Yong Keun Chang

List of Publications by Year in Descending Order

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	Directed evolution of Chlorella sp. HS2 towards enhanced lipid accumulation by ethyl methanesulfonate mutagenesis in conjunction with fluorescence-activated cell sorting based screening. *Fuel*, **2022**, 316, 123410	7.1	1
164	Photoautotrophic organic acid production: Glycolic acid production by microalgal cultivation. *Chemical Engineering Journal*, **2021**, 133636	14.7	2
163	Molecular analysis of sugar transporters and glycolysis pathways in Ettlia sp. under heterotrophy using fructose and glucose. *Biotechnology Journal*, **2021**, e2100214	5.6	0
162	Enhancement of lipid production in Nannochloropsis salina by overexpression of endogenous NADP-dependent malic enzyme. *Algal Research*, **2021**, 54, 102218	5	11
161	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. *Separation and Purification Technology*, **2021**, 269, 118604	8.3	1
160	Hydrodynamic cavitation for bacterial disinfection and medium recycling for sustainable Ettlia sp. cultivation. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105411	6.8	1
159	Light stress after heterotrophic cultivation enhances lutein and biofuel production from a novel algal strain ABC-009. *Journal of Microbiology and Biotechnology*, **2021**, 32,	3.3	1
158	Safe-Harboring based novel genetic toolkit for Nannochloropsis salina CCMP1776: Efficient overexpression of transgene via CRISPR/Cas9-Mediated Knock-in at the transcriptional hotspot. *Bioresource Technology*, **2021**, 340, 125676	11	3
157	Green solvent-based extraction of chlorophyll a from Nannochloropsis sp. Using 2,3-butanediol. *Separation and Purification Technology*, **2021**, 276, 119248	8.3	3
156	Transcriptomic analysis of Chlorella sp. HS2 suggests the overflow of acetyl-CoA and NADPH cofactor induces high lipid accumulation and halotolerance. *Food and Energy Security*, **2021**, 10, e267	4.1	2
155	Utilization of the acid hydrolysate of defatted Chlorella biomass as a sole fermentation substrate for the production of biosurfactant from Bacillus subtilis C9. *Algal Research*, **2020**, 47, 101868	5	12
154	Development and characterization of a mutant with simultaneously enhanced growth and lipid production. *Biotechnology for Biofuels*, **2020**, 13, 38	7.8	13
153	Dynamical Modeling of Water Flux in Forward Osmosis with Multistage Operation and Sensitivity Analysis of Model Parameters. *Water (Switzerland)*, **2020**, 12, 31	3	7
152	Strategic implementation of phosphorus repletion strategy in continuous two-stage cultivation of Chlorella sp. HS2: Evaluation for biofuel applications. *Journal of Environmental Management*, **2020**, 271, 111041	7.9	6
151	Engineering of Klebsiella oxytoca for production of 2,3-butanediol using mixed sugars derived from lignocellulosic hydrolysates. *GCB Bioenergy*, **2020**, 12, 275-286	5.6	5
150	Enhancement of Lipid Production under Heterotrophic Conditions by Overexpression of an Endogenous bZIP Transcription Factor in sp. HS2. *Journal of Microbiology and Biotechnology*, **2020**, 30, 1597-1606	3.3	3
149	Enhanced Lipid Production of sp. HS2 Using Serial Optimization and Heat Shock. *Journal of Microbiology and Biotechnology*, **2020**, 30, 136-145	3.3	3

148	Effects of Nitrogen Supplementation Status on CO Biofixation and Biofuel Production of the Promising Microalga sp. ABC-001. *Journal of Microbiology and Biotechnology*, **2020**, 30, 1235-1243	3.3	5
147	Solvent screening and process optimization for high shear-assisted lipid extraction from wet cake of Nannochloropsis sp.. *Renewable Energy*, **2020**, 149, 1395-1405	8.1	9
