

# Feng Chen

## List of Publications by Citations

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

97 papers	7,927 citations	51 h-index	88 g-index
98 ext. papers	8,699 ext. citations	5.5 avg, IF	6.1 L-index

#	Paper	IF	Citations
97	Biodiesel production by microalgal biotechnology. <i>Applied Energy</i> , <b>2010</b> , 87, 38-46	10.7	768
96	A systematic survey of antioxidant activity of 30 Chinese medicinal plants using the ferric reducing antioxidant power assay. <i>Food Chemistry</i> , <b>2006</b> , 97, 705-711	8.5	337
95	Heterotrophic production of eicosapentaenoic acid by microalgae. <i>Biotechnology Advances</i> , <b>2003</b> , 21, 273-94	17.8	280
94	Antioxidant properties in vitro and total phenolic contents in methanol extracts from medicinal plants. <i>LWT - Food Science and Technology</i> , <b>2008</b> , 41, 385-390	5.4	278
93	High cell density culture of microalgae in heterotrophic growth. <i>Trends in Biotechnology</i> , <b>1996</b> , 14, 421-425	5.1	278
92	Production of astaxanthin by the green microalga <i>Chlorella zofingiensis</i> in the dark. <i>Process Biochemistry</i> , <b>2005</b> , 40, 733-738	4.8	197
91	<i>Chlorella zofingiensis</i> as an alternative microalgal producer of astaxanthin: biology and industrial potential. <i>Marine Drugs</i> , <b>2014</b> , 12, 3487-515	6	174
90	Heterotrophic production of biomass and lutein by <i>Chlorella protothecoides</i> on various nitrogen sources. <i>Enzyme and Microbial Technology</i> , <b>2000</b> , 27, 312-318	3.8	171
89	Cinnamon bark proanthocyanidins as reactive carbonyl scavengers to prevent the formation of advanced glycation endproducts. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 1907-11	5.7	169
88	Effect of C/N ratio and aeration on the fatty acid composition of heterotrophic <i>Chlorella sorokiniana</i> . <i>Journal of Applied Phycology</i> , <b>1991</b> , 3, 203-209	3.2	168
87	Inhibitory effect of mung bean extract and its constituents vitexin and isovitexin on the formation of advanced glycation endproducts. <i>Food Chemistry</i> , <b>2008</b> , 106, 475-481	8.5	164
86	Lipid Production from <i>Nannochloropsis</i> . <i>Marine Drugs</i> , <b>2016</b> , 14,	6	164
85	Degradation of Ascorbic Acid in Aqueous Solution. <i>Journal of Agricultural and Food Chemistry</i> , <b>1998</b> , 46, 5078-5082	5.7	161
84	Total phenolic contents and antioxidant capacities of 51 edible and wild flowers. <i>Journal of Functional Foods</i> , <b>2014</b> , 6, 319-330	5.1	150
83	High-yield production of lutein by the green microalga <i>Chlorella protothecoides</i> in heterotrophic fed-batch culture. <i>Biotechnology Progress</i> , <b>2002</b> , 18, 723-7	2.8	148
82	Enhanced production of astaxanthin by the green microalga <i>Chlorella zofingiensis</i> in mixotrophic culture. <i>Process Biochemistry</i> , <b>2004</b> , 39, 1761-1766	4.8	147
81	Growing phototrophic cells without light. <i>Biotechnology Letters</i> , <b>2006</b> , 28, 607-16	3	141

