

Ho Nam Chang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/11326231/ho-nam-chang-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

246
papers

7,931
citations

47
h-index

79
g-index

253
ext. papers

8,387
ext. citations

4.3
avg, IF

5.61
L-index

#	Paper	IF	Citations
246	Simple synthesis of functionalized superparamagnetic magnetite/silica core/shell nanoparticles and their application as magnetically separable high-performance biocatalysts. <i>Small</i> , 2008 , 4, 143-52	11	338
245	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, 892-8	4.9	258
244	Ethanol production from marine algal hydrolysates using <i>Escherichia coli</i> KO11. <i>Bioresource Technology</i> , 2011 , 102, 7466-9	11	241
243	Succinic acid production with reduced by-product formation in the fermentation of <i>Anaerobiospirillum succiniciproducens</i> using glycerol as a carbon source. <i>Biotechnology and Bioengineering</i> , 2001 , 72, 41-48	4.9	228
242	The effect of volatile fatty acids as a sole carbon source on lipid accumulation by <i>Cryptococcus albidus</i> for biodiesel production. <i>Bioresource Technology</i> , 2011 , 102, 2695-701	11	218
241	Anaerobic organic acid production of food waste in once-a-day feeding and drawing-off bioreactor. <i>Bioresource Technology</i> , 2008 , 99, 7866-74	11	186
240	Biomass-derived volatile fatty acid platform for fuels and chemicals. <i>Biotechnology and Bioprocess Engineering</i> , 2010 , 15, 1-10	3.1	180
239	Simple synthesis of hierarchically ordered mesocellular mesoporous silica materials hosting crosslinked enzyme aggregates. <i>Small</i> , 2005 , 1, 744-53	11	179
238	Crosslinked enzyme aggregates in hierarchically-ordered mesoporous silica: a simple and effective method for enzyme stabilization. <i>Biotechnology and Bioengineering</i> , 2007 , 96, 210-8	4.9	173
237	Optimization of microbial poly(3-hydroxybutyrate) recover using dispersions of sodium hypochlorite solution and chloroform. <i>Biotechnology and Bioengineering</i> , 1994 , 44, 256-61	4.9	164
236	Simultaneous saccharification and fermentation of lignocellulosic residues pretreated with phosphoric acid-acetone for bioethanol production. <i>Bioresource Technology</i> , 2009 , 100, 3245-51	11	146
235	Batch and continuous fermentation of succinic acid from wood hydrolysate by <i>Mannheimia succiniciproducens</i> MBEL55E. <i>Enzyme and Microbial Technology</i> , 2004 , 35, 648-653	3.8	140
234	Desulfurization of dibenzothiophene and diesel oils by a newly isolated gordona strain, CYKS1. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 2327-31	4.8	130
233	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	4.9	129
232	Succinic acid production by <i>Anaerobiospirillum succiniciproducens</i> : effects of the H ₂ /CO ₂ supply and glucose concentration. <i>Enzyme and Microbial Technology</i> , 1999 , 24, 549-554	3.8	116
231	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	4.9	107
230	A magnetically separable, highly stable enzyme system based on nanocomposites of enzymes and magnetic nanoparticles shipped in hierarchically ordered, mesocellular, mesoporous silica. <i>Small</i> , 2005 , 1, 1203-7	11	99

