

Yong Keun Chang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5768375/publications.pdf>

Version: 2024-02-01

165
papers

5,558
citations

81900

39
h-index

110387

64
g-index

170
all docs

170
docs citations

170
times ranked

5371
citing authors

#	ARTICLE	IF	CITATIONS
1	CRISPR/Cas9-induced knockout and knock-in mutations in <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , 2016, 6, 27810.	3.3	315
2	Production of poly(3-hydroxybutyric acid) by fed-batch culture of <i>Alcaligenes eutrophus</i> with glucose concentration control. <i>Biotechnology and Bioengineering</i> , 1994, 43, 892-898.	3.3	294
3	Cell disruption and lipid extraction for microalgal biorefineries: A review. <i>Bioresource Technology</i> , 2017, 244, 1317-1328.	9.6	255
4	Optimization of microbial poly(3-hydroxybutyrate) recover using dispersions of sodium hypochlorite solution and chloroform. <i>Biotechnology and Bioengineering</i> , 1994, 44, 256-261.	3.3	196
5	Lactic acid recovery using two-stage electrodialysis and its modelling. <i>Journal of Membrane Science</i> , 1998, 145, 53-66.	8.2	175
6	Production of poly(3-hydroxybutyrate) by high cell density fed-batch culture of <i>Alcaligenes eutrophus</i> with phosphate limitation. , 1997, 55, 28-32.		162
7	Desulfurization of Dibenzothiophene and Diesel Oils by a Newly Isolated <i>Gordona</i> Strain, CYKS1. <i>Applied and Environmental Microbiology</i> , 1998, 64, 2327-2331.	3.1	159
8	Preparation and characterization of poly(hydroxybutyrate-co-hydroxyvalerate)-organoclay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2003, 90, 525-529.	2.6	133
9	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> , 2001, 73, 25-34.	3.3	119
10	Effects of overexpression of a bHLH transcription factor on biomass and lipid production in <i>Nannochloropsis salina</i> . <i>Biotechnology for Biofuels</i> , 2015, 8, 200.	6.2	112
11	Current status and perspectives of genome editing technology for microalgae. <i>Biotechnology for Biofuels</i> , 2017, 10, 267.	6.2	102
12	Increased lipid production by heterologous expression of AtWRI1 transcription factor in <i>Nannochloropsis salina</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 231.	6.2	85
13	Enhancement of biomass and lipid productivity by overexpression of a bZIP transcription factor in <i>Nannochloropsis salina</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 331-340.	3.3	82
14	Truncated light-harvesting chlorophyll antenna size in <i>Chlorella vulgaris</i> improves biomass productivity. <i>Journal of Applied Phycology</i> , 2016, 28, 3193-3202.	2.8	77
15	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> , 2018, 156, 45-52.	9.2	73
16	Exploration of two-stage cultivation strategies using nitrogen starvation to maximize the lipid productivity in <i>Chlorella</i> sp. HS2. <i>Bioresource Technology</i> , 2019, 276, 110-118.	9.6	71
17	Removal of organic acid salts from simulated fermentation broth containing succinate by nanofiltration. <i>Journal of Membrane Science</i> , 2005, 246, 49-57.	8.2	69
18	Desulfurization of Diesel Oils by a Newly Isolated Dibenzothiophene-Degrading <i>Nocardia</i> sp. Strain CYKS2. <i>Biotechnology Progress</i> , 1998, 14, 851-855.	2.6	68