146	Surface-Modified Filter-Based Continuous Recovery of Microalgal Lipid-in-Solvent with High Recovery Efficiency, Long-Term Stability, and Cost Competitiveness.. *ACS Applied Bio Materials*, **2020**, 3, 263-272	4.1	2
145	Effect of post-treatment process of microalgal hydrolysate on bioethanol production. *Scientific Reports*, **2020**, 10, 16698	4.9	14
144	Design optimization of large-scale attached cultivation of Ettlia sp. to maximize biomass production based on simulation of solar irradiation. *Applied Energy*, **2020**, 279, 115802	10.7	5
143	Application of Jerusalem artichoke and lipid-extracted algae hydrolysate for docosahexaenoic acid production by Aurantiochytrium sp. KRS101. *Journal of Applied Phycology*, **2020**, 32, 3655-3666	3.2	1
142	Genetic Impairment of Cellulose Biosynthesis Increases Cell Wall Fragility and Improves Lipid Extractability from Oleaginous Alga. *Microorganisms*, **2020**, 8,	4.9	6
141	Development of a pVEC peptide-based ribonucleoprotein (RNP) delivery system for genome editing using CRISPR/Cas9 in Chlamydomonas reinhardtii. *Scientific Reports*, **2020**, 10, 22158	4.9	7
140	Heterotrophic cultivation of Ettlia sp. based on sequential hydrolysis of Helianthus tuberosus and algal residue. *Energy Conversion and Management*, **2020**, 211, 112769	10.6	8
139	Performance evaluation of different cationic flocculants through pH modulation for efficient harvesting of Chlorella sp. HS2 and their impact on water reusability. *Renewable Energy*, **2019**, 136, 819-827	8.1	15
138	High shear-assisted solvent extraction of lipid from wet biomass of Aurantiochytrium sp. KRS101. *Separation and Purification Technology*, **2019**, 227, 115666	8.3	17
137	Light intensity control as a strategy to improve lipid productivity in Chlorella sp. HS2 for biodiesel production. *Biomass and Bioenergy*, **2019**, 126, 211-219	5.3	11
136	Heterologous synthesis of chlorophyll in enhances growth and lipid production by increasing photosynthetic efficiency. *Biotechnology for Biofuels*, **2019**, 12, 122	7.8	14
135	Increased biomass and lipid production of Ettlia sp. YC001 by optimized C and N sources in heterotrophic culture. *Scientific Reports*, **2019**, 9, 6830	4.9	5
134	Metabolic Engineering Strategies for the Enhanced Microalgal Production of Long-Chain Polyunsaturated Fatty Acids (LC-PUFAs). *Biotechnology Journal*, **2019**, 14, e1900043	5.6	3
133	Design and Evaluation of Sustainable Lactide Production Process with an One-Step Gas Phase Synthesis Route. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 6178-6184	8.3	11
132	Simulated moving bed purification of fucoidan hydrolysate for an efficient production of fucose with high purity and little loss. *Journal of the Taiwan Institute of Chemical Engineers*, **2019**, 99, 29-37	5.3	2
131	Carbon balance of major volatile fatty acids (VFAs) in recycling algal residue via a VFA-platform for reproduction of algal biomass. *Journal of Environmental Management*, **2019**, 237, 228-234	7.9	20

130	Evaluation of the potential of Chlorella sp. HS2, an algal isolate from a tidal rock pool, as an industrial algal crop under a wide range of abiotic conditions. *Journal of Applied Phycology*, **2019**, 31, 2245-2258	3.2	10
129	Optimization of electroporation-based multiple pulses and further improvement of transformation efficiency using bacterial conditioned medium for Nannochloropsis salina. *Journal of Applied Phycology*, **2019**, 31, 1153-1161	3.2	11
128	In situ solvent recovery by using hydrophobic/oleophilic filter during wet lipid extraction from microalgae. *Bioprocess and Biosystems Engineering*, **2019**, 42, 1447-1455	3.7	2