229	Enhanced shikonin production from <i>Lithospermum erythrorhizon</i> by in situ extraction and calcium alginate immobilization. <i>Biotechnology and Bioengineering</i> , 1990 , 36, 460-6	4.9	94
228	High cell density cultivation of <i>Escherichia coli</i> W using sucrose as a carbon source. <i>Biotechnology Letters</i> , 1993 , 15, 971-974	3	85
227	Lipid production by microalgae <i>Chlorella protothecoides</i> with volatile fatty acids (VFAs) as carbon sources in heterotrophic cultivation and its economic assessment. <i>Bioprocess and Biosystems Engineering</i> , 2015 , 38, 691-700	3.7	81
226	High cell density fed-batch cultivation of <i>Escherichia coli</i> using exponential feeding combined with pH-stat. <i>Bioprocess and Biosystems Engineering</i> , 2004 , 26, 147-50	3.7	81
225	Immobilization of <i>Mucor javanicus</i> lipase on effectively functionalized silica nanoparticles. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006 , 39, 62-68		78
224	Exploring low-cost carbon sources for microbial lipids production by fed-batch cultivation of <i>Cryptococcus albidus</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2011 , 16, 482-487	3.1	77
223	Poly(3-hydroxybutyrate) synthesis in fed-batch culture of <i>Ralstonia eutropha</i> with phosphate limitation under different glucose concentrations. <i>Biotechnology Letters</i> , 2003 , 25, 1415-9	3	77
222	Production of poly(3-hydroxybutyric-co-3-hydroxyvaleric acid) by fed-batch culture of <i>Alcaligenes eutrophus</i> with substrate control using on-line glucose analyzer. <i>Enzyme and Microbial Technology</i> , 1994 , 16, 556-561	3.8	76
221	Production of poly- γ -glutamic acid by fed-batch culture of <i>Bacillus licheniformis</i> . <i>Biotechnology Letters</i> , 2000 , 22, 585-588	3	74
220	Production of poly(3-hydroxybutyric acid) by recombinant <i>Escherichia coli</i> strains: genetic and fermentation studies. <i>Canadian Journal of Microbiology</i> , 1995 , 41 Suppl 1, 207-15	3.2	74
219	Production of poly- γ -hydroxybutyrate by fed-batch culture of recombinant <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 1992 , 14, 811-816	3	71
218	Kinetics of ethanol fermentations in membrane cell recycle fermentors. <i>Biotechnology and Bioengineering</i> , 1987 , 29, 1105-12	4.9	70
217	Polymerization of aqueous lactic acid to prepare high molecular weight poly(lactic acid) by chain-extending with hexamethylene diisocyanate. <i>Polymer Bulletin</i> , 1995 , 35, 415-421	2.4	68
216	One-dimensional crosslinked enzyme aggregates in SBA-15: Superior catalytic behavior to conventional enzyme immobilization. <i>Microporous and Mesoporous Materials</i> , 2008 , 111, 18-23	5.3	65
215	Estimation of oxygen penetration depth in immobilized cells. <i>Applied Microbiology and Biotechnology</i> , 1988 , 29, 107-112	5.7	63
214	Production of bacterial cellulose by <i>Gluconacetobacter hansenii</i> using a novel bioreactor equipped with a spin filter. <i>Korean Journal of Chemical Engineering</i> , 2007 , 24, 265-271	2.8	62
213	High cell density culture of a recombinant <i>Escherichia coli</i> producing penicillin acylase in a membrane cell recycle fermentor. <i>Biotechnology and Bioengineering</i> , 1990 , 36, 330-7	4.9	62
212	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, 309-12	2.9	61