#	ARTICLE	IF	CITATIONS
19	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> , 2000, 182, 309-312.	1.8	68
20	Wet in situ transesterification of microalgae using ethyl acetate as a co-solvent and reactant. <i>Bioresource Technology</i> , 2017, 230, 8-14.	9.6	67
21	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> , 2016, 15, 95.	4.0	66
22	Fermentative production of succinic acid from glucose and corn steep liquor by <i>Anaerobiospirillum succiniciproducens</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2000, 5, 379-381.	2.6	65
23	Axenic cultures for microalgal biotechnology: Establishment, assessment, maintenance, and applications. <i>Biotechnology Advances</i> , 2018, 36, 380-396.	11.7	64
24	Ethanol Production Using Concentrated Oak Wood Hydrolysates and Methods to Detoxify. <i>Applied Biochemistry and Biotechnology</i> , 1999, 78, 547-560.	2.9	63
25	Economical DHA (Docosahexaenoic acid) production from <i>Aurantiochytrium</i> sp. KRS101 using orange peel extract and low cost nitrogen sources. <i>Algal Research</i> , 2018, 29, 71-79.	4.6	58
26	Effect of operating parameters on precipitation for recovery of lactic acid from calcium lactate fermentation broth. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1969-1974.	2.7	57
27	Cloning, expression, and biochemical characterization of a novel GH16 β -agarase AgaG1 from <i>Alteromonas</i> sp. GNUM-1. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 4545-4555.	3.6	57
28	Separation of galactose, 5-hydroxymethylfurfural and levulinic acid in acid hydrolysate of agarose by nanofiltration and electrodialysis. <i>Bioresource Technology</i> , 2013, 140, 64-72.	9.6	55
29	Metabolic engineering of a novel <i>Klebsiella oxytoca</i> strain for enhanced 2,3-butanediol production. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 186-192.	2.2	53
30	Production of a Desulfurization Biocatalyst by Two-Stage Fermentation and Its Application for the Treatment of Model and Diesel Oils. <i>Biotechnology Progress</i> , 2001, 17, 876-880.	2.6	51
31	Ethanol production from galactose by a newly isolated <i>Saccharomyces cerevisiae</i> KL17. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1871-1878.	3.4	50
32	A new method to produce cellulose nanofibrils from microalgae and the measurement of their mechanical strength. <i>Carbohydrate Polymers</i> , 2018, 180, 276-285.	10.2	46
33	Adaptive control of dissolved oxygen concentration in a bioreactor. <i>Biotechnology and Bioengineering</i> , 1991, 37, 597-607.	3.3	45
34	Desulfurization of model and diesel oils by resting cells of <i>Gordona</i> sp.. <i>Biotechnology Letters</i> , 2000, 22, 193-196.	2.2	45
35	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> , 2003, 25, 55-59.	2.2	44
36	Acidic pH shock induces the expressions of a wide range of stress-response genes. <i>BMC Genomics</i> , 2008, 9, 604.	2.8	44

#	ARTICLE	IF	CITATIONS
37	Cultivation of <i>Chlorella vulgaris</i> with swine wastewater and potential for algal biodiesel production. <i>Journal of Applied Phycology</i> , 2017, 29, 1171-1178.	2.8	43
38	Continuous Ethanol Production from Concentrated Wood Hydrolysates in an Internal Membrane-Filtration Bioreactor. <i>Biotechnology Progress</i> , 2000, 16, 302-304.	2.6	42
39	Evaluation of various harvesting methods for high-density microalgae, <i>Aurantiochytrium</i> sp. KRS101. <i>Bioresource Technology</i> , 2015, 198, 828-835.	9.6	42
40	2,3-Butanediol recovery from fermentation broth by alcohol precipitation and vacuum distillation. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 464-470.	2.2	41
41	Improvement of biomass and lipid yield under stress conditions by using diploid strains of <i>Chlamydomonas reinhardtii</i> . <i>Algal Research</i> , 2017, 26, 180-189.	4.6	41
42	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> , 2018, 29, 319-329.	4.6	38
43	A physiological study on growth and dibenzothiophene (DBT) desulfurization characteristics of <i>Gordonia</i> sp. CYKS1. <i>Korean Journal of Chemical Engineering</i> , 2004, 21, 436-441.	2.7	35
44	Heterologous expression of a newly screened β -agarase from <i>Alteromonas</i> sp. GNUM1 in <i>Escherichia coli</i> and its application for agarose degradation. <i>Process Biochemistry</i> , 2014, 49, 430-436.	3.7	34
45	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> , 2001, 6, 347-351.	2.6	33
46	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> , 2007, 76, 1119-1130.	3.6	33
47	Transcriptional Regulation of Cellulose Biosynthesis during the Early Phase of Nitrogen Deprivation in <i>Nannochloropsis salina</i> . <i>Scientific Reports</i> , 2017, 7, 5264.	3.3	32
48	Optimization of heterotrophic cultivation of <i>Chlorella</i> sp. HS2 using screening, statistical assessment, and validation. <i>Scientific Reports</i> , 2019, 9, 19383.	3.3	30
49	Selective removal of rotifers in microalgae cultivation using hydrodynamic cavitation. <i>Algal Research</i> , 2017, 28, 24-29.	4.6	29
50	Effects of Fatty Acid Compositions on Heavy Oligomer Formation and Catalyst Deactivation during Deoxygenation of Triglycerides. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 17168-17177.	6.7	29
51	Heterologous overexpression of sfCherry fluorescent protein in <i>Nannochloropsis salina</i> . <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015, 8, 10-15.	4.4	28
52	Statistical optimization of light intensity and CO ₂ concentration for lipid production derived from attached cultivation of <i>Agaricella</i> microalga <i>Ettlia</i> sp.. <i>Scientific Reports</i> , 2018, 8, 15390.	3.3	28
53	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> , 2019, 237, 228-234.	7.8	28
54	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> , 2002, 7, 371-374.	2.6	27

