

# Yong Keun Chang

## List of Publications by Citations

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165  
papers

4,233  
citations

34  
h-index

58  
g-index

170  
ext. papers

4,844  
ext. citations

5.3  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
165	Production of poly(3-hydroxybutyric acid) by fed-batch culture of <i>Alcaligenes eutrophus</i> with glucose concentration control. <i>Biotechnology and Bioengineering</i> , <b>1994</b> , 43, 892-8	4.9	258
164	CRISPR/Cas9-induced knockout and knock-in mutations in <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , <b>2016</b> , 6, 27810	4.9	227
163	Cell disruption and lipid extraction for microalgal biorefineries: A review. <i>Bioresource Technology</i> , <b>2017</b> , 244, 1317-1328	11	182
162	Lactic acid recovery using two-stage electrodialysis and its modelling. <i>Journal of Membrane Science</i> , <b>1998</b> , 145, 53-66	9.6	165
161	Optimization of microbial poly(3-hydroxybutyrate) recover using dispersions of sodium hypochlorite solution and chloroform. <i>Biotechnology and Bioengineering</i> , <b>1994</b> , 44, 256-61	4.9	164
160	Desulfurization of dibenzothiophene and diesel oils by a newly isolated gordona strain, CYKS1. <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 2327-31	4.8	130
159	Production of poly(3-hydroxybutyrate) by high cell density fed-batch culture of <i>Alcaligenes eutrophus</i> with phosphate limitation. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 55, 28-32	4.9	129
158	Preparation and characterization of poly(hydroxybutyrate-co-hydroxyvalerate)/organoclay nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 90, 525-529	2.9	125
157	High-rate continuous production of lactic acid by <i>Lactobacillus rhamnosus</i> in a two-stage membrane cell-recycle bioreactor. <i>Biotechnology and Bioengineering</i> , <b>2001</b> , 73, 25-34	4.9	107
156	Effects of overexpression of a bHLH transcription factor on biomass and lipid production in <i>Nannochloropsis salina</i> . <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 200	7.8	93
155	Increased lipid production by heterologous expression of AtWRI1 transcription factor in. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 231	7.8	69
154	Current status and perspectives of genome editing technology for microalgae. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 267	7.8	65
153	Enhancement of biomass and lipid productivity by overexpression of a bZIP transcription factor in <i>Nannochloropsis salina</i> . <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 331-340	4.9	62
152	Desulfurization of light gas oil in immobilized-cell systems of <i>Gordona</i> sp. CYKS1 and <i>Nocardia</i> sp. CYKS2. <i>FEMS Microbiology Letters</i> , <b>2000</b> , 182, 309-12	2.9	61
151	Removal of organic acid salts from simulated fermentation broth containing succinate by nanofiltration. <i>Journal of Membrane Science</i> , <b>2005</b> , 246, 49-57	9.6	60
150	Desulfurization of diesel oils by a newly isolated dibenzothiophene-degrading <i>Nocardia</i> sp. strain CYKS2. <i>Biotechnology Progress</i> , <b>1998</b> , 14, 851-5	2.8	59
149	Fermentative production of succinic acid from glucose and corn steep liquor by <i>Anaerobiospirillum succiniciproducens</i> . <i>Biotechnology and Bioprocess Engineering</i> , <b>2000</b> , 5, 379-381	3.1	57