80	The effects of grape seed extract fortification on the antioxidant activity and quality attributes of bread. <i>Food Chemistry</i> , <b>2010</b> , 119, 49-53	8.5	140
79	Eicosapentaenoic acid and docosahexaenoic acid production potential of microalgae and their heterotrophic growth. <i>JAOCs, Journal of the American Oil Chemists Society</i> , <b>1998</b> , 75, 393-397	1.8	138
78	High cell density mixotrophic culture of <i>Spirulina platensis</i> on glucose for phycocyanin production using a fed-batch system. <i>Enzyme and Microbial Technology</i> , <b>1997</b> , 20, 221-224	3.8	132
77	Microalgal carotenoids: beneficial effects and potential in human health. <i>Food and Function</i> , <b>2014</b> , 5, 413-25	6.1	116
76	Growth and phycocyanin formation of <i>Spirulina platensis</i> in photoheterotrophic culture. <i>Biotechnology Letters</i> , <b>1996</b> , 18, 603-608	3	113
75	Rapid screening method for lipid production in alga based on Nile red fluorescence. <i>Biomass and Bioenergy</i> , <b>2009</b> , 33, 1386-1392	5.3	106
74	Production potential of <i>Chlorella zofingiensis</i> as a feedstock for biodiesel. <i>Bioresource Technology</i> , <b>2010</b> , 101, 8658-63	11	103
73	Heterotrophic production of lutein by selected <i>Chlorella</i> strains. <i>Journal of Applied Phycology</i> , <b>1997</b> , 9, 445-450	3.2	96
72	Fatty acid composition and squalene content of the marine microalga <i>Schizochytrium mangrovei</i> . <i>Journal of Agricultural and Food Chemistry</i> , <b>2004</b> , 52, 1196-200	5.7	96
71	Antidiabetic activity of Mung bean extracts in diabetic KK-Ay mice. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 8869-73	5.7	90
70	Production of biomass and lutein by <i>Chlorella protothecoides</i> at various glucose concentrations in heterotrophic cultures. <i>Process Biochemistry</i> , <b>1999</b> , 34, 341-347	4.8	89
69	Antioxidant capacities, phenolic compounds and polysaccharide contents of 49 edible macro-fungi. <i>Food and Function</i> , <b>2012</b> , 3, 1195-205	6.1	88
68	Inhibitory activities of dietary phenolic compounds on heterocyclic amine formation in both chemical model system and beef patties. <i>Molecular Nutrition and Food Research</i> , <b>2007</b> , 51, 969-76	5.9	86
67	Employment of reactive oxygen species to enhance astaxanthin formation in <i>Chlorella zofingiensis</i> in heterotrophic culture. <i>Process Biochemistry</i> , <b>2005</b> , 40, 3491-3496	4.8	85
66	Production potential of docosahexaenoic acid by the heterotrophic marine dinoflagellate <i>Cryptothecodinium cohnii</i> . <i>Process Biochemistry</i> , <b>1999</b> , 34, 633-637	4.8	85
65	Antioxidant and antiglycation activity of selected dietary polyphenols in a cookie model. <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 1643-8	5.7	70
64	Heterotrophic growth of <i>Chlamydomonas reinhardtii</i> on acetate in chemostat culture. <i>Process Biochemistry</i> , <b>1996</b> , 31, 601-604	4.8	70
63	Effects of temperature and temperature shift on docosahexaenoic acid production by the marine microalga <i>Cryptothecodinium cohnii</i> . <i>JAOCs, Journal of the American Oil Chemists Society</i> , <b>2000</b> , 77, 613-617	1.8	69