#	ARTICLE	IF	CITATIONS
55	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> , 2019, 136, 819-827.	8.9	27
56	Heterologous synthesis of chlorophyll b in <i>Nannochloropsis salina</i> enhances growth and lipid production by increasing photosynthetic efficiency. <i>Biotechnology for Biofuels</i> , 2019, 12, 122.	6.2	27
57	Enhancement of lipid production in <i>Nannochloropsis salina</i> by overexpression of endogenous NADP-dependent malic enzyme. <i>Algal Research</i> , 2021, 54, 102218.	4.6	27
58	Enhancement of lipid productivity by adopting multi-stage continuous cultivation strategy in <i>Nannochloropsis gaditana</i> . <i>Bioresource Technology</i> , 2017, 229, 20-25.	9.6	26
59	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> , 2019, 31, 2245-2258.	2.8	26
60	Biocatalytic Desulfurization of Diesel Oil in an Air-Lift Reactor with Immobilized <i>Gordonia nitida</i> CYKS1 Cells. <i>Biotechnology Progress</i> , 2008, 21, 781-785.	2.6	25
61	High shear-assisted solvent extraction of lipid from wet biomass of <i>Aurantiochytrium</i> sp. KRS101. <i>Separation and Purification Technology</i> , 2019, 227, 115666.	7.9	25
62	Effect of post-treatment process of microalgal hydrolysate on bioethanol production. <i>Scientific Reports</i> , 2020, 10, 16698.	3.3	25
63	Production of 5-hydroxymethylfurfural from agarose by using a solid acid catalyst in dimethyl sulfoxide. <i>RSC Advances</i> , 2015, 5, 47983-47989.	3.6	24
64	Dissolved oxygen concentration regulation using auto-tuning proportional-integral-derivative controller in fermentation process. <i>Biotechnology Letters</i> , 1991, 5, 85-90.	0.5	23
65	Recovery of lactic acid from fermentation broth by the two-stage process of nanofiltration and water-splitting electrodialysis. <i>Biotechnology and Bioprocess Engineering</i> , 2006, 11, 313-318.	2.6	23
66	Isolation, phenotypic characterization and genome wide analysis of a <i>Chlamydomonas reinhardtii</i> strain naturally modified under laboratory conditions: towards enhanced microalgal biomass and lipid production for biofuels. <i>Biotechnology for Biofuels</i> , 2017, 10, 308.	6.2	23
67	MAPK/ERK and JNK pathways regulate lipid synthesis and cell growth of <i>Chlamydomonas reinhardtii</i> under osmotic stress, respectively. <i>Scientific Reports</i> , 2018, 8, 13857.	3.3	23
68	Increased biomass and lipid production by continuous cultivation of <i>Nannochloropsis salina</i> transformant overexpressing a bHLH transcription factor. <i>Biotechnology and Bioengineering</i> , 2019, 116, 555-568.	3.3	23
69	Enhancement of phase separation by the addition of de-emulsifiers to three-phase (diesel) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 73-77.	2.2	22
70	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> , 2014, 133, 297-302.	7.9	22
71	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> , 2020, 10, 22158.	3.3	22
72	Enhancement of Kasugamycin Production by pH Shock in Batch Cultures of <i>Streptomyces kasugaensis</i> . <i>Biotechnology Progress</i> , 2000, 16, 548-552.	2.6	21

