Feng Chen

List of Publications by Year in Descending Order

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	Systematic metabolic tools reveal underlying mechanism of product biosynthesis in Chromochloris zofingiensis. *Bioresource Technology*, **2021**, 337, 125406	11	5
96	A Hetero-Photoautotrophic Two-Stage Cultivation Process for Production of Fucoxanthin by the Marine Diatom. *Marine Drugs*, **2018**, 16,	6	48
95	High-value biomass from microalgae production platforms: strategies and progress based on carbon metabolism and energy conversion. *Biotechnology for Biofuels*, **2018**, 11, 227	7.8	57
94	Tailoring biomass-derived carbon for high-performance supercapacitors from controllably cultivated algae microspheres. *Journal of Materials Chemistry A*, **2018**, 6, 1523-1530	13	69
93	Emissions characteristics of NOx and SO2 in the combustion of microalgae biomass using a tube furnace. *Journal of the Energy Institute*, **2017**, 90, 806-812	5.7	20
92	Chlorella species as hosts for genetic engineering and expression of heterologous proteins: Progress, challenge and perspective. *Biotechnology Journal*, **2016**, 11, 1244-1261	5.6	46
91	Regulation of carbon metabolic fluxes in response to CO2 supplementation in phototrophic Chlorella vulgaris: a cytomic and biochemical study. *Journal of Applied Phycology*, **2016**, 28, 737-745	3.2	16
90	Current Techniques of Growing Algae Using Flue Gas from Exhaust Gas Industry: a Review. *Applied Biochemistry and Biotechnology*, **2016**, 178, 1220-38	3.2	29
89	Physiological and biochemical changes reveal stress-associated photosynthetic carbon partitioning into triacylglycerol in the oleaginous marine alga Nannochloropsis oculata. *Algal Research*, **2016**, 16, 28-35	5	62
88	Biology and Industrial Applications of Chlorella: Advances and Prospects. *Advances in Biochemical Engineering/Biotechnology*, **2016**, 153, 1-35	1.7	39
87	Lipid Production from Nannochloropsis. *Marine Drugs*, **2016**, 14,	6	164
86	Transcriptome analysis reveals global regulation in response to CO2 supplementation in oleaginous microalga Coccomyxa subellipsoidea C-169. *Biotechnology for Biofuels*, **2016**, 9, 151	7.8	34
85	Rapid Characterization of Fatty Acids in Oleaginous Microalgae by Near-Infrared Spectroscopy. *International Journal of Molecular Sciences*, **2015**, 16, 7045-56	6.3	11
84	Comparative analyses of aromas of fresh, naringinase-treated and resin-absorbed juices of pummelo by GC-MS and sensory evaluation. *Flavour and Fragrance Journal*, **2015**, 30, 245-253	2.5	24
83	The colorants, antioxidants, and toxicants from nonenzymatic browning reactions and the impacts of dietary polyphenols on their thermal formation. *Food and Function*, **2015**, 6, 345-55	6.1	22
82	Light attenuates lipid accumulation while enhancing cell proliferation and starch synthesis in the glucose-fed oleaginous microalga Chlorella zofingiensis. *Scientific Reports*, **2015**, 5, 14936	4.9	33
81	Total phenolic contents and antioxidant capacities of 51 edible and wild flowers. *Journal of Functional Foods*, **2014**, 6, 319-330	5.1	150