148	Wet in situ transesterification of microalgae using ethyl acetate as a co-solvent and reactant. <i>Bioresource Technology</i> , <b>2017</b> , 230, 8-14	11	55
147	Recombinant <i>Ralstonia eutropha</i> engineered to utilize xylose and its use for the production of poly(3-hydroxybutyrate) from sunflower stalk hydrolysate solution. <i>Microbial Cell Factories</i> , <b>2016</b> , 15, 95	6.4	51
146	Enhanced carbon utilization efficiency and FAME production of <i>Chlorella</i> sp. HS2 through combined supplementation of bicarbonate and carbon dioxide. <i>Energy Conversion and Management</i> , <b>2018</b> , 156, 45-52	10.6	49
145	Metabolic engineering of a novel <i>Klebsiella oxytoca</i> strain for enhanced 2,3-butanediol production. <i>Journal of Bioscience and Bioengineering</i> , <b>2013</b> , 116, 186-92	3.3	48
144	Ethanol production using concentrated oak wood hydrolysates and methods to detoxify. <i>Applied Biochemistry and Biotechnology</i> , <b>1999</b> , 77-79, 547-59	3.2	47
143	Truncated light-harvesting chlorophyll antenna size in <i>Chlorella vulgaris</i> improves biomass productivity. <i>Journal of Applied Phycology</i> , <b>2016</b> , 28, 3193-3202	3.2	47
142	Exploration of two-stage cultivation strategies using nitrogen starvation to maximize the lipid productivity in <i>Chlorella</i> sp. HS2. <i>Bioresource Technology</i> , <b>2019</b> , 276, 110-118	11	47
141	Production of a desulfurization biocatalyst by two-stage fermentation and its application for the treatment of model and diesel oils. <i>Biotechnology Progress</i> , <b>2001</b> , 17, 876-80	2.8	46
140	Effect of operating parameters on precipitation for recovery of lactic acid from calcium lactate fermentation broth. <i>Korean Journal of Chemical Engineering</i> , <b>2011</b> , 28, 1969-1974	2.8	41
139	Adaptive control of dissolved oxygen concentration in a bioreactor. <i>Biotechnology and Bioengineering</i> , <b>1991</b> , 37, 597-607	4.9	41
138	Economical DHA (Docosahexaenoic acid) production from <i>Aurantiochytrium</i> sp. KRS101 using orange peel extract and low cost nitrogen sources. <i>Algal Research</i> , <b>2018</b> , 29, 71-79	5	41
137	Separation of galactose, 5-hydroxymethylfurfural and levulinic acid in acid hydrolysate of agarose by nanofiltration and electro dialysis. <i>Bioresource Technology</i> , <b>2013</b> , 140, 64-72	11	40
136	Desulfurization of model and diesel oils by resting cells of <i>Gordona</i> sp.. <i>Biotechnology Letters</i> , <b>2000</b> , 22, 193-196	3	39
135	Continuous ethanol production from concentrated wood hydrolysates in an internal membrane-filtration bioreactor. <i>Biotechnology Progress</i> , <b>2000</b> , 16, 302-4	2.8	38
134	Ethanol production from galactose by a newly isolated <i>Saccharomyces cerevisiae</i> KL17. <i>Bioprocess and Biosystems Engineering</i> , <b>2014</b> , 37, 1871-8	3.7	37
133	Evaluation of various harvesting methods for high-density microalgae, <i>Aurantiochytrium</i> sp. KRS101. <i>Bioresource Technology</i> , <b>2015</b> , 198, 828-35	11	34
132	Recovery of poly(3-hydroxybutyrate) from high cell density culture of <i>Ralstonia eutropha</i> by direct addition of sodium dodecyl sulfate. <i>Biotechnology Letters</i> , <b>2003</b> , 25, 55-9	3	34
131	Cultivation of <i>Chlorella vulgaris</i> with swine wastewater and potential for algal biodiesel production. <i>Journal of Applied Phycology</i> , <b>2017</b> , 29, 1171-1178	3.2	33