211	Encapsulation of <i>Lactobacillus casei</i> cells in liquid-core alginate capsules for lactic acid production. <i>Enzyme and Microbial Technology</i> , 1996 , 19, 428-433	3.8	61
210	Desulfurization of diesel oils by a newly isolated dibenzothiophene-degrading <i>Nocardia</i> sp. strain CYKS2. <i>Biotechnology Progress</i> , 1998 , 14, 851-5	2.8	59
209	Effects of medium components on the growth of <i>Anaerobiospirillum succiniciproducens</i> and succinic acid production. <i>Process Biochemistry</i> , 1999 , 35, 49-55	4.8	59
208	High density cell culture by membrane-based cell recycle. <i>Biotechnology Advances</i> , 1994 , 12, 467-87	17.8	59
207	Performance of microbial fuel cell with volatile fatty acids from food wastes. <i>Biotechnology Letters</i> , 2011 , 33, 705-14	3	57
206	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	3.1	57
205	Production and secretion of indole alkaloids in hairy root cultures of <i>Catharanthus roseus</i> : Effects of in situ adsorption, fungal elicitation and permeabilization. <i>Journal of Bioscience and Bioengineering</i> , 1994 , 78, 229-234		56
204	The effect of turbulence promoters on mass transfer—numerical analysis and flow visualization. <i>International Journal of Heat and Mass Transfer</i> , 1982 , 25, 1167-1181	4.9	56
203	Effect of complex nitrogen source on the synthesis and accumulation of poly(3-hydroxybutyric acid) by recombinant <i>Escherichia coli</i> in flask and fed-batch cultures. <i>Journal of Polymers and the Environment</i> , 1994 , 2, 169-176		55
202	Microencapsulation of recombinant <i>Saccharomyces cerevisiae</i> cells with invertase activity in liquid-core alginate capsules. <i>Biotechnology and Bioengineering</i> , 1996 , 51, 157-62	4.9	53
201	Effect of post-induction nutrient feeding strategies on the production of bioadhesive protein in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 1998 , 60, 271-6	4.9	52
200	Flow distribution in the fiber lumen side of a hollow-fiber module. <i>AIChE Journal</i> , 1986 , 32, 1937-1947	3.6	49
199	Ethanol production using concentrated oak wood hydrolysates and methods to detoxify. <i>Applied Biochemistry and Biotechnology</i> , 1999 , 77-79, 547-59	3.2	47
198	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, 876-80	2.8	46
197	Microencapsulation of yeast cells in the calcium alginate membrane. <i>Biotechnology Letters</i> , 1993 , 7, 879-884		46
196	Volatile fatty acids derived from waste organics provide an economical carbon source for microbial lipids/biodiesel production. <i>Biotechnology Journal</i> , 2014 , 9, 1536-46	5.6	45
195	Effect of B vitamin supplementation on lactic acid production by <i>Lactobacillus casei</i> . <i>Journal of Bioscience and Bioengineering</i> , 1997 , 84, 172-175		45
194	Production of poly (3-hydroxybutyrate) from starch by <i>Azotobacter chroococcum</i> . <i>Biotechnology Letters</i> , 1998 , 20, 109-112	3	44

193	Efficient recovery of gamma-poly (glutamic acid) from highly viscous culture broth. <i>Biotechnology and Bioengineering</i> , 2001 , 76, 219-23	4.9	44
192	Reusable biosorbents in capsules from zoogloea ramigera cells for cadmium removal. <i>Biotechnology and Bioengineering</i> , 1999 , 63, 116-21	4.9	44
191	Synthesis of copolyesters containing poly(ethylene terephthalate) and poly(E-caprolactone) units and their susceptibility to Pseudomonas sp. lipase. <i>Journal of Polymers and the Environment</i> , 1994 , 2, 9-18		43
190	Citric acid production by Aspergillus niger immobilized on polyurethane foam. <i>Applied Microbiology and Biotechnology</i> , 1989 , 30, 141	5.7	43
189	Aerobic fungal cell immobilization in a dual hollow-fiber bioreactor: Continuous production of a citric acid. <i>Biotechnology and Bioengineering</i> , 1988 , 32, 205-12	4.9	43
188	Nanoscale enzyme reactors in mesoporous carbon for improved performance and lifetime of biosensors and biofuel cells. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 655-60	11.8	42
187	Sequential feeding of glucose and valerate in a fed-batch culture of Ralstonia eutropha for production of poly(hydroxybutyrate-co-hydroxyvalerate) with high 3-hydroxyvalerate fraction. <i>Biotechnology Progress</i> , 2004 , 20, 140-4	2.8	41
186	Adaptive control of dissolved oxygen concentration in a bioreactor. <i>Biotechnology and Bioengineering</i> , 1991 , 37, 597-607	4.9	41
185	Bioprocessing aspects of fuels and chemicals from biomass. <i>Korean Journal of Chemical Engineering</i> , 2012 , 29, 831-850	2.8	40
184	Enzymatic Synthesis of Various Aromatic Polyesters in Anhydrous Organic Solvents. <i>Biocatalysis</i> , 1994 , 11, 263-271		40
183	Increased shikonin production by hairy roots of Lithospermum erythrorhizon in two phase bubble column reactor. <i>Biotechnology Letters</i> , 1993 , 15, 145-150	3	40
182	Desulfurization of model and diesel oils by resting cells of Gordona sp.. <i>Biotechnology Letters</i> , 2000 , 22, 193-196	3	39
181	Stimulatory effects of amino acids and oleic acid on poly(3-hydroxybutyric acid) synthesis by recombinant Escherichia coli. <i>Journal of Bioscience and Bioengineering</i> , 1995 , 79, 177-180		39
180	Production of microbial lipid by Cryptococcus curvatus on rice straw hydrolysates. <i>Process Biochemistry</i> , 2017 , 56, 147-153	4.8	38
179	Regioselective enzymatic acylation of multi-hydroxyl compounds in organic synthesis. <i>Biotechnology and Bioprocess Engineering</i> , 2003 , 8, 1-8	3.1	38
178	Continuous ethanol production from concentrated wood hydrolysates in an internal membrane-filtration bioreactor. <i>Biotechnology Progress</i> , 2000 , 16, 302-4	2.8	38
177	Reaction kinetics of lactic acid with methanol catalyzed by acid resins. <i>International Journal of Chemical Kinetics</i> , 1996 , 28, 37-41	1.4	38
176	Thermal Properties and Biodegradability Studies of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Journal of Polymers and the Environment</i> , 2012 , 20, 23-28	4.5	37