127	Identification of significant proxy variable for the physiological status affecting salt stress-induced lipid accumulation in HS1. *Biotechnology for Biofuels*, **2019**, 12, 242	7.8	5
126	Biological Carbon Recovery from Sugar Refinery Washing Water into Microalgal DHA: Medium Optimization and Stress Induction. *Scientific Reports*, **2019**, 9, 19959	4.9	3
125	Hydrolysis of Golenkinia sp. by Using a Rotating Packed Bed Reactor and Regeneration of Solid Acid Catalyst. *Biotechnology and Bioprocess Engineering*, **2019**, 24, 990-996	3.1	1
124	Optimization of heterotrophic cultivation of Chlorella sp. HS2 using screening, statistical assessment, and validation. *Scientific Reports*, **2019**, 9, 19383	4.9	15
123	Production of high-purity fucose from the seaweed of Undaria pinnatifida through acid-hydrolysis and simulated-moving bed purification. *Separation and Purification Technology*, **2019**, 213, 133-141	8.3	13
122	Exploration of two-stage cultivation strategies using nitrogen starvation to maximize the lipid productivity in Chlorella sp. HS2. *Bioresource Technology*, **2019**, 276, 110-118	11	47
121	Turbulent jet-assisted microfiltration for energy efficient harvesting of microalgae. *Journal of Membrane Science*, **2019**, 575, 170-178	9.6	13
120	Increased biomass and lipid production by continuous cultivation of Nannochloropsis salina transformant overexpressing a bHLH transcription factor. *Biotechnology and Bioengineering*, **2019**, 116, 555-568	4.9	18
119	Hydrolysis of Lipid-Extracted Chlorella vulgaris by Simultaneous Use of Solid and Liquid Acids. *Biotechnology Progress*, **2019**, 35, e2729	2.8	9
118	Simultaneous cell disruption and lipid extraction of wet aurantiochytrium sp. KRS101 using a high shear mixer. *Bioprocess and Biosystems Engineering*, **2018**, 41, 671-678	3.7	14
117	Axenic cultures for microalgal biotechnology: Establishment, assessment, maintenance, and applications. *Biotechnology Advances*, **2018**, 36, 380-396	17.8	31
116	Advanced multigene expression system for Nannochloropsis salina using 2A self-cleaving peptides. *Journal of Biotechnology*, **2018**, 278, 39-47	3.7	7
115	Application of biosurfactant from Bacillus subtilis C9 for controlling cladoceran grazers in algal cultivation systems. *Scientific Reports*, **2018**, 8, 5365	4.9	16
114	Enhancement of biomass and lipid productivity by overexpression of a bZIP transcription factor in Nannochloropsis salina. *Biotechnology and Bioengineering*, **2018**, 115, 331-340	4.9	62
113	A new method to produce cellulose nanofibrils from microalgae and the measurement of their mechanical strength. *Carbohydrate Polymers*, **2018**, 180, 276-285	10.3	27

112	Lipid induction of Chlamydomonas reinhardtii CC-124 using bicarbonate ion. *Journal of Applied Phycology*, **2018**, 30, 271-275	3.2	4
111	Wavelength shift strategy to enhance lipid productivity of. *Biotechnology for Biofuels*, **2018**, 11, 70	7.8	12
110	A mathematical model of intracellular behavior of microalgae for predicting growth and intracellular components syntheses under nutrient-replete and -deplete conditions. *Biotechnology and Bioengineering*, **2018**, 115, 2441-2455	4.9	13
109	Hybrid operation of photobioreactor and wastewater-fed open raceway ponds enhances the dominance of target algal species and algal biomass production. *Algal Research*, **2018**, 29, 319-329	5	26
108	Economical DHA (Docosahexaenoic acid) production from Aurantiochytrium sp. KRS101 using orange peel extract and low cost nitrogen sources. *Algal Research*, **2018**, 29, 71-79	5	41