130	Cloning, expression, and biochemical characterization of a novel GH16 $\beta$ agarase AgaG1 from <i>Alteromonas</i> sp. GNUM-1. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 4545-55	5.7	33
129	Improvement of biomass and lipid yield under stress conditions by using diploid strains of <i>Chlamydomonas reinhardtii</i> . <i>Algal Research</i> , <b>2017</b> , 26, 180-189	5	32
128	A physiological study on growth and dibenzothiophene (DBT) desulfurization characteristics of <i>Gordonia</i> sp. CYKS1. <i>Korean Journal of Chemical Engineering</i> , <b>2004</b> , 21, 436-441	2.8	32
127	Effect of pH on the extraction characteristics of succinic and formic acids with Tri-n-octylamine dissolved in 1-octanol. <i>Biotechnology and Bioprocess Engineering</i> , <b>2001</b> , 6, 347-351	3.1	32
126	Axenic cultures for microalgal biotechnology: Establishment, assessment, maintenance, and applications. <i>Biotechnology Advances</i> , <b>2018</b> , 36, 380-396	17.8	31
125	2,3-Butanediol recovery from fermentation broth by alcohol precipitation and vacuum distillation. <i>Journal of Bioscience and Bioengineering</i> , <b>2014</b> , 117, 464-70	3.3	29
124	Acidic pH shock induces the expressions of a wide range of stress-response genes. <i>BMC Genomics</i> , <b>2008</b> , 9, 604	4.5	28
123	A new method to produce cellulose nanofibrils from microalgae and the measurement of their mechanical strength. <i>Carbohydrate Polymers</i> , <b>2018</b> , 180, 276-285	10.3	27
122	Pilot scale production of poly(3-hydroxybutyrate-co-3-hydroxy-valerate) by fed-batch culture of recombinant <i>Escherichia coli</i> . <i>Biotechnology and Bioprocess Engineering</i> , <b>2002</b> , 7, 371-374	3.1	26
121	Hybrid operation of photobioreactor and wastewater-fed open raceway ponds enhances the dominance of target algal species and algal biomass production. <i>Algal Research</i> , <b>2018</b> , 29, 319-329	5	26
120	Heterologous expression of a newly screened $\beta$ agarase from <i>Alteromonas</i> sp. GNUM1 in <i>Escherichia coli</i> and its application for agarose degradation. <i>Process Biochemistry</i> , <b>2014</b> , 49, 430-436	4.8	25
119	Transcriptional Regulation of Cellulose Biosynthesis during the Early Phase of Nitrogen Deprivation in <i>Nannochloropsis salina</i> . <i>Scientific Reports</i> , <b>2017</b> , 7, 5264	4.9	25
118	pH shock induces overexpression of regulatory and biosynthetic genes for actinorhodin production in <i>Streptomyces coelicolor</i> A3(2). <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 76, 1119-30	5.7	25
117	Biocatalytic desulfurization of diesel oil in an air-lift reactor with immobilized <i>Gordonia nitida</i> CYKS1 cells. <i>Biotechnology Progress</i> , <b>2005</b> , 21, 781-5	2.8	24
116	Heterologous overexpression of sfCherry fluorescent protein in. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , <b>2015</b> , 8, 10-15	5.3	22
115	Enhancement of lipid productivity by adopting multi-stage continuous cultivation strategy in <i>Nannochloropsis gaditana</i> . <i>Bioresource Technology</i> , <b>2017</b> , 229, 20-25	11	21
114	Selective removal of rotifers in microalgae cultivation using hydrodynamic cavitation. <i>Algal Research</i> , <b>2017</b> , 28, 24-29	5	21
113	Carbon balance of major volatile fatty acids (VFAs) in recycling algal residue via a VFA-platform for reproduction of algal biomass. <i>Journal of Environmental Management</i> , <b>2019</b> , 237, 228-234	7.9	20