175	Multi-stage high cell continuous fermentation for high productivity and titer. <i>Bioprocess and Biosystems Engineering</i> , 2011 , 34, 419-31	3.7	37
174	Simulation of sequential batch reactor (SBR) operation for simultaneous removal of nitrogen and phosphorus. <i>Bioprocess and Biosystems Engineering</i> , 2000 , 23, 513-521	3.7	37
173	Cell retention culture with an internal filter module: continuous ethanol fermentation. <i>Biotechnology and Bioengineering</i> , 1993 , 41, 677-81	4.9	37
172	Experimental study of mass transfer around a turbulence promoter by the limiting current method. <i>International Journal of Heat and Mass Transfer</i> , 1983 , 26, 1007-1016	4.9	37
171	Selective extraction of acetic acid from the fermentation broth produced by <i>Mannheimia succiniciproducens</i> . <i>Biotechnology Letters</i> , 2004 , 26, 1581-4	3	36
170	Removal of hydrogen sulfide by <i>Chlorobium thiosulfatophilum</i> in immobilized-cell and sulfur-settling free-cell recycle reactors. <i>Biotechnology Progress</i> , 1991 , 7, 495-500	2.8	35
169	The recovery of poly(3-hydroxybutyrate) by using dispersions of sodium hypochlorite solution and chloroform. <i>Biotechnology Letters</i> , 1993 , 7, 209-212		35
168	Selective extraction of succinic acid from binary mixture of succinic acid and acetic acid. <i>Biotechnology Letters</i> , 2000 , 22, 871-874	3	34
167	Production of poly(beta-hydroxybutyric acid) by recombinant <i>Escherichia coli</i> . <i>Annals of the New York Academy of Sciences</i> , 1994 , 721, 43-53	6.5	33
166	Platelet aggregation by laminar shear and Brownian motion. <i>Annals of Biomedical Engineering</i> , 1976 , 4, 151-83	4.7	33
165	Multi-stage continuous high cell density culture systems: a review. <i>Biotechnology Advances</i> , 2014 , 32, 514-25	17.8	32
164	Kinetic study on succinic acid and acetic acid formation during continuous cultures of <i>Anaerobiospirillum succiniciproducens</i> grown on glycerol. <i>Bioprocess and Biosystems Engineering</i> , 2010 , 33, 465-71	3.7	32
163	Inhibitory effect of carbon dioxide on the fed-batch culture of <i>Ralstonia eutropha</i> : evaluation by CO ₂ pulse injection and autogenous CO ₂ methods. <i>Biotechnology and Bioengineering</i> , 2003 , 83, 312-20	4.9	31
162	Removal of volatile fatty acids (VFA) by microbial fuel cell with aluminum electrode and microbial community identification with 16S rRNA sequence. <i>Korean Journal of Chemical Engineering</i> , 2008 , 25, 535-541	2.8	28
161	Nitrate removal in a packed bed reactor using volatile fatty acids from anaerobic acidogenesis of food wastes. <i>Biotechnology and Bioprocess Engineering</i> , 2006 , 11, 538-543	3.1	28
160	Production of poly(hydroxyalkanoic acid). <i>Advances in Biochemical Engineering/Biotechnology</i> , 1995 , 52, 27-58	1.7	28
159	Growth kinetics of the photosynthetic bacterium <i>Chlorobium thiosulfatophilum</i> in a fed-batch reactor. <i>Biotechnology and Bioengineering</i> , 1992 , 40, 583-92	4.9	28
158	Increased shikonin production in <i>Lithospermum erythrorhizon</i> suspension cultures within situ extraction and fungal cell treatment (elicitor). <i>Biotechnology Letters</i> , 1990 , 12, 443-446	3	28