#	ARTICLE	IF	CITATIONS
73	A mathematical model of intracellular behavior of microalgae for predicting growth and intracellular components syntheses under nutrientâ€replete and â€deplete conditions. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2441-2455.	3.3	21
74	Development and characterization of a <i>Nannochloropsis</i> mutant with simultaneously enhanced growth and lipid production. <i>Biotechnology for Biofuels</i> , 2020, 13, 38.	6.2	21
75	Synergistic interaction between metal ions in the sea salts and the extracellular polymeric substances for efficient microalgal harvesting. <i>Algal Research</i> , 2016, 14, 79-82.	4.6	20
76	Application of biosurfactant from <i>Bacillus subtilis</i> C9 for controlling cladoceran grazers in algal cultivation systems. <i>Scientific Reports</i> , 2018, 8, 5365.	3.3	20
77	Light intensity control as a strategy to improve lipid productivity in <i>Chlorella</i> sp. HS2 for biodiesel production. <i>Biomass and Bioenergy</i> , 2019, 126, 211-219.	5.7	20
78	Recovery of Ammonium Lactate and Removal of Hardness from Fermentation Broth by Nanofiltration. <i>Biotechnology Progress</i> , 2004, 20, 764-770.	2.6	19
79	Size-dependent flocculation behavior of colloidal Au nanoparticles modified with various biomolecules. <i>Ultramicroscopy</i> , 2008, 108, 1273-1277.	1.9	19
80	Simultaneous cell disruption and lipid extraction of wet <i>aurantiochytrium</i> sp. KRS101 using a high shear mixer. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 671-678.	3.4	19
81	A hydrogel-coated membrane for highly efficient separation of microalgal bio-lipid. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1319-1327.	2.7	18
82	Wavelength shift strategy to enhance lipid productivity of <i>Nannochloropsis gaditana</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 70.	6.2	18
83	Turbulent jet-assisted microfiltration for energy efficient harvesting of microalgae. <i>Journal of Membrane Science</i> , 2019, 575, 170-178.	8.2	18
84	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> , 2020, 47, 101868.	4.6	18
85	Efficient solvothermal wet in situ transesterification of <i>Nannochloropsis gaditana</i> for biodiesel production. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 723-730.	3.4	17
86	Design and Evaluation of Sustainable Lactide Production Process with an One-Step Gas Phase Synthesis Route. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6178-6184.	6.7	17
87	Continuous Culture of Immobilized <i>Streptomyces</i> Cells for Kasugamycin Production. <i>Biotechnology Progress</i> , 2001, 17, 453-461.	2.6	16
88	Production of Soluble Human Interleukin-6 in Cytoplasm by Fed-Batch Culture of Recombinant <i>E. coli</i> . <i>Biotechnology Progress</i> , 2008, 21, 524-531.	2.6	16
89	Production of 2,3â€butanediol by <i>Klebsiella oxytoca</i> from various sugars in microalgal hydrolysate. <i>Biotechnology Progress</i> , 2015, 31, 1669-1675.	2.6	16
90	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> , 2019, 213, 133-141.	7.9	16