62	Tailoring biomass-derived carbon for high-performance supercapacitors from controllably cultivated algae microspheres. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 1523-1530	13	69
61	Application of statistically-based experimental designs for the optimization of eicosapentaenoic acid production by the diatom <i>Nitzschia laevis</i> . <i>Biotechnology and Bioengineering</i> , <b>2001</b> , 75, 159-69	4.9	68
60	Production potential of eicosapentaenoic acid by the diatom <i>Nitzschia laevis</i> . <i>Biotechnology Letters</i> , <b>2000</b> , 22, 727-733	3	66
59	Fatty acid and lipid class composition of the eicosapentaenoic acid-producing microalga, <i>Nitzschia laevis</i> . <i>Food Chemistry</i> , <b>2007</b> , 104, 1580-1585	8.5	64
58	Physiological and biochemical changes reveal stress-associated photosynthetic carbon partitioning into triacylglycerol in the oleaginous marine alga <i>Nannochloropsis oculata</i> . <i>Algal Research</i> , <b>2016</b> , 16, 28-35		62
57	A simple method for efficient separation and purification of c-phycocyanin and allophycocyanin from <i>Spirulina platensis</i> . <i>Biotechnology Letters</i> , <b>1999</b> , 13, 601-603		60
56	Utilization of cane molasses towards cost-saving astaxanthin production by a <i>Chlorella zofingiensis</i> mutant. <i>Journal of Applied Phycology</i> , <b>2013</b> , 25, 1447-1456	3.2	58
55	Mixotrophic and heterotrophic growth of <i>Haematococcus lacustris</i> and rheological behaviour of the cell suspensions. <i>Bioresource Technology</i> , <b>1997</b> , 62, 19-24	11	58
54	High-value biomass from microalgae production platforms: strategies and progress based on carbon metabolism and energy conversion. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 227	7.8	57
53	A strategy for high cell density culture of heterotrophic microalgae with inhibitory substrates. <i>Journal of Applied Phycology</i> , <b>1995</b> , 7, 43-46	3.2	57
52	Optimization of nitrogen source for enhanced production of squalene from thraustochytrid <i>Aurantiochytrium</i> sp. <i>New Biotechnology</i> , <b>2010</b> , 27, 382-9	6.4	56
51	Substrate inhibition of <i>Chlamydomonas reinhardtii</i> by acetate in heterotrophic culture. <i>Process Biochemistry</i> , <b>1994</b> , 29, 245-252	4.8	56
50	Enhanced production of lutein in heterotrophic <i>Chlorella protothecoides</i> by oxidative stress. <i>Science in China Series C: Life Sciences</i> , <b>2008</b> , 51, 1088-93		54
49	Kinetic modeling of lutein production by heterotrophic <i>Chlorella</i> at various pH and temperatures. <i>Molecular Nutrition and Food Research</i> , <b>2006</b> , 50, 763-8	5.9	54
48	Inhibition of mutagenic PhIP formation by epigallocatechin gallate via scavenging of phenylacetaldehyde. <i>Molecular Nutrition and Food Research</i> , <b>2009</b> , 53, 716-25	5.9	53
47	Effects of medium glucose concentration and pH on docosahexaenoic acid content of heterotrophic <i>Cryptocodinium cohnii</i> . <i>Process Biochemistry</i> , <b>2000</b> , 35, 1205-1209	4.8	53
46	Beneficial effects of cinnamon proanthocyanidins on the formation of specific advanced glycation endproducts and methylglyoxal-induced impairment on glucose consumption. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 6692-6	5.7	51
45	Inhibitory effects of microalgal extracts on the formation of advanced glycation endproducts (AGEs). <i>Food Chemistry</i> , <b>2010</b> , 120, 261-267	8.5	50