107	Enhanced carbon utilization efficiency and FAME production of Chlorella sp. HS2 through combined supplementation of bicarbonate and carbon dioxide. *Energy Conversion and Management*, **2018**, 156, 45-52	10.6	49
106	Effects of Fatty Acid Compositions on Heavy Oligomer Formation and Catalyst Deactivation during Deoxygenation of Triglycerides. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 17168-17177	8.3	20
105	Statistical optimization of light intensity and CO concentration for lipid production derived from attached cultivation of green microalga Ettlia sp. *Scientific Reports*, **2018**, 8, 15390	4.9	19
104	MAPK/ERK and JNK pathways regulate lipid synthesis and cell growth of Chlamydomonas reinhardtii under osmotic stress, respectively. *Scientific Reports*, **2018**, 8, 13857	4.9	17
103	A hydrogel-coated membrane for highly efficient separation of microalgal bio-lipid. *Korean Journal of Chemical Engineering*, **2018**, 35, 1319-1327	2.8	13
102	Dynamic filtration with a perforated disk for dewatering of Tetraselmis suecica. *Environmental Technology (United Kingdom)*, **2017**, 38, 3102-3108	2.6	3
101	Wet in situ transesterification of microalgae using ethyl acetate as a co-solvent and reactant. *Bioresource Technology*, **2017**, 230, 8-14	11	55
100	Efficient solvothermal wet in situ transesterification of Nannochloropsis gaditana for biodiesel production. *Bioprocess and Biosystems Engineering*, **2017**, 40, 723-730	3.7	12
99	Hydrolysis of Golenkinia sp. biomass using Amberlyst 36 and nitric acid as catalysts. *Algal Research*, **2017**, 25, 32-38	5	7
98	Cultivation of Chlorella vulgaris with swine wastewater and potential for algal biodiesel production. *Journal of Applied Phycology*, **2017**, 29, 1171-1178	3.2	33
97	Engineering of Klebsiella oxytoca for production of 2,3-butanediol via simultaneous utilization of sugars from a Golenkinia sp. hydrolysate. *Bioresource Technology*, **2017**, 245, 1386-1392	11	7
96	Cell disruption and lipid extraction for microalgal biorefineries: A review. *Bioresource Technology*, **2017**, 244, 1317-1328	11	182
95	Harvesting of Scenedesmus obliquus cultivated in seawater using electro-flotation. *Korean Journal of Chemical Engineering*, **2017**, 34, 62-65	2.8	13

94	Enhancement of lipid productivity by adopting multi-stage continuous cultivation strategy in Nannochloropsis gaditana. *Bioresource Technology*, **2017**, 229, 20-25	11	21
93	Selective removal of rotifers in microalgae cultivation using hydrodynamic cavitation. *Algal Research*, **2017**, 28, 24-29	5	21
92	Current status and perspectives of genome editing technology for microalgae. *Biotechnology for Biofuels*, **2017**, 10, 267	7.8	65
91	Increased lipid production by heterologous expression of AtWRI1 transcription factor in. *Biotechnology for Biofuels*, **2017**, 10, 231	7.8	69
90	Development of an efficient process for recovery of fucose in a multi-component mixture of monosugars stemming from defatted microalgal biomass. *Journal of Industrial and Engineering Chemistry*, **2017**, 56, 185-195	6.3	10
89	Improvement of biomass and lipid yield under stress conditions by using diploid strains of Chlamydomonas reinhardtii. *Algal Research*, **2017**, 26, 180-189	5	32
88	Transcriptional Regulation of Cellulose Biosynthesis during the Early Phase of Nitrogen Deprivation in Nannochloropsis salina. *Scientific Reports*, **2017**, 7, 5264	4.9	25
87	Economically Efficient Synthesis of Lactide Using a Solid Catalyst. *Organic Process Research and Development*, **2017**, 21, 1980-1984	3.9	8
