation and biofuel recovery. <i>Biomass and Bioenergy</i> , <b>2021</b> , 150, 106093	5.3	7
66	Comprehensive sequence and structure analysis of algal lipid catabolic enzyme Triacylglycerol lipase: an study to vitalize the development of optimum engineered strains with high lipid productivity. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 1-19	3.6	
65	Lipid droplet evolution gives insight into polyan euploid cancer cell lipid droplet functions. <i>Medical Oncology</i> , <b>2021</b> , 38, 133	3.7	1
64	LED alternating between blue and red-orange light improved the biomass and lipid productivity of <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biotechnology</i> , <b>2021</b> , 341, 96-102	3.7	2
63	Strain Selection Strategies for Improvement of Algal Biofuel Feedstocks. 173-189		1
62	Lipid Bodies Isolated Microalgae Residues as a Source for Bioethanol Production. <b>2014</b> , 407-421		1
61	Genetic and Metabolic Engineering of Microalgae. <i>Green Energy and Technology</i> , <b>2016</b> , 317-344	0.6	3
60	Insights into Algal Fermentation. <i>Plant Cell Monographs</i> , <b>2014</b> , 135-163	0.6	2
59	Polyhydroxybutyrate production and increased macromolecule content in <i>Chlamydomonas reinhardtii</i> cultivated with xylose and reduced nitrogen levels. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 158, 875-883	7.9	5
58	Time-course global expression profiles of <i>Chlamydomonas reinhardtii</i> during photo-biological H <sub>2</sub> production. <i>PLoS ONE</i> , <b>2011</b> , 6, e29364	3.7	30

57	Rapid induction of lipid droplets in <i>Chlamydomonas reinhardtii</i> and <i>Chlorella vulgaris</i> by Brefeldin A. <i>PLoS ONE</i> , <b>2013</b> , 8, e81978	3.7	54
56	Lipid accumulation during the establishment of kleptoplasty in <i>Elysia chlorotica</i> . <i>PLoS ONE</i> , <b>2014</b> , 9, e97477	3.7	24
55	Lipidomic Analysis of <i>Chlamydomonas reinhardtii</i> under Nitrogen and Sulfur Deprivation. <i>PLoS ONE</i> , <b>2015</b> , 10, e0137948	3.7	35
54	Continuous-flow sorting of microalgae cells based on lipid content by high frequency dielectrophoresis. <i>AIMS Biophysics</i> , <b>2016</b> , 3, 398-414	0.8	17
53	The phytohormone abscisic acid increases triacylglycerol content in the green microalga <i>Chlorella saccharophila</i> (Chlorophyta). <i>Algae</i> , <b>2016</b> , 31, 267-276	2.4	17
52	A comprehensive review on enhanced production of microbial lipids for high-value applications. <i>Biomass Conversion and Biorefinery</i> , <b>2021</b> , 1	2.3	1
51	Assessment on the oil accumulation by knockdown of triacylglycerol lipase in the oleaginous diatom <i>Fistulifera solaris</i> . <i>Scientific Reports</i> , <b>2021</b> , 11, 20905	4.9	0
50	Revealing Lipid Body Formation and its Subcellular Reorganization in Oleaginous Microalgae Using Correlative Optical Microscopy and Infrared Nanospectroscopy. <i>Applied Spectroscopy</i> , <b>2021</b> , 75, 1538-1547	2.1	0
49	From Isolation of Potential Microalgal Strains to Strain Engineering for Biofuel. <i>Cellular Origin and Life in Extreme Habitats</i> , <b>2012</b> , 63-81		
48	Hydrogen and Biofuel Production in the Chloroplast. <b>2014</b> , 559-585		
47	Effect of Nutrient Limitation on Lipid Content and Fatty Acid Composition of Mutant <i>Chlamydomonas reinhardtii</i> . <i>KSBB Journal</i> , <b>2015</b> , 30, 91-95	1.5	1
46	Accumulation of neutral lipids in the cells of <i>Chlamydomonas reinhardtii</i> under stress conditions. <i>Fiziologia Rastenij I Genetika</i> , <b>2016</b> , 48, 401-415	0.4	
45	The Sexual Developmental Program of <i>Chlamydomonas reinhardtii</i> . <i>Microbiology Monographs</i> , <b>2017</b> , 127-148	0.8	
44	Random- Mutagenesis in Photosynthetic Microorganisms Further Selected with Respect to Increased Lipid Content. <i>Agriculture for Life Life for Agriculture Conference Proceedings</i> , <b>2018</b> , 1, 501-507		0
43	Arginine culture generates triacylglycerol by triggering nitrogen starvation responses during robust growth in <i>Chlamydomonas</i> .		
42	Underwater Light Manipulation by the Benthic Diatom : From PAR Efficient Collection to UVR Screening. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	0
41	Transgenicisim in algae: Challenges in compatibility, global scenario and future prospects for next generation biofuel production. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 154, 111829	16.2	2
40	Photobioreactors for Bioenergy Systems and Lipid Extraction Methods from Microalgae. <i>Green Energy and Technology</i> , <b>2020</b> , 131-157	0.6	