44	Variation of lipid class composition in <i>Nitzschia laevis</i> as a response to growth temperature change. <i>Food Chemistry</i> , <b>2008</b> , 109, 88-94	8.5	50
43	Isolation and purification of canthaxanthin from the microalga <i>Chlorella zofingiensis</i> by high-speed counter-current chromatography. <i>Journal of Separation Science</i> , <b>2006</b> , 29, 699-703	3.4	49
42	High cell density culture of the diatom <i>Nitzschia laevis</i> for eicosapentaenoic acid production: fed-batch development. <i>Process Biochemistry</i> , <b>2002</b> , 37, 1447-1453	4.8	49
41	Optimization of nitrogen sources for heterotrophic production of eicosapentaenoic acid by the diatom <i>Nitzschia laevis</i> . <i>Enzyme and Microbial Technology</i> , <b>2001</b> , 29, 341-347	3.8	49
40	A Hetero-Photoautotrophic Two-Stage Cultivation Process for Production of Fucoxanthin by the Marine Diatom. <i>Marine Drugs</i> , <b>2018</b> , 16,	6	48
39	Enhanced production of squalene in the thraustochytrid <i>Aurantiochytrium mangrovei</i> by medium optimization and treatment with terbinafine. <i>World Journal of Microbiology and Biotechnology</i> , <b>2010</b> , 26, 1303-9	4.4	47
38	Relationship between substrate inhibition and maintenance energy of <i>Chlamydomonas reinhardtii</i> in heterotrophic culture. <i>Journal of Applied Phycology</i> , <b>1996</b> , 8, 15-19	3.2	47
37	<i>Chlorella</i> species as hosts for genetic engineering and expression of heterologous proteins: Progress, challenge and perspective. <i>Biotechnology Journal</i> , <b>2016</b> , 11, 1244-1261	5.6	46
36	Preparative isolation and purification of astaxanthin from the microalga <i>Chlorococcum</i> sp. by high-speed counter-current chromatography. <i>Journal of Chromatography A</i> , <b>2001</b> , 925, 133-7	4.5	45
35	Isolation and purification of lutein from the microalga <i>Chlorella vulgaris</i> by extraction after saponification. <i>Journal of Agricultural and Food Chemistry</i> , <b>2002</b> , 50, 1070-2	5.7	45
34	Separation and Identification of Furanic Compounds in Fruit Juices and Drinks by High-Performance Liquid Chromatography Photodiode Array Detection. <i>Journal of Agricultural and Food Chemistry</i> , <b>1998</b> , 46, 1286-1291	5.7	42
33	Fatty acid profile of the edible filamentous cyanobacterium <i>Nostoc flagelliforme</i> at different temperatures and developmental stages in liquid suspension culture. <i>Process Biochemistry</i> , <b>2005</b> , 40, 371-377	4.8	40
32	Biology and Industrial Applications of <i>Chlorella</i> : Advances and Prospects. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2016</b> , 153, 1-35	1.7	39
31	Heterotrophic growth and nutritional aspects of the diatom <i>Cyclotella cryptica</i> (Bacillariophyceae): Effect of some environmental factors. <i>Journal of Bioscience and Bioengineering</i> , <b>2010</b> , 109, 235-9	3.3	36
30	High density cultivation of <i>Panax notoginseng</i> cells in stirred bioreactors for the production of ginseng biomass and ginseng saponin. <i>Process Biochemistry</i> , <b>1999</b> , 35, 491-496	4.8	34
29	Transcriptome analysis reveals global regulation in response to CO <sub>2</sub> supplementation in oleaginous microalga <i>Coccomyxa subellipsoidea</i> C-169. <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 151	7.8	34
28	Light attenuates lipid accumulation while enhancing cell proliferation and starch synthesis in the glucose-fed oleaginous microalga <i>Chlorella zofingiensis</i> . <i>Scientific Reports</i> , <b>2015</b> , 5, 14936	4.9	33
27	Protective actions of microalgae against endogenous and exogenous advanced glycation endproducts (AGEs) in human retinal pigment epithelial cells. <i>Food and Function</i> , <b>2011</b> , 2, 251-8	6.1	33