157	Rifamycin B production by <i>Nocardia mediterranei</i> immobilized in a dual hollow fibre bioreactor. <i>Enzyme and Microbial Technology</i> , 1987 , 9, 345-349	3.8	28
156	Optimization of volatile fatty acids and hydrogen production from <i>Saccharina japonica</i> : acidogenesis and molecular analysis of the resulting microbial communities. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 3327-37	5.7	27
155	Enhanced spore production of <i>Bacillus thuringiensis</i> by fed-batch culture. <i>Biotechnology Letters</i> , 1992 , 14, 721-726	3	27
154	Biotransformation of acrylonitrile to acrylamide using immobilized whole cells of <i>Brevibacterium</i> CH1 in a recycle fed-batch reactor. <i>Biotechnology and Bioengineering</i> , 1989 , 34, 380-6	4.9	27
153	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	3.1	26
152	Variable-volume hollow-fiber enzyme reactor with pulsatile flow. <i>AIChE Journal</i> , 1983 , 29, 910-914	3.6	25
151	Recombinant antibody production by perfusion cultures of rCHO cells in a depth filter perfusion system. <i>Biotechnology Progress</i> , 2005 , 21, 134-9	2.8	23
150	High-density continuous cultures of hybridoma cells in a depth filter perfusion system. <i>Biotechnology and Bioengineering</i> , 1994 , 44, 895-901	4.9	23
149	Extractive ethanol production in a membrane cell recycle bioreactor. <i>Journal of Biotechnology</i> , 1992 , 24, 329-343	3.7	23
148	A flow injection analysis system with encapsulated high-density <i>Saccharomyces cerevisiae</i> cells for rapid determination of biochemical oxygen demand. <i>Applied Microbiology and Biotechnology</i> , 2009 , 83, 217-23	5.7	22
147	Synthesis of poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) by recombinant <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 1996 , 49, 495-503	4.9	22
146	Production of <i>Bacillus thuringiensis</i> spores in total cell retention culture and two-stage continuous culture using an internal ceramic filter system. <i>Biotechnology and Bioengineering</i> , 1993 , 42, 1107-12	4.9	22
145	On-site removal of H ₂ S from biogas produced by food waste using an aerobic sludge biofilter for steam reforming processing. <i>Biotechnology and Bioprocess Engineering</i> , 2010 , 15, 505-511	3.1	21
144	Continuous production of acrylamide by <i>Brevibacterium</i> sp. immobilized in a dual hollow fiber bioreactor. <i>Biotechnology Letters</i> , 1987 , 9, 237-242	3	21
143	Synthesis of poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) by recombinant <i>Escherichia coli</i> 1996 , 49, 495		21
142	Steam reforming of volatile fatty acids (VFAs) over supported Pt/Al ₂ O ₃ catalysts. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 7505-7515	6.7	20
141	Limited use of Centritech Lab II Centrifuge in perfusion culture of rCHO cells for the production of recombinant antibody. <i>Biotechnology Progress</i> , 2008 , 24, 166-74	2.8	20
140	Bioconversion of hydrogen sulfide by free and immobilized cells of <i>Chlorobium thiosulfatophilum</i> . <i>Biotechnology Letters</i> , 1990 , 12, 381-386	3	20