80	Treatment of proteins with dietary polyphenols lowers the formation of AGEs and AGE-induced toxicity. *Food and Function*, **2014**, 5, 2656-61	6.1	23
79	Antioxidant and antiglycation activity of selected dietary polyphenols in a cookie model. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 1643-8	5.7	70
78	Microalgal carotenoids: beneficial effects and potential in human health. *Food and Function*, **2014**, 5, 413-25	6.1	116
77	Chlorella zofingiensis as an alternative microalgal producer of astaxanthin: biology and industrial potential. *Marine Drugs*, **2014**, 12, 3487-515	6	174
76	Heterotrophic Production of Algal Oils **2014**, 111-142		12
75	Utilization of cane molasses towards cost-saving astaxanthin production by a Chlorella zofingiensis mutant. *Journal of Applied Phycology*, **2013**, 25, 1447-1456	3.2	58
74	Heterotrophic growth and nutritional aspects of the diatom Cyclotella cryptica (Bacillariophyceae): effect of nitrogen source and concentration. *Journal of Applied Phycology*, **2012**, 24, 301-307	3.2	20
73	Cynarin-rich sunflower (Helianthus annuus) sprouts possess both antiglycative and antioxidant activities. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 3260-5	5.7	19
72	Antioxidant capacities, phenolic compounds and polysaccharide contents of 49 edible macro-fungi. *Food and Function*, **2012**, 3, 1195-205	6.1	88
71	Microalga decreases plasma cholesterol by down-regulation of intestinal NPC1L1, hepatic LDL receptor, and HMG-CoA reductase. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 6790-7	5.7	19
70	Protective actions of microalgae against endogenous and exogenous advanced glycation endproducts (AGEs) in human retinal pigment epithelial cells. *Food and Function*, **2011**, 2, 251-8	6.1	33
69	Astaxanthin is responsible for antiglycoxidative properties of microalga Chlorella zofingiensis. *Food Chemistry*, **2011**, 126, 1629-35	8.5	33
68	Production of Eicosapentaenoic Acid Using Heterotrophically Grown Microalgae **2010**, 151-177		5
67	Beneficial effects of cinnamon proanthocyanidins on the formation of specific advanced glycation endproducts and methylglyoxal-induced impairment on glucose consumption. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 6692-6	5.7	51
66	Heterotrophic growth and nutritional aspects of the diatom Cyclotella cryptica (Bacillariophyceae): Effect of some environmental factors. *Journal of Bioscience and Bioengineering*, **2010**, 109, 235-9	3.3	36
65	Growth dynamics and the proximate biochemical composition and fatty acid profile of the heterotrophically grown diatom Cyclotella cryptica. *Journal of Applied Phycology*, **2010**, 22, 165-171	3.2	26
64	Enhanced production of squalene in the thraustochytrid Aurantiochytrium mangrovei by medium optimization and treatment with terbinafine. *World Journal of Microbiology and Biotechnology*, **2010**, 26, 1303-9	4.4	47
63	Biodiesel production by microalgal biotechnology. *Applied Energy*, **2010**, 87, 38-46	10.7	768

62	Optimization of nitrogen source for enhanced production of squalene from thraustochytrid Aurantiochytrium sp. *New Biotechnology*, **2010**, 27, 382-9	6.4	56
61	Production potential of Chlorella zofingienesis as a feedstock for biodiesel. *Bioresource Technology*, **2010**, 101, 8658-63	11	103
60	The effects of grape seed extract fortification on the antioxidant activity and quality attributes of bread. *Food Chemistry*, **2010**, 119, 49-53	8.5	140
59	Inhibitory effects of microalgal extracts on the formation of advanced glycation endproducts (AGEs). *Food Chemistry*, **2010**, 120, 261-267	8.5	50
58	Inhibition of mutagenic PhIP formation by epigallocatechin gallate via scavenging of phenylacetaldehyde. *Molecular Nutrition and Food Research*, **2009**, 53, 716-25	5.9	53
57	Rapid screening method for lipid production in alga based on Nile red fluorescence. *Biomass and Bioenergy*, **2009**, 33, 1386-1392	5.3	106
56	Antidiabetic activity of Mung bean extracts in diabetic KK-Ay mice. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 8869-73	5.7	90
55	Lipid characterization of Mortierella alpina grown at different NaCl concentrations. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 7903-9	5.7	18
54	Cinnamon bark proanthocyanidins as reactive carbonyl scavengers to prevent the formation of advanced glycation endproducts. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 1907-11	5.7	169
53	Antioxidant properties in vitro and total phenolic contents in methanol extracts from medicinal plants. *LWT - Food Science and Technology*, **2008**, 41, 385-390	5.4	278
52	Microalgae and their biotechnological potential. *Journal of Biotechnology*, **2008**, 136, S521	3.7	2
51	Enhanced production of lutein in heterotrophic Chlorella protothecoides by oxidative stress. *Science in China Series C: Life Sciences*, **2008**, 51, 1088-93		54
50	Inhibitory effect of mung bean extract and its constituents vitexin and isovitexin on the formation of advanced glycation endproducts. *Food Chemistry*, **2008**, 106, 475-481	8.5	164
49	Variation of lipid class composition in Nitzschia laevis as a response to growth temperature change. *Food Chemistry*, **2008**, 109, 88-94	8.5	50
48	Production of High-Value Products by Marine Microalgae Thraustochytrids **2007**, 293-323		16
47	Inhibitory activities of dietary phenolic compounds on heterocyclic amine formation in both chemical model system and beef patties. *Molecular Nutrition and Food Research*, **2007**, 51, 969-76	5.9	86
46	Fatty acid and lipid class composition of the eicosapentaenoic acid-producing microalga, Nitzschia laevis. *Food Chemistry*, **2007**, 104, 1580-1585	8.5	64
45	Polyunsaturated fatty acids (PUFAs) content of the fungus Mortierella alpina isolated from soil. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 3960-6	5.7	26