112	Recovery of lactic acid from fermentation broth by the two-stage process of nanofiltration and water-splitting electrodialysis. <i>Biotechnology and Bioprocess Engineering</i> , <b>2006</b> , 11, 313-318	3.1	20
111	Enhancement of phase separation by the addition of de-emulsifiers to three-phase (diesel oil/biocatalyst/aqueous phase) emulsion in diesel biodesulfurization. <i>Biotechnology Letters</i> , <b>2003</b> , 25, 73-7	3	20
110	Effects of Fatty Acid Compositions on Heavy Oligomer Formation and Catalyst Deactivation during Deoxygenation of Triglycerides. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 17168-17177	8.3	20
109	Statistical optimization of light intensity and CO concentration for lipid production derived from attached cultivation of green microalga <i>Ettlia</i> sp. <i>Scientific Reports</i> , <b>2018</b> , 8, 15390	4.9	19
108	Recovery of ammonium lactate and removal of hardness from fermentation broth by nanofiltration. <i>Biotechnology Progress</i> , <b>2004</b> , 20, 764-70	2.8	18
107	Dissolved oxygen concentration regulation using auto-tuning proportional-integral-derivative controller in fermentation process. <i>Biotechnology Letters</i> , <b>1991</b> , 5, 85-90		18
106	Increased biomass and lipid production by continuous cultivation of <i>Nannochloropsis salina</i> transformant overexpressing a bHLH transcription factor. <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 555-568	4.9	18
105	High shear-assisted solvent extraction of lipid from wet biomass of <i>Aurantiochytrium</i> sp. KRS101. <i>Separation and Purification Technology</i> , <b>2019</b> , 227, 115666	8.3	17
104	Size-dependent flocculation behavior of colloidal Au nanoparticles modified with various biomolecules. <i>Ultramicroscopy</i> , <b>2008</b> , 108, 1273-7	3.1	17
103	MAPK/ERK and JNK pathways regulate lipid synthesis and cell growth of <i>Chlamydomonas reinhardtii</i> under osmotic stress, respectively. <i>Scientific Reports</i> , <b>2018</b> , 8, 13857	4.9	17
102	Production of 5-hydroxymethylfurfural from agarose by using a solid acid catalyst in dimethyl sulfoxide. <i>RSC Advances</i> , <b>2015</b> , 5, 47983-47989	3.7	16
101	Application of biosurfactant from <i>Bacillus subtilis</i> C9 for controlling cladoceran grazers in algal cultivation systems. <i>Scientific Reports</i> , <b>2018</b> , 8, 5365	4.9	16
100	Synergistic interaction between metal ions in the sea salts and the extracellular polymeric substances for efficient microalgal harvesting. <i>Algal Research</i> , <b>2016</b> , 14, 79-82	5	16
99	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
98	Production of soluble human interleukin-6 in cytoplasm by fed-batch culture of recombinant <i>E. coli</i> . <i>Biotechnology Progress</i> , <b>2005</b> , 21, 524-31	2.8	16
97	Enhancement of kasugamycin production by pH shock in batch cultures of <i>Streptomyces kasugaensis</i> . <i>Biotechnology Progress</i> , <b>2000</b> , 16, 548-52	2.8	16
96	Performance evaluation of different cationic flocculants through pH modulation for efficient harvesting of <i>Chlorella</i> sp. HS2 and their impact on water reusability. <i>Renewable Energy</i> , <b>2019</b> , 136, 819-827	8.1	15
95	Production of 2,3-butanediol by <i>Klebsiella oxytoca</i> from various sugars in microalgal hydrolysate. <i>Biotechnology Progress</i> , <b>2015</b> , 31, 1669-75	2.8	15