86	Optimum Utilization of Biochemical Components in Chlorella sp. KR1 via Subcritical Hydrothermal Liquefaction. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7240-7248	8.3	11
85	Chemicals and Fuels from Microalgae **2017**, 33-53		0
84	Isolation, phenotypic characterization and genome wide analysis of a strain naturally modified under laboratory conditions: towards enhanced microalgal biomass and lipid production for biofuels. *Biotechnology for Biofuels*, **2017**, 10, 308	7.8	16
83	Chemicals and Fuels from Microalgae **2017**, 1-22		
82	Recombinant Ralstonia eutropha engineered to utilize xylose and its use for the production of poly(3-hydroxybutyrate) from sunflower stalk hydrolysate solution. *Microbial Cell Factories*, **2016**, 15, 95	6.4	51
81	CRISPR/Cas9-induced knockout and knock-in mutations in Chlamydomonas reinhardtii. *Scientific Reports*, **2016**, 6, 27810	4.9	227
80	Synergistic interaction between metal ions in the sea salts and the extracellular polymeric substances for efficient microalgal harvesting. *Algal Research*, **2016**, 14, 79-82	5	16
79	Agarose hydrolysis by two-stage enzymatic process and bioethanol production from the hydrolysate. *Process Biochemistry*, **2016**, 51, 759-764	4.8	10
78	Metabolic engineering of Klebsiella pneumoniae and in silico investigation for enhanced 2,3-butanediol production. *Biotechnology Letters*, **2016**, 38, 975-82	3	11
77	Towards Managing Food-Web Structure and Algal Crop Diversity in Industrial-Scale Algal Biomass Production. *Current Biotechnology*, **2016**, 5, 118-129	0.6	11

76	Chemicals and Fuels from Microalgae **2016**, 1-21		2
75	Harvesting of Scenedesmus obliquus using dynamic filtration with a perforated disk. *Journal of Membrane Science*, **2016**, 517, 14-20	9.6	10
74	Preparation and characterization of poly(vinyl alcohol) biocomposites with microalgae ash. *Journal of Applied Polymer Science*, **2016**, 133,	2.9	4
73	Truncated light-harvesting chlorophyll antenna size in Chlorella vulgaris improves biomass productivity. *Journal of Applied Phycology*, **2016**, 28, 3193-3202	3.2	47
72	Production of DagA and ethanol by sequential utilization of sugars in a mixed-sugar medium simulating microalgal hydrolysate. *Bioresource Technology*, **2015**, 191, 414-9	11	14
71	Simulated moving bed separation of agarose-hydrolyzate components for biofuel production from marine biomass. *Journal of Chromatography A*, **2015**, 1406, 231-43	4.5	10
70	Production of 5-hydroxymethylfurfural from agarose by using a solid acid catalyst in dimethyl sulfoxide. *RSC Advances*, **2015**, 5, 47983-47989	3.7	16
69	Heterologous overexpression of sfCherry fluorescent protein in. *Biotechnology Reports (Amsterdam, Netherlands)*, **2015**, 8, 10-15	5.3	22
68	Production of 2,3-butanediol by Klebsiella oxytoca from various sugars in microalgal hydrolysate. *Biotechnology Progress*, **2015**, 31, 1669-75	2.8	15
67	Effects of overexpression of a bHLH transcription factor on biomass and lipid production in Nannochloropsis salina. *Biotechnology for Biofuels*, **2015**, 8, 200	7.8	93
66	Evaluation of various harvesting methods for high-density microalgae, Aurantiochytrium sp. KRS101. *Bioresource Technology*, **2015**, 198, 828-35	11	34
65	Cloning, expression, and biochemical characterization of a novel GH16 Β-agarase AgaG1 from Alteromonas sp. GNUM-1. *Applied Microbiology and Biotechnology*, **2014**, 98, 4545-55	5.7	33
64	Heterologous expression of a newly screened Β-agarase from Alteromonas sp. GNUM1 in Escherichia coli and its application for agarose degradation. *Process Biochemistry*, **2014**, 49, 430-436	4.8	25