44	Kinetic modeling of lutein production by heterotrophic Chlorella at various pH and temperatures. *Molecular Nutrition and Food Research*, **2006**, 50, 763-8	5.9	54
43	Isolation and purification of canthaxanthin from the microalga Chlorella zofingiensis by high-speed counter-current chromatography. *Journal of Separation Science*, **2006**, 29, 699-703	3.4	49
42	A systematic survey of antioxidant activity of 30 Chinese medicinal plants using the ferric reducing antioxidant power assay. *Food Chemistry*, **2006**, 97, 705-711	8.5	337
41	Growing phototrophic cells without light. *Biotechnology Letters*, **2006**, 28, 607-16	3	141
40	Prospects for Eicosapentaenoic Acid Production Using Microorganisms **2005**,		1
39	Fatty acid profile of the edible filamentous cyanobacterium Nostoc flagelliforme at different temperatures and developmental stages in liquid suspension culture. *Process Biochemistry*, **2005**, 40, 371-377	4.8	40
38	Production of astaxanthin by the green microalga Chlorella zofingiensis in the dark. *Process Biochemistry*, **2005**, 40, 733-738	4.8	197
37	Employment of reactive oxygen species to enhance astaxanthin formation in Chlorella zofingiensis in heterotrophic culture. *Process Biochemistry*, **2005**, 40, 3491-3496	4.8	85
36	Peroxynitrite and nitryl chloride enhance astaxanthin production by the green microalga Chlorella zofingiensis in heterotrophic culture. *Process Biochemistry*, **2005**, 40, 3595-3599	4.8	16
35	Enhanced production of astaxanthin by the green microalga Chlorella zofingiensis in mixotrophic culture. *Process Biochemistry*, **2004**, 39, 1761-1766	4.8	147
34	Fatty acid composition and squalene content of the marine microalga Schizochytrium mangrovei. *Journal of Agricultural and Food Chemistry*, **2004**, 52, 1196-200	5.7	96
33	Development of Bioprocess Engineering in China. *Biotechnology*, **2004**, 4, 1-6	0.1	2
32	Differentiation of Nostoc flagelliforme and its neighboring species using fatty-acid profiling as a chemotaxonomic tool. *Current Microbiology*, **2003**, 47, 467-74	2.4	16
31	Heterotrophic production of eicosapentaenoic acid by microalgae. *Biotechnology Advances*, **2003**, 21, 273-94	17.8	280
30	High cell density culture of the diatom Nitzschia laevis for eicosapentaenoic acid production: fed-batch development. *Process Biochemistry*, **2002**, 37, 1447-1453	4.8	49
29	Perfusion culture of the diatom Nitzschia laevis for ultra-high yield of eicosapentaenoic acid. *Process Biochemistry*, **2002**, 38, 523-529	4.8	23
28	Continuous cultivation of the diatom Nitzschia laevis for eicosapentaenoic acid production: physiological study and process optimization. *Biotechnology Progress*, **2002**, 18, 21-8	2.8	23
27	High-yield production of lutein by the green microalga Chlorella protothecoides in heterotrophic fed-batch culture. *Biotechnology Progress*, **2002**, 18, 723-7	2.8	148