94	Application of a Dowex-50WX8 chromatographic process to the preparative-scale separation of galactose, levulinic acid, and 5-hydroxymethylfurfural in acid hydrolysate of agarose. <i>Separation and Purification Technology</i> , <b>2014</b> , 133, 297-302	8.3	15
93	Optimization of heterotrophic cultivation of <i>Chlorella</i> sp. HS2 using screening, statistical assessment, and validation. <i>Scientific Reports</i> , <b>2019</b> , 9, 19383	4.9	15
92	Heterologous synthesis of chlorophyll in enhances growth and lipid production by increasing photosynthetic efficiency. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 122	7.8	14
91	Production of DagA and ethanol by sequential utilization of sugars in a mixed-sugar medium simulating microalgal hydrolysate. <i>Bioresource Technology</i> , <b>2015</b> , 191, 414-9	11	14
90	Simultaneous cell disruption and lipid extraction of wet aurantiochytrium sp. KRS101 using a high shear mixer. <i>Bioprocess and Biosystems Engineering</i> , <b>2018</b> , 41, 671-678	3.7	14
89	Continuous culture of immobilized streptomyces cells for kasugamycin production. <i>Biotechnology Progress</i> , <b>2001</b> , 17, 453-61	2.8	14
88	Effect of post-treatment process of microalgal hydrolysate on bioethanol production. <i>Scientific Reports</i> , <b>2020</b> , 10, 16698	4.9	14
87	Harvesting of <i>Scenedesmus obliquus</i> cultivated in seawater using electro-flotation. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 62-65	2.8	13
86	Development and characterization of a mutant with simultaneously enhanced growth and lipid production. <i>Biotechnology for Biofuels</i> , <b>2020</b> , 13, 38	7.8	13
85	A mathematical model of intracellular behavior of microalgae for predicting growth and intracellular components syntheses under nutrient-replete and -deplete conditions. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 2441-2455	4.9	13
84	Bioethanol production by heterologous expression of Pdc and AdhII in <i>Streptomyces lividans</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 6089-97	5.7	13
83	Recovery of poly(3-hydroxybutyrate) from coagulated <i>Ralstonia eutropha</i> using a chemical digestion method. <i>Biotechnology Progress</i> , <b>2000</b> , 16, 676-9	2.8	13
82	Production of high-purity fucose from the seaweed of <i>Undaria pinnatifida</i> through acid-hydrolysis and simulated-moving bed purification. <i>Separation and Purification Technology</i> , <b>2019</b> , 213, 133-141	8.3	13
81	Turbulent jet-assisted microfiltration for energy efficient harvesting of microalgae. <i>Journal of Membrane Science</i> , <b>2019</b> , 575, 170-178	9.6	13
80	A hydrogel-coated membrane for highly efficient separation of microalgal bio-lipid. <i>Korean Journal of Chemical Engineering</i> , <b>2018</b> , 35, 1319-1327	2.8	13
79	Efficient solvothermal wet in situ transesterification of <i>Nannochloropsis gaditana</i> for biodiesel production. <i>Bioprocess and Biosystems Engineering</i> , <b>2017</b> , 40, 723-730	3.7	12
78	Utilization of the acid hydrolysate of defatted <i>Chlorella</i> biomass as a sole fermentation substrate for the production of biosurfactant from <i>Bacillus subtilis</i> C9. <i>Algal Research</i> , <b>2020</b> , 47, 101868	5	12
77	Wavelength shift strategy to enhance lipid productivity of. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 70	7.8	12