#	ARTICLE	IF	CITATIONS
91	Solvent screening and process optimization for high shear-assisted lipid extraction from wet cake of <i>Nannochloropsis</i> sp.. <i>Renewable Energy</i> , 2020, 149, 1395-1405.	8.9	16
92	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> , 2012, 17, 986-996.	2.6	15
93	Harvesting of <i>Scenedesmus obliquus</i> cultivated in seawater using electro-flotation. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 62-65.	2.7	15
94	Optimum Utilization of Biochemical Components in <i>Chlorella</i> sp. KR1 via Subcritical Hydrothermal Liquefaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7240-7248.	6.7	15
95	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> , 2019, 31, 1153-1161.	2.8	15
96	Dynamical Modeling of Water Flux in Forward Osmosis with Multistage Operation and Sensitivity Analysis of Model Parameters. <i>Water (Switzerland)</i> , 2020, 12, 31.	2.7	15
97	Characteristics and performance of an autotuning proportional integral derivative controller for dissolved oxygen concentration. <i>Biotechnology Progress</i> , 1994, 10, 447-450.	2.6	14
98	Bioethanol production by heterologous expression of Pdc and AdhII in <i>Streptomyces lividans</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6089-6097.	3.6	14
99	Production of DagA and ethanol by sequential utilization of sugars in a mixed-sugar medium simulating microalgal hydrolysate. <i>Bioresource Technology</i> , 2015, 191, 414-419.	9.6	14
100	Economically Efficient Synthesis of Lactide Using a Solid Catalyst. <i>Organic Process Research and Development</i> , 2017, 21, 1980-1984.	2.7	14
101	Recovery of Poly(3-hydroxybutyrate) from Coagulated <i>Ralstonia eutropha</i> Using a Chemical Digestion Method. <i>Biotechnology Progress</i> , 2000, 16, 676-679.	2.6	13
102	Agarose hydrolysis by two-stage enzymatic process and bioethanol production from the hydrolysate. <i>Process Biochemistry</i> , 2016, 51, 759-764.	3.7	13
103	Metabolic engineering of <i>Klebsiella pneumoniae</i> and in silico investigation for enhanced 2,3-butanediol production. <i>Biotechnology Letters</i> , 2016, 38, 975-982.	2.2	13
104	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> , 2021, 340, 125676.	9.6	13
105	Towards Managing Food-Web Structure and Algal Crop Diversity in Industrial-Scale Algal Biomass Production. <i>Current Biotechnology</i> , 2016, 5, 118-129.	0.4	13
106	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> , 2022, 316, 123410.	6.4	13
107	Development of Sporulation/Immobilization Method and Its Application for the Continuous Production of Cyclosporin A by <i>Tolypocladium inflatum</i> . <i>Biotechnology Progress</i> , 1997, 13, 546-550.	2.6	12
108	Simulated moving bed separation of agarose-hydrolyzate components for biofuel production from marine biomass. <i>Journal of Chromatography A</i> , 2015, 1406, 231-243.	3.7	12

#	ARTICLE	IF	CITATIONS
109	Harvesting of <i>Scenedesmus obliquus</i> using dynamic filtration with a perforated disk. <i>Journal of Membrane Science</i> , 2016, 517, 14-20.	8.2	12
110	Advanced multigene expression system for <i>Nannochloropsis salina</i> using 2A self-cleaving peptides. <i>Journal of Biotechnology</i> , 2018, 278, 39-47.	3.8	12
111	Hydrolysis of Lipid-Extracted <i>Chlorella vulgaris</i> by Simultaneous Use of Solid and Liquid Acids. <i>Biotechnology Progress</i> , 2019, 35, e2729.	2.6	12
112	Genetic Impairment of Cellulose Biosynthesis Increases Cell Wall Fragility and Improves Lipid Extractability from Oleaginous Alga <i>Nannochloropsis salina</i> . <i>Microorganisms</i> , 2020, 8, 1195.	3.6	12
113	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> , 2020, 271, 111041.	7.8	12
114	Engineering of <i>Klebsiella oxytoca</i> for production of 2,3-butanediol using mixed sugars derived from lignocellulosic hydrolysates. <i>GCB Bioenergy</i> , 2020, 12, 275-286.	5.6	12
115	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> , 2020, 211, 112769.	9.2	12
116	Photoautotrophic organic acid production: Glycolic acid production by microalgal cultivation. <i>Chemical Engineering Journal</i> , 2022, 433, 133636.	12.7	12
117	Efficient transformation of <i>Klebsiella oxytoca</i> by electroporation. <i>Biotechnology and Bioprocess Engineering</i> , 1998, 3, 48-49.	2.6	11
118	Modeling of ammonium lactate recovery and impurity removal from simulated fermentation broth by nanofiltration. <i>Journal of Membrane Science</i> , 2012, 396, 110-118.	8.2	11
119	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> , 2017, 56, 185-195.	5.8	11
120	Increased biomass and lipid production of <i>Ettlia</i> sp. YC001 by optimized C and N sources in heterotrophic culture. <i>Scientific Reports</i> , 2019, 9, 6830.	3.3	11
121	Production of DagA, a α -D-Glucosidase, by <i>Streptomyces lividans</i> in Glucose Medium or Mixed-Sugar Medium Simulating Microalgae Hydrolysate. <i>Journal of Microbiology and Biotechnology</i> , 2014, 24, 1622-1628.	2.1	11
122	Effects of Nitrogen Supplementation Status on CO ₂ Biofixation and Biofuel Production of the Promising Microalga <i>Chlorella</i> sp. ABC-001. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 1235-1243.	2.1	11
123	By-product formation in cell-recycled continuous culture of <i>Lactobacillus casei</i> . <i>Biotechnology Letters</i> , 1997, 19, 237-240.	2.2	10
124	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> , 1998, 15, 51-55.	2.7	10
125	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> , 2005, 22, 80-84.	2.7	10
126	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> , 2017, 245, 1386-1392.	9.6	10