26	Isolation and purification of lutein from the microalga Chlorella vulgaris by extraction after saponification. *Journal of Agricultural and Food Chemistry*, **2002**, 50, 1070-2	5.7	45
25	Optimization of nitrogen sources for heterotrophic production of eicosapentaenoic acid by the diatom Nitzschia laevis. *Enzyme and Microbial Technology*, **2001**, 29, 341-347	3.8	49
24	Application of statistically-based experimental designs for the optimization of eicosapentaenoic acid production by the diatom Nitzschia laevis. *Biotechnology and Bioengineering*, **2001**, 75, 159-69	4.9	68
23	Preparative isolation and purification of astaxanthin from the microalga Chlorococcum sp. by high-speed counter-current chromatography. *Journal of Chromatography A*, **2001**, 925, 133-7	4.5	45
22	Heterotrophic production of biomass and lutein by Chlorella protothecoides on various nitrogen sources. *Enzyme and Microbial Technology*, **2000**, 27, 312-318	3.8	171
21	Effects of medium glucose concentration and pH on docosahexaenoic acid content of heterotrophic Crypthecodinium cohnii. *Process Biochemistry*, **2000**, 35, 1205-1209	4.8	53
20	Production potential of eicosapentaenoic acid by the diatom Nitzschia laevis. *Biotechnology Letters*, **2000**, 22, 727-733	3	66
19	Effects of temperature and temperature shift on docosahexaenoic acid production by the marine microalge Crypthecodinium cohnii. *JAOCS, Journal of the American Oil ChemistsrSociety*, **2000**, 77, 613-617	1.8	69
18	Production potential of docosahexaenoic acid by the heterotrophic marine dinoflagellate Crypthecodinium cohnii. *Process Biochemistry*, **1999**, 34, 633-637	4.8	85
17	High density cultivation of Panax notoginseng cells in stirred bioreactors for the production of ginseng biomass and ginseng saponin. *Process Biochemistry*, **1999**, 35, 491-496	4.8	34
16	A simple method for efficient separation and purification of c-phycocyanin and allophycocyanin from Spirulina platensis. *Biotechnology Letters*, **1999**, 13, 601-603		60
15	Production of biomass and lutein by Chlorella protothecoides at various glucose concentrations in heterotrophic cultures. *Process Biochemistry*, **1999**, 34, 341-347	4.8	89
14	Eicosapentaenoic acid and docosahexaenoic acid production potential of microalgae and their heterotrophic growth. *JAOCS, Journal of the American Oil ChemistsrSociety*, **1998**, 75, 393-397	1.8	138
13	Separation and Identification of Furanic Compounds in Fruit Juices and Drinks by High-Performance Liquid Chromatography Photodiode Array Detection. *Journal of Agricultural and Food Chemistry*, **1998**, 46, 1286-1291	5.7	42
12	Degradation of Ascorbic Acid in Aqueous Solution. *Journal of Agricultural and Food Chemistry*, **1998**, 46, 5078-5082	5.7	161
11	Heterotrophic production of lutein by selected Chlorella strains. *Journal of Applied Phycology*, **1997**, 9, 445-450	3.2	96
10	Mixotrophic and heterotrophic growth of Haematococcus lacustris and rheological behaviour of the cell suspensions. *Bioresource Technology*, **1997**, 62, 19-24	11	58
9	High cell density mixotrophic culture of Spirulina platensis on glucose for phycocyanin production using a fed-batch system. *Enzyme and Microbial Technology*, **1997**, 20, 221-224	3.8	132

8	High cell density culture of microalgae in heterotrophic growth. *Trends in Biotechnology*, **1996**, 14, 421-426	15.1	278
7	Relationship between substrate inhibition and maintenance energy ofChlamydomonas reinhardtii in heterotrophic culture. *Journal of Applied Phycology*, **1996**, 8, 15-19	3.2	47
6	Heterotrophic growth of Chlamydomonas reinhardtii on acetate in chemostat culture. *Process Biochemistry*, **1996**, 31, 601-604	4.8	70
5	High cell density culture of Chlamydomonas reinhardtii on acetate using fed-batch and hollow-fibre cell-recycle systems. *Bioresource Technology*, **1996**, 55, 103-110	11	21
4	Growth and phycocyanin formation of Spirulina platensis in photoheterotrophic culture. *Biotechnology Letters*, **1996**, 18, 603-608	3	113
3	A strategy for high cell density culture of heterotrophic microalgae with inhibitory substrates. *Journal of Applied Phycology*, **1995**, 7, 43-46	3.2	57
2	Substrate inhibition of Chlamydomonas reinhardtii by acetate in heterotrophic culture. *Process Biochemistry*, **1994**, 29, 245-252	4.8	56
1	Effect of C/N ratio and aeration on the fatty acid composition of heterotrophicChlorella sorokiniana. *Journal of Applied Phycology*, **1991**, 3, 203-209	3.2	168