76	Characteristics and Performance of an Autotuning Proportional Integral Derivative Controller for Dissolved Oxygen Concentration. <i>Biotechnology Progress</i> , <b>1994</b> , 10, 447-450	2.8	12
75	Light intensity control as a strategy to improve lipid productivity in <i>Chlorella</i> sp. HS2 for biodiesel production. <i>Biomass and Bioenergy</i> , <b>2019</b> , 126, 211-219	5.3	11
74	Design and Evaluation of Sustainable Lactide Production Process with an One-Step Gas Phase Synthesis Route. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6178-6184	8.3	11
73	Metabolic engineering of <i>Klebsiella pneumoniae</i> and in silico investigation for enhanced 2,3-butanediol production. <i>Biotechnology Letters</i> , <b>2016</b> , 38, 975-82	3	11
72	Optimization of electroporation-based multiple pulses and further improvement of transformation efficiency using bacterial conditioned medium for <i>Nannochloropsis salina</i> . <i>Journal of Applied Phycology</i> , <b>2019</b> , 31, 1153-1161	3.2	11
71	Optimum Utilization of Biochemical Components in <i>Chlorella</i> sp. KR1 via Subcritical Hydrothermal Liquefaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 7240-7248	8.3	11
70	Towards Managing Food-Web Structure and Algal Crop Diversity in Industrial-Scale Algal Biomass Production. <i>Current Biotechnology</i> , <b>2016</b> , 5, 118-129	0.6	11
69	Enhancement of lipid production in <i>Nannochloropsis salina</i> by overexpression of endogenous NADP-dependent malic enzyme. <i>Algal Research</i> , <b>2021</b> , 54, 102218	5	11
68	Evaluation of the potential of <i>Chlorella</i> sp. HS2, an algal isolate from a tidal rock pool, as an industrial algal crop under a wide range of abiotic conditions. <i>Journal of Applied Phycology</i> , <b>2019</b> , 31, 2245-2258	3.2	10
67	Simulated moving bed separation of agarose-hydrolyzate components for biofuel production from marine biomass. <i>Journal of Chromatography A</i> , <b>2015</b> , 1406, 231-43	4.5	10
66	Agarose hydrolysis by two-stage enzymatic process and bioethanol production from the hydrolysate. <i>Process Biochemistry</i> , <b>2016</b> , 51, 759-764	4.8	10
65	Development of an efficient process for recovery of fucose in a multi-component mixture of monosugars stemming from defatted microalgal biomass. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 56, 185-195	6.3	10
64	Enhancement of stress tolerance and ethanol production in <i>Saccharomyces cerevisiae</i> by heterologous expression of a trehalose biosynthetic gene from <i>Streptomyces albus</i> . <i>Biotechnology and Bioprocess Engineering</i> , <b>2012</b> , 17, 986-996	3.1	10
63	Comparison and optimization of poly(3-hydroxybutyrate) recovery from <i>Alcaligenes eutrophus</i> and recombinant <i>Escherichia coli</i> . <i>Korean Journal of Chemical Engineering</i> , <b>1998</b> , 15, 51-55	2.8	10
62	Efficient transformation of <i>Klebsiella oxytoca</i> by electroporation. <i>Biotechnology and Bioprocess Engineering</i> , <b>1998</b> , 3, 48-49	3.1	10
61	Effects of dissolved oxygen control on cell growth and exopolysaccharides production in batch culture of <i>Agaricus blazei</i> . <i>Korean Journal of Chemical Engineering</i> , <b>2005</b> , 22, 80-84	2.8	10
60	Harvesting of <i>Scenedesmus obliquus</i> using dynamic filtration with a perforated disk. <i>Journal of Membrane Science</i> , <b>2016</b> , 517, 14-20	9.6	10
59	Development of sporulation/immobilization method and its application for the continuous production of cyclosporin A by <i>Tolypocladium inflatum</i> . <i>Biotechnology Progress</i> , <b>1997</b> , 13, 546-50	2.8	9