63	2,3-Butanediol recovery from fermentation broth by alcohol precipitation and vacuum distillation. *Journal of Bioscience and Bioengineering*, **2014**, 117, 464-70	3.3	29
62	Ethanol production from galactose by a newly isolated Saccharomyces cerevisiae KL17. *Bioprocess and Biosystems Engineering*, **2014**, 37, 1871-8	3.7	37
61	Application of a Dowex-50WX8 chromatographic process to the preparative-scale separation of galactose, levulinic acid, and 5-hydroxymethylfurfural in acid hydrolysate of agarose. *Separation and Purification Technology*, **2014**, 133, 297-302	8.3	15
60	Production of DagA, a Β-agarase, by streptomyces lividans in glucose medium or mixed-sugar medium simulating microalgae hydrolysate. *Journal of Microbiology and Biotechnology*, **2014**, 24, 1622-8	3.3	9
59	Metabolic engineering of a novel Klebsiella oxytoca strain for enhanced 2,3-butanediol production. *Journal of Bioscience and Bioengineering*, **2013**, 116, 186-92	3.3	48

58	Bioethanol production by heterologous expression of Pdc and AdhII in Streptomyces lividans. *Applied Microbiology and Biotechnology*, **2013**, 97, 6089-97	5.7	13
57	Separation of galactose, 5-hydroxymethylfurfural and levulinic acid in acid hydrolysate of agarose by nanofiltration and electrodialysis. *Bioresource Technology*, **2013**, 140, 64-72	11	40
56	Modeling of ammonium lactate recovery and impurity removal from simulated fermentation broth by nanofiltration. *Journal of Membrane Science*, **2012**, 396, 110-118	9.6	8
55	Enhancement of stress tolerance and ethanol production in Saccharomyces cerevisiae by heterologous expression of a trehalose biosynthetic gene from Streptomyces albus. *Biotechnology and Bioprocess Engineering*, **2012**, 17, 986-996	3.1	10
54	Effect of operating parameters on precipitation for recovery of lactic acid from calcium lactate fermentation broth. *Korean Journal of Chemical Engineering*, **2011**, 28, 1969-1974	2.8	41
53	Removal of potassium chloride by nanofiltration from ion-exchanged solution containing potassium clavulanate. *Bioprocess and Biosystems Engineering*, **2010**, 33, 149-58	3.7	8
52	Functional expression of SCO7832 stimulates tautomycetin production via pathway-specific regulatory gene overexpression in Streptomyces sp. CK4412. *Journal of Industrial Microbiology and Biotechnology*, **2009**, 36, 993-8	4.2	5
51	Recovery of potassium clavulanate from fermentation broth by ion exchange chromatography and desalting electrodialysis. *Biotechnology and Bioprocess Engineering*, **2009**, 14, 803-810	3.1	6
50	Gene-expression analysis of acidic pH shock effects on two-component systems in Streptomyces coelicolor. *Biotechnology and Bioprocess Engineering*, **2009**, 14, 584-590	3.1	3
49	Acidic pH shock induces the expressions of a wide range of stress-response genes. *BMC Genomics*, **2008**, 9, 604	4.5	28
48	Size-dependent flocculation behavior of colloidal Au nanoparticles modified with various biomolecules. *Ultramicroscopy*, **2008**, 108, 1273-7	3.1	17
47	pH shock induces overexpression of regulatory and biosynthetic genes for actinorhodin productionin Streptomyces coelicolor A3(2). *Applied Microbiology and Biotechnology*, **2007**, 76, 1119-30	5.7	25
46	Repeated-batch culture of immobilizedGibberella fujikuroi B9 for gibberellic acid production: An optimization study. *Biotechnology and Bioprocess Engineering*, **2006**, 11, 544-549	3.1	2
45	Recovery of lactic acid from fermentation broth by the two-stage process of nanofiltration and water-splitting electrodialysis. *Biotechnology and Bioprocess Engineering*, **2006**, 11, 313-318	3.1	20