#	ARTICLE	IF	CITATIONS
127	Metabolic Engineering Strategies for the Enhanced Microalgal Production of Long-Chain Polyunsaturated Fatty Acids (LC-PUFAs). <i>Biotechnology Journal</i> , 2019, 14, e1900043.	3.5	10
128	Removal of potassium chloride by nanofiltration from ion-exchanged solution containing potassium clavulanate. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 149-158.	3.4	9
129	Hydrodynamic cavitation for bacterial disinfection and medium recycling for sustainable <i>Ettlia</i> sp. cultivation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105411.	6.7	8
130	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> , 2005, 10, 571-575.	2.6	7
131	Recovery of potassium clavulanate from fermentation broth by ion exchange chromatography and desalting electrodialysis. <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 803-810.	2.6	7
132	Hydrolysis of <i>Golenkinia</i> sp. biomass using Amberlyst 36 and nitric acid as catalysts. <i>Algal Research</i> , 2017, 25, 32-38.	4.6	7
133	Identification of significant proxy variable for the physiological status affecting salt stress-induced lipid accumulation in <i>Chlorella sorokiniana</i> HS1. <i>Biotechnology for Biofuels</i> , 2019, 12, 242.	6.2	7
134	Biological Carbon Recovery from Sugar Refinery Washing Water into Microalgal DHA: Medium Optimization and Stress Induction. <i>Scientific Reports</i> , 2019, 9, 19959.	3.3	7
135	Design optimization of large-scale attached cultivation of <i>Ettlia</i> sp. to maximize biomass production based on simulation of solar irradiation. <i>Applied Energy</i> , 2020, 279, 115802.	10.1	7
136	Green solvent-based extraction of chlorophyll a from <i>Nannochloropsis</i> sp. Using 2,3-butanediol. <i>Separation and Purification Technology</i> , 2021, 276, 119248.	7.9	7
137	Transcriptomic analysis of <i>Chlorella</i> sp. HS2 suggests the overflow of acetyl-CoA and NADPH cofactor induces high lipid accumulation and halotolerance. <i>Food and Energy Security</i> , 2021, 10, e267.	4.3	7
138	Enhancement of Lipid Production under Heterotrophic Conditions by Overexpression of an Endogenous bZIP Transcription Factor in <i>Chlorella</i> sp. HS2. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 1597-1606.	2.1	7
139	Correlation of Redox Potential with State Variables in Cultures under Controlled Dissolved Oxygen Concentration and pH. <i>Biotechnology Progress</i> , 1998, 14, 959-962.	2.6	6
140	Functional expression of SCO7832 stimulates tautomycin production via pathway-specific regulatory gene overexpression in <i>Streptomyces</i> sp. CK4412. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2009, 36, 993-998.	3.0	6
141	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> , 2020, 32, 3655-3666.	2.8	6
142	Desulfurization of light gas oil in immobilized-cell systems of <i>Gordonia</i> sp. CYKS1 and <i>Nocardia</i> sp. CYKS2. <i>FEMS Microbiology Letters</i> , 2000, 182, 309-312.	1.8	6
143	On-line measurement and control of cell concentration of <i>Saccharomyces cerevisiae</i> using a laser turbidimeter. <i>Biotechnology Letters</i> , 1995, 9, 557-562.	0.5	5
144	Preparation and characterization of poly(vinyl alcohol) biocomposites with microalgae ash. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	5