26	Astaxanthin is responsible for antiglycoxidative properties of microalga <i>Chlorella zofingiensis</i> . <i>Food Chemistry</i> , <b>2011</b> , 126, 1629-35	8.5	33
25	Current Techniques of Growing Algae Using Flue Gas from Exhaust Gas Industry: a Review. <i>Applied Biochemistry and Biotechnology</i> , <b>2016</b> , 178, 1220-38	3.2	29
24	Growth dynamics and the proximate biochemical composition and fatty acid profile of the heterotrophically grown diatom <i>Cyclotella cryptica</i> . <i>Journal of Applied Phycology</i> , <b>2010</b> , 22, 165-171	3.2	26
23	Polyunsaturated fatty acids (PUFAs) content of the fungus <i>Mortierella alpina</i> isolated from soil. <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 3960-6	5.7	26
22	Comparative analyses of aromas of fresh, naringinase-treated and resin-absorbed juices of pummelo by GC-MS and sensory evaluation. <i>Flavour and Fragrance Journal</i> , <b>2015</b> , 30, 245-253	2.5	24
21	Treatment of proteins with dietary polyphenols lowers the formation of AGEs and AGE-induced toxicity. <i>Food and Function</i> , <b>2014</b> , 5, 2656-61	6.1	23
20	Perfusion culture of the diatom <i>Nitzschia laevis</i> for ultra-high yield of eicosapentaenoic acid. <i>Process Biochemistry</i> , <b>2002</b> , 38, 523-529	4.8	23
19	Continuous cultivation of the diatom <i>Nitzschia laevis</i> for eicosapentaenoic acid production: physiological study and process optimization. <i>Biotechnology Progress</i> , <b>2002</b> , 18, 21-8	2.8	23
18	The colorants, antioxidants, and toxicants from nonenzymatic browning reactions and the impacts of dietary polyphenols on their thermal formation. <i>Food and Function</i> , <b>2015</b> , 6, 345-55	6.1	22
17	High cell density culture of <i>Chlamydomonas reinhardtii</i> on acetate using fed-batch and hollow-fibre cell-recycle systems. <i>Bioresource Technology</i> , <b>1996</b> , 55, 103-110	11	21
16	Heterotrophic growth and nutritional aspects of the diatom <i>Cyclotella cryptica</i> (Bacillariophyceae): effect of nitrogen source and concentration. <i>Journal of Applied Phycology</i> , <b>2012</b> , 24, 301-307	3.2	20
15	Emissions characteristics of NO <sub>x</sub> and SO <sub>2</sub> in the combustion of microalgae biomass using a tube furnace. <i>Journal of the Energy Institute</i> , <b>2017</b> , 90, 806-812	5.7	20
14	Cynarin-rich sunflower ( <i>Helianthus annuus</i> ) sprouts possess both antiglycative and antioxidant activities. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 3260-5	5.7	19
13	Microalga decreases plasma cholesterol by down-regulation of intestinal NPC1L1, hepatic LDL receptor, and HMG-CoA reductase. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 6790-7	5.7	19
12	Lipid characterization of <i>Mortierella alpina</i> grown at different NaCl concentrations. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 7903-9	5.7	18
11	Regulation of carbon metabolic fluxes in response to CO <sub>2</sub> supplementation in phototrophic <i>Chlorella vulgaris</i> : a cytoxic and biochemical study. <i>Journal of Applied Phycology</i> , <b>2016</b> , 28, 737-745	3.2	16
10	Production of High-Value Products by Marine Microalgae Thraustochytrids <b>2007</b> , 293-323		16
9	Differentiation of <i>Nostoc flagelliforme</i> and its neighboring species using fatty-acid profiling as a chemotaxonomic tool. <i>Current Microbiology</i> , <b>2003</b> , 47, 467-74	2.4	16

8	Peroxynitrite and nitryl chloride enhance astaxanthin production by the green microalga <i>Chlorella zofingiensis</i> in heterotrophic culture. <i>Process Biochemistry</i> , <b>2005</b> , 40, 3595-3599	4.8	16
7	Heterotrophic Production of Algal Oils <b>2014</b> , 111-142		12
6	Rapid Characterization of Fatty Acids in Oleaginous Microalgae by Near-Infrared Spectroscopy. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 7045-56	6.3	11
5	Production of Eicosapentaenoic Acid Using Heterotrophically Grown Microalgae <b>2010</b> , 151-177		5
4	Systematic metabolic tools reveal underlying mechanism of product biosynthesis in <i>Chromochloris zofingiensis</i> . <i>Bioresource Technology</i> , <b>2021</b> , 337, 125406	11	5
3	Microalgae and their biotechnological potential. <i>Journal of Biotechnology</i> , <b>2008</b> , 136, S521	3.7	2
2	Development of Bioprocess Engineering in China. <i>Biotechnology</i> , <b>2004</b> , 4, 1-6	0.1	2
1	Prospects for Eicosapentaenoic Acid Production Using Microorganisms <b>2005</b> ,		1