44	Biocatalytic desulfurization of diesel oil in an air-lift reactor with immobilized Gordonia nitida CYKS1 cells. *Biotechnology Progress*, **2005**, 21, 781-5	2.8	24
43	Production of soluble human interleukin-6 in cytoplasm by fed-batch culture of recombinant E. coli. *Biotechnology Progress*, **2005**, 21, 524-31	2.8	16
42	Removal of organic acid salts from simulated fermentation broth containing succinate by nanofiltration. *Journal of Membrane Science*, **2005**, 246, 49-57	9.6	60
41	Effects of dissolved oxygen control on cell growth and exopolysaccharides production in batch culture ofAgaricus blazei. *Korean Journal of Chemical Engineering*, **2005**, 22, 80-84	2.8	10

40	On-line estimation of cell growth from agitation speed in DO-stat culture of a filamentous microorganism,Agaricus blazei. *Biotechnology and Bioprocess Engineering*, **2005**, 10, 571-575	3.1	6
39	Recovery of ammonium lactate and removal of hardness from fermentation broth by nanofiltration. *Biotechnology Progress*, **2004**, 20, 764-70	2.8	18
38	A physiological study on growth and dibenzothiophene (DBT) desulfurization characteristics of Gordonia sp. CYKS1. *Korean Journal of Chemical Engineering*, **2004**, 21, 436-441	2.8	32
37	Recovery of poly(3-hydroxybutyrate) from high cell density culture of Ralstonia eutropha by direct addition of sodium dodecyl sulfate. *Biotechnology Letters*, **2003**, 25, 55-9	3	34
36	Enhancement of phase separation by the addition of de-emulsifiers to three-phase (diesel oil/biocatalyst/aqueous phase) emulsion in diesel biodesulfurization. *Biotechnology Letters*, **2003**, 25, 73-7	3	20
35	Preparation and characterization of poly(hydroxybutyrate-co-hydroxyvalerate)/organoclay nanocomposites. *Journal of Applied Polymer Science*, **2003**, 90, 525-529	2.9	125
34	Pilot scale production of poly(3-hydroxybutyrate-co-3-hydroxy-valerate) by fed-batch culture of recombinantEscherichia coli. *Biotechnology and Bioprocess Engineering*, **2002**, 7, 371-374	3.1	26
33	Effect of pH on the extraction characteristics of succinic and formic acids with Tri-n-octylamine dissolved in 1-octanol. *Biotechnology and Bioprocess Engineering*, **2001**, 6, 347-351	3.1	32
32	High-rate continuous production of lactic acid by Lactobacillus rhamnosus in a two-stage membrane cell-recycle bioreactor. *Biotechnology and Bioengineering*, **2001**, 73, 25-34	4.9	107
31	Continuous culture of immobilized streptomyces cells for kasugamycin production. *Biotechnology Progress*, **2001**, 17, 453-61	2.8	14
30	Production of a desulfurization biocatalyst by two-stage fermentation and its application for the treatment of model and diesel oils. *Biotechnology Progress*, **2001**, 17, 876-80	2.8	46
29	Enhancement of kasugamycin production by pH shock in batch cultures of Streptomyces kasugaensis. *Biotechnology Progress*, **2000**, 16, 548-52	2.8	16
28	Recovery of poly(3-hydroxybutyrate) from coagulated Ralstonia eutropha using a chemical digestion method. *Biotechnology Progress*, **2000**, 16, 676-9	2.8	13
27	Continuous ethanol production from concentrated wood hydrolysates in an internal membrane-filtration bioreactor. *Biotechnology Progress*, **2000**, 16, 302-4	2.8	38
26	Desulfurization of light gas oil in immobilized-cell systems of Gordona sp. CYKS1 and Nocardia sp. CYKS2. *FEMS Microbiology Letters*, **2000**, 182, 309-12	2.9	61
25	Desulfurization of model and diesel oils by resting cells of Gordona sp.. *Biotechnology Letters*, **2000**, 22, 193-196	3	39
24	Fermentative production of succinic acid from glucose and corn steep liquor byAnaerobiospirillum succiniciproducens. *Biotechnology and Bioprocess Engineering*, **2000**, 5, 379-381	3.1	57