#	ARTICLE	IF	CITATIONS
145	Effects of medium components on L-ornithine production by <i>Brevibacterium ketoglutamicum</i> . <i>Biotechnology and Bioprocess Engineering</i> , 1996, 1, 41-45.	2.6	4
146	Repeated-batch culture of immobilized <i>Gibberella fujikuroi</i> B9 for gibberellic acid production: An optimization study. <i>Biotechnology and Bioprocess Engineering</i> , 2006, 11, 544-549.	2.6	4
147	Gene-expression analysis of acidic pH shock effects on two-component systems in <i>Streptomyces coelicolor</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 584-590.	2.6	4
148	Dynamic filtration with a perforated disk for dewatering of <i>Tetraselmis suecica</i> . <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 3102-3108.	2.2	4
149	Lipid induction of <i>Chlamydomonas reinhardtii</i> CC-124 using bicarbonate ion. <i>Journal of Applied Phycology</i> , 2018, 30, 271-275.	2.8	4
150	In situ solvent recovery by using hydrophobic/oleophilic filter during wet lipid extraction from microalgae. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 1447-1455.	3.4	4
151	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> , 2019, 99, 29-37.	5.3	4
152	Enhanced Lipid Production of <i>Chlorella</i> sp. HS2 Using Serial Optimization and Heat Shock. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 136-145.	2.1	4
153	Molecular analysis of sugar transporters and glycolysis pathways in <i>Ettlia</i> sp. under heterotrophy using fructose and glucose. <i>Biotechnology Journal</i> , 2022, 17, e2100214.	3.5	4
154	Development of Environmental Monitoring Sensor Using Quartz Crystal Micro-Balance. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 267, 405-410.	0.3	3
155	The first attempt at simulated-moving-bed separation of medically utilizable ingredients from neoagarooligosaccharides generated through the β -agarase hydrolysis of agarose in red algae. <i>Separation and Purification Technology</i> , 2021, 269, 118604.	7.9	3
156	Light Stress after Heterotrophic Cultivation Enhances Lutein and Biofuel Production from a Novel Algal Strain <i>Scenedesmus obliquus</i> ABC-009. <i>Journal of Microbiology and Biotechnology</i> , 2022, 32, 378-386.	2.1	3
157	Engineering of <i>Klebsiella oxytoca</i> for the Production of 2,3-Butanediol from High Concentration of Xylose. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	3
158	Chemicals and Fuels from Microalgae. , 2016, , 1-21.		3
159	Chemicals and Fuels from Microalgae. , 2017, , 33-53.		2
160	Surface-Modified Filter-Based Continuous Recovery of Microalgal Lipid-in-Solvent with High Recovery Efficiency, Long-Term Stability, and Cost Competitiveness. <i>ACS Applied Bio Materials</i> , 2020, 3, 263-272.	4.6	2
161	Estimation of specific growth rate from agitation speed in DO-stat culture. <i>Biotechnology Letters</i> , 1996, 10, 303.	0.5	1
162	Hydrolysis of <i>Golenkinia</i> sp. by Using a Rotating Packed Bed Reactor and Regeneration of Solid Acid Catalyst. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 990-996.	2.6	1

#	ARTICLE	IF	CITATIONS
163	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> , 1997, 55, 28-32.	3.3	1
164	Development of a Cell-Loaded Biosupport Separator for Continuous Immobilized-Cell Perfusion Culture. <i>Biotechnology Progress</i> , 1999, 15, 267-272.	2.6	0
165	Chemicals and Fuels from Microalgae. , 2017, , 1-22.		0