58	Production of DagA, a $\beta$ -glucanase, by streptomyces lividans in glucose medium or mixed-sugar medium simulating microalgae hydrolysate. <i>Journal of Microbiology and Biotechnology</i> , <b>2014</b> , 24, 1622-8	3.3	9
57	Solvent screening and process optimization for high shear-assisted lipid extraction from wet cake of <i>Nannochloropsis</i> sp.. <i>Renewable Energy</i> , <b>2020</b> , 149, 1395-1405	8.1	9
56	Hydrolysis of Lipid-Extracted <i>Chlorella vulgaris</i> by Simultaneous Use of Solid and Liquid Acids. <i>Biotechnology Progress</i> , <b>2019</b> , 35, e2729	2.8	9
55	Modeling of ammonium lactate recovery and impurity removal from simulated fermentation broth by nanofiltration. <i>Journal of Membrane Science</i> , <b>2012</b> , 396, 110-118	9.6	8
54	Economically Efficient Synthesis of Lactide Using a Solid Catalyst. <i>Organic Process Research and Development</i> , <b>2017</b> , 21, 1980-1984	3.9	8
53	Removal of potassium chloride by nanofiltration from ion-exchanged solution containing potassium clavulanate. <i>Bioprocess and Biosystems Engineering</i> , <b>2010</b> , 33, 149-58	3.7	8
52	By-product formation in cell-recycled continuous culture of <i>Lactobacillus casei</i> . <i>Biotechnology Letters</i> , <b>1997</b> , 19, 237-240	3	8
51	Heterotrophic cultivation of <i>Ettlia</i> sp. based on sequential hydrolysis of <i>Helianthus tuberosus</i> and algal residue. <i>Energy Conversion and Management</i> , <b>2020</b> , 211, 112769	10.6	8
50	Hydrolysis of <i>Golenkinia</i> sp. biomass using Amberlyst 36 and nitric acid as catalysts. <i>Algal Research</i> , <b>2017</b> , 25, 32-38	5	7
49	Engineering of <i>Klebsiella oxytoca</i> for production of 2,3-butanediol via simultaneous utilization of sugars from a <i>Golenkinia</i> sp. hydrolysate. <i>Bioresource Technology</i> , <b>2017</b> , 245, 1386-1392	11	7
48	Dynamical Modeling of Water Flux in Forward Osmosis with Multistage Operation and Sensitivity Analysis of Model Parameters. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 31	3	7
47	Advanced multigene expression system for <i>Nannochloropsis salina</i> using 2A self-cleaving peptides. <i>Journal of Biotechnology</i> , <b>2018</b> , 278, 39-47	3.7	7
46	Development of a pVEC peptide-based ribonucleoprotein (RNP) delivery system for genome editing using CRISPR/Cas9 in <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , <b>2020</b> , 10, 22158	4.9	7
45	Strategic implementation of phosphorus repletion strategy in continuous two-stage cultivation of <i>Chlorella</i> sp. HS2: Evaluation for biofuel applications. <i>Journal of Environmental Management</i> , <b>2020</b> , 271, 111041	7.9	6
44	Recovery of potassium clavulanate from fermentation broth by ion exchange chromatography and desalting electro dialysis. <i>Biotechnology and Bioprocess Engineering</i> , <b>2009</b> , 14, 803-810	3.1	6
43	On-line estimation of cell growth from agitation speed in DO-stat culture of a filamentous microorganism, <i>Agaricus blazei</i> . <i>Biotechnology and Bioprocess Engineering</i> , <b>2005</b> , 10, 571-575	3.1	6
42	Desulfurization of light gas oil in immobilized-cell systems of <i>Gordona</i> sp. CYKS1 and <i>Nocardia</i> sp. CYKS2		6
41	Genetic Impairment of Cellulose Biosynthesis Increases Cell Wall Fragility and Improves Lipid Extractability from Oleaginous Alga. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	6