23	Development of a cell-loaded biosupport separator for continuous immobilized-cell perfusion culture. *Biotechnology Progress*, **1999**, 15, 267-72	2.8	

22	Ethanol production using concentrated oak wood hydrolysates and methods to detoxify. *Applied Biochemistry and Biotechnology*, **1999**, 77-79, 547-59	3.2	47
21	Desulfurization of diesel oils by a newly isolated dibenzothiophene-degrading Nocardia sp. strain CYKS2. *Biotechnology Progress*, **1998**, 14, 851-5	2.8	59
20	Correlation of redox potential with state variables in cultures under controlled dissolved oxygen concentration and pH. *Biotechnology Progress*, **1998**, 14, 959-62	2.8	5
19	Comparison and optimization of poly(3-hydroxybutyrate) recovery fromAlcaligenes eutrophus and recombinantEscherichia coli. *Korean Journal of Chemical Engineering*, **1998**, 15, 51-55	2.8	10
18	Efficient transformation ofKlebsiella oxytoca by electroporation. *Biotechnology and Bioprocess Engineering*, **1998**, 3, 48-49	3.1	10
17	Lactic acid recovery using two-stage electrodialysis and its modelling. *Journal of Membrane Science*, **1998**, 145, 53-66	9.6	165
16	Desulfurization of dibenzothiophene and diesel oils by a newly isolated gordona strain, CYKS1. *Applied and Environmental Microbiology*, **1998**, 64, 2327-31	4.8	130
15	Development of sporulation/immobilization method and its application for the continuous production of cyclosporin A by Tolypocladium inflatum. *Biotechnology Progress*, **1997**, 13, 546-50	2.8	9
14	By-product formation in cell-recycled continuous culture of Lactobacillus casei. *Biotechnology Letters*, **1997**, 19, 237-240	3	8
13	Production of poly(3-hydroxybutyrate) by high cell density fed-batch culture of Alcaligenes eutrophus with phospate limitation. *Biotechnology and Bioengineering*, **1997**, 55, 28-32	4.9	129
12	Production of poly(3-hydroxybutyrate) by high cell density fed-batch culture of Alcaligenes eutrophus with phospate limitation **1997**, 55, 28		1
11	Effects of medium components on L-ornithine production byBrevibacterium ketoglutamicum. *Biotechnology and Bioprocess Engineering*, **1996**, 1, 41-45	3.1	3
10	Estimation of specific growth rate from agitation speed in DO-stat culture. *Biotechnology Letters*, **1996**, 10, 303		1
9	On-line measurement and control of cell concentration of Saccharomyces cerevisiae using a laser turbidimeter. *Biotechnology Letters*, **1995**, 9, 557-562		4
8	Development of Environmental Monitoring Sensor Using Quartz Crystal Micro-Balance. *Molecular Crystals and Liquid Crystals*, **1995**, 267, 405-410		3
7	Production of poly(3-hydroxybutyric acid) by fed-batch culture of Alcaligenes eutrophus with glucose concentration control. *Biotechnology and Bioengineering*, **1994**, 43, 892-8	4.9	258
6	Optimization of microbial poly(3-hydroxybutyrate) recover using dispersions of sodium hypochlorite solution and chloroform. *Biotechnology and Bioengineering*, **1994**, 44, 256-61	4.9	164
5	Characteristics and Performance of an Autotuning Proportional Integral Derivative Controller for Dissolved Oxygen Concentration. *Biotechnology Progress*, **1994**, 10, 447-450	2.8	12

4	Adaptive control of dissolved oxygen concentration in a bioreactor. *Biotechnology and Bioengineering*, **1991**, 37, 597-607	4.9	41
3	Dissolved oxygen concentration regulation using auto-tuning proportional-integral-derivative controller in fermentation process. *Biotechnology Letters*, **1991**, 5, 85-90		18
2	Desulfurization of light gas oil in immobilized-cell systems of Gordona sp. CYKS1 and Nocardia sp. CYKS2		6
1	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 inChlorellasp. HS2		1