39	CrABCA2 Facilitates Triacylglycerol Accumulation in under Nitrogen Starvation. <i>Molecules and Cells</i> , <b>2020</b> , 43, 48-57	3.5	2
38	Oleaginous microbes: potential and challenges from waste-to-energy conversion. <b>2022</b> , 221-244		
37	Progress of metabolic engineering for the production of eicosapentaenoic acid. <i>Critical Reviews in Biotechnology</i> , <b>2021</b> , 1-18	9.4	2
36	Reconsidering the potential of direct microalgal biomass utilization as end-products: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 155, 111930	16.2	2
35	Production and harvesting of microalgae and an efficient operational approach to biofuel production for a sustainable environment. <i>Fuel</i> , <b>2021</b> , 122543	7.1	12
34	Heterotrophic Cultivate Increases the Concentration of Phytohormones in <i>Chlamydomonas Reinhardtii</i> . <i>SSRN Electronic Journal</i> ,	1	
33	Lipid metabolism and metabolic engineering of eukaryotic microalgae. <i>Advances in Bioenergy</i> , <b>2021</b> , 6, 1-35	3.9	0
32	Characterization of isolated UV-C-irradiated mutants of microalga for future biofuel application.. <i>Environment, Development and Sustainability</i> , <b>2022</b> , 1-18	4.5	2
31	Rhythm of The Night (and Day): Predictive metabolic modeling of circadian growth in <i>Chlamydomonas</i> .		
30	Latest trends and developments in microalgae as potential source for biofuels: The case of diatoms. <i>Fuel</i> , <b>2022</b> , 314, 122738	7.1	3
29	<i>Chlamydomonas reinhardtii</i> exhibits stress memory in the accumulation of triacylglycerols induced by nitrogen deprivation. <i>Plant-Environment Interactions</i> , <b>2022</b> , 3, 10-15	1.4	
28	Identification of Targets of Transcription Factor WRINKLED1-Like Related to Lipid Biosynthesis From Marine Microalga <i>Dunaliella parva</i> . <i>Frontiers in Marine Science</i> , <b>2022</b> , 8,	4.5	
27	Latest Expansions in Lipid Enhancement of Microalgae for Biodiesel Production: An Update. <i>Energies</i> , <b>2022</b> , 15, 1550	3.1	1
26	Macular pigment-enriched oil production from genome-edited microalgae.. <i>Microbial Cell Factories</i> , <b>2022</b> , 21, 27	6.4	2
25	Microalgae as a Natural CO <sub>2</sub> Sequester: A Study on Effect of Tobacco Smoke on Two Microalgae Biochemical Responses. <i>Frontiers in Energy Research</i> , <b>2022</b> , 10,	3.8	0
24	Less-unsaturated phosphatidylethanolamine, a PDAT substrate for oil biosynthesis, is a transient carbon reservoir in <i>Nannochloropsis</i> .. <i>Plant Physiology</i> , <b>2022</b> ,	6.6	1
23	A sustainable integration of removing CO <sub>2</sub> /NO <sub>x</sub> and producing biomass with high content of lipid/protein by microalgae. <i>Journal of Energy Chemistry</i> , <b>2022</b> ,	12	0
22	Image_1.JPEG. <b>2018</b> ,		

21 Image\_2.JPEG. **2018**,

20 Data\_Sheet\_1.docx. **2020**,

19 Image\_1.jpeg. **2020**,

18 Table\_1.docx. **2020**,

17 Table\_2.xlsx. **2020**,

16 Challenges and prospects for sustainable microalga-based oil: A comprehensive review, with a focus on metabolic and genetic engineering. *Fuel*, **2022**, 324, 124567 7.1 ○

15 Algae as Potential Feedstock for Bioethanol Production. *Green Chemistry and Sustainable Technology*, **2022**, 89-100 1.1

14 Rhythm of the Night (and Day): Predictive Metabolic Modeling of Diurnal Growth in *Chlamydomonas*. *MSystems*, 7.6

13 A Comprehensive Review on Microalgae-based Biorefinery as Two-way Source of Wastewater Treatment and Bioresource Recovery. 2200044 ○

12 Molecular Engineering/Metabolic Engineering-Based Advanced Biotechnological Approach in Microalgal Biorefinery. **2022**, 145-163 ○

11 Integration of Microalgae-Based Wastewater Bioremediation-Biorefinery Process to Promote Circular Bioeconomy and Sustainability [IA Review](#). 2100407 ○

10 Physiological and Genetic Regulation for High Lipid Accumulation by *Chlorella sorokiniana* Strains from Different Environments of an Arctic Glacier, Desert, and Temperate Lake under Nitrogen Deprivation Conditions. ○

9 Influence of Culture Conditions on the Microalgal Biomass and Lipid Accumulation. **2023**, 149-172 ○

8 CO<sub>2</sub> Levels Modulate Carbon Utilization, Energy Levels and Inositol Polyphosphate Profile in *Chlorella*. **2023**, 12, 129 ○

7 The chloroplast in a changing environment: from genome to proteome. **2023**, 413-442 ○

6 Photoproduction of reducing power and the Calvin-Benson cycle. **2023**, 273-315 ○

5 Methods for the localization of cellular components in *Chlamydomonas*. **2023**, 345-384 ○

4 Cell ultrastructure. **2023**, 17-40 ○

- 3 INFLUENCE OF NITROGEN SUPPLY ON THE ACCUMULATION OF BIOMASS AND LIPOPHILIC COMPOUNDS ACUTODESMUS DIMORPHUS (TURPIN) TSARENKO. **2022**, 14, 33-38 ○
- 2 A novel process for the production of *Chromochloris zofingiensis* through dark-induced multi-nuclei formation. **2023**, 71, 103053 ○
- 1 Variation of chemical compositions and fatty acids profiles of *Chlorella* sp. utilizing physical shocks. ○