40	Increased biomass and lipid production of Ettlia sp. YC001 by optimized C and N sources in heterotrophic culture. <i>Scientific Reports</i> , <b>2019</b> , 9, 6830	4.9	5
39	Engineering of Klebsiella oxytoca for production of 2,3-butanediol using mixed sugars derived from lignocellulosic hydrolysates. <i>GCB Bioenergy</i> , <b>2020</b> , 12, 275-286	5.6	5
38	Identification of significant proxy variable for the physiological status affecting salt stress-induced lipid accumulation in HS1. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 242	7.8	5
37	Functional expression of SCO7832 stimulates tautomycin production via pathway-specific regulatory gene overexpression in Streptomyces sp. CK4412. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2009</b> , 36, 993-8	4.2	5
36	Correlation of redox potential with state variables in cultures under controlled dissolved oxygen concentration and pH. <i>Biotechnology Progress</i> , <b>1998</b> , 14, 959-62	2.8	5
35	Effects of Nitrogen Supplementation Status on CO Biofixation and Biofuel Production of the Promising Microalga sp. ABC-001. <i>Journal of Microbiology and Biotechnology</i> , <b>2020</b> , 30, 1235-1243	3.3	5
34	Design optimization of large-scale attached cultivation of Ettlia sp. to maximize biomass production based on simulation of solar irradiation. <i>Applied Energy</i> , <b>2020</b> , 279, 115802	10.7	5
33	Lipid induction of Chlamydomonas reinhardtii CC-124 using bicarbonate ion. <i>Journal of Applied Phycology</i> , <b>2018</b> , 30, 271-275	3.2	4
32	On-line measurement and control of cell concentration of Saccharomyces cerevisiae using a laser turbidimeter. <i>Biotechnology Letters</i> , <b>1995</b> , 9, 557-562		4
31	Preparation and characterization of poly(vinyl alcohol) biocomposites with microalgae ash. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	4
30	Dynamic filtration with a perforated disk for dewatering of Tetraselmis suecica. <i>Environmental Technology (United Kingdom)</i> , <b>2017</b> , 38, 3102-3108	2.6	3
29	Metabolic Engineering Strategies for the Enhanced Microalgal Production of Long-Chain Polyunsaturated Fatty Acids (LC-PUFAs). <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1900043	5.6	3
28	Gene-expression analysis of acidic pH shock effects on two-component systems in Streptomyces coelicolor. <i>Biotechnology and Bioprocess Engineering</i> , <b>2009</b> , 14, 584-590	3.1	3
27	Development of Environmental Monitoring Sensor Using Quartz Crystal Micro-Balance. <i>Molecular Crystals and Liquid Crystals</i> , <b>1995</b> , 267, 405-410		3
26	Effects of medium components on L-ornithine production by Brevibacterium ketoglutamicum. <i>Biotechnology and Bioprocess Engineering</i> , <b>1996</b> , 1, 41-45	3.1	3
25	Enhancement of Lipid Production under Heterotrophic Conditions by Overexpression of an Endogenous bZIP Transcription Factor in sp. HS2. <i>Journal of Microbiology and Biotechnology</i> , <b>2020</b> , 30, 1597-1606	3.3	3
24	Enhanced Lipid Production of sp. HS2 Using Serial Optimization and Heat Shock. <i>Journal of Microbiology and Biotechnology</i> , <b>2020</b> , 30, 136-145	3.3	3
23	Biological Carbon Recovery From Sugar Refinery Washing Water into Microalgal DHA: Medium Optimization and Stress Induction. <i>Scientific Reports</i> , <b>2019</b> , 9, 19959	4.9	3

22	Safe-Harboring based novel genetic toolkit for <i>Nannochloropsis salina</i> CCMP1776: Efficient overexpression of transgene via CRISPR/Cas9-Mediated Knock-in at the transcriptional hotspot. <i>Bioresource Technology</i> , <b>2021</b> , 340, 125676	11	3
21	Green solvent-based extraction of chlorophyll a from <i>Nannochloropsis</i> sp. Using 2,3-butanediol. <i>Separation and Purification Technology</i> , <b>2021</b> , 276, 119248	8.3	3
20	Simulated moving bed purification of fucoidan hydrolysate for an efficient production of fucose with high purity and little loss. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 99, 29-37	5.3	2
19	In situ solvent recovery by using hydrophobic/oleophilic filter during wet lipid extraction from microalgae. <i>Bioprocess and Biosystems Engineering</i> , <b>2019</b> , 42, 1447-1455	3.7	2
18	Repeated-batch culture of immobilized <i>Gibberella fujikuroi</i> B9 for gibberellic acid production: An optimization study. <i>Biotechnology and Bioprocess Engineering</i> , <b>2006</b> , 11, 544-549	3.1	2
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13	Estimation of specific growth rate from agitation speed in DO-stat culture. <i>Biotechnology Letters</i> , <b>1996</b> , 10, 303		1
12	Directed evolution of <i>Chlorella</i> sp. HS2 towards enhanced lipid accumulation by ethyl methanesulfonate mutagenesis in conjunction with fluorescence-activated cell sorting based screening. <i>Fuel</i> , <b>2022</b> , 316, 123410	7.1	1
11	Transcriptomic responses associated with carbon and energy flows under high salinity stress suggest the overflow of acetyl-CoA from glycolysis and NADPH co-factor induces high lipid accumulation and halotolerance in <i>Chlorella</i> sp. HS2		1
10	Application of Jerusalem artichoke and lipid-extracted algae hydrolysate for docosahexaenoic acid production by <i>Aurantiochytrium</i> sp. KRS101. <i>Journal of Applied Phycology</i> , <b>2020</b> , 32, 3655-3666	3.2	1
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