139	Volatile fatty acid production from lignocellulosic biomass by lime pretreatment and its applications to industrial biotechnology. <i>Biotechnology and Bioprocess Engineering</i> , 2013 , 18, 1163-1168	3.1	19
138	Optimization of culture conditions and continuous production of chitosan by the fungi, <i>Absidia coerulea</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2001 , 6, 6-10	3.1	19
137	Control of glucose feeding using exit gas data and its application to the production of PHB from tapioca hydrolysate by <i>Alcaligenes eutrophus</i> . <i>Biotechnology Letters</i> , 1995 , 9, 311-314		19
136	High-density culture of <i>Escherichia coli</i> carrying recombinant plasmid in a membrane cell recycle fermenter. <i>Enzyme and Microbial Technology</i> , 1989 , 11, 49-54	3.8	19
135	Separation of oil contaminants by surfactant-aided foam fractionation. <i>Korean Journal of Chemical Engineering</i> , 1998 , 15, 445-448	2.8	18
134	Long-term operation of depth filter perfusion systems (DFPS) for monoclonal antibody production using recombinant CHO cells: Effect of temperature, pH, and dissolved oxygen. <i>Biotechnology and Bioprocess Engineering</i> , 2008 , 13, 401-409	3.1	18
133	Recovery of ammonium lactate and removal of hardness from fermentation broth by nanofiltration. <i>Biotechnology Progress</i> , 2004 , 20, 764-70	2.8	18
132	Continuous ethanol production from wood hydrolysate by chemostat and total cell retention culture. <i>Korean Journal of Chemical Engineering</i> , 1996 , 13, 453-456	2.8	18
131	Dissolved oxygen concentration regulation using auto-tuning proportional-integral-derivative controller in fermentation process. <i>Biotechnology Letters</i> , 1991 , 5, 85-90		18
130	Membrane bioreactors: Engineering aspects. <i>Biotechnology Advances</i> , 1987 , 5, 129-45	17.8	18
129	Glucose oxidation in a dual hollow fiber bioreactor with a silicone tube oxygenator. <i>Biotechnology and Bioengineering</i> , 1987 , 29, 552-7	4.9	18
128	Bacteriorhodopsin production by cell recycle culture of <i>Halobacterium halobium</i> . <i>Biotechnology Letters</i> , 1998 , 20, 763-765	3	17
127	Production of poly(ϵ -hydroxybutyrate-co- ϵ -hydroxyvalerate) from glucose and valerate in <i>Alcaligenes eutrophus</i> . <i>Biotechnology Letters</i> , 1995 , 17, 571-574	3	17
126	Measurement of KLa by a gassing-in method with oxygen-enriched air. <i>Biotechnology and Bioengineering</i> , 1989 , 34, 1147-57	4.9	17
125	Recycle hollow fiber enzyme reactor with flow swing. <i>Biotechnology and Bioengineering</i> , 1985 , 27, 1185-91		17
124	A comprehensive study on volatile fatty acids production from rice straw coupled with microbial community analysis. <i>Bioprocess and Biosystems Engineering</i> , 2015 , 38, 1157-66	3.7	16
123	Enhancement of volatile fatty acids production from rice straw via anaerobic digestion with chemical pretreatment. <i>Bioprocess and Biosystems Engineering</i> , 2015 , 38, 1623-7	3.7	16
122	High cell density ethanol fermentation in an upflow packed-bed cell recycle bioreactor. <i>Biotechnology and Bioprocess Engineering</i> , 2008 , 13, 123-135	3.1	16

121	Mass transfer in a three-dimensional net-type turbulence promoter. <i>International Journal of Heat and Mass Transfer</i> , 1987 , 30, 1183-1192	4.9	16
120	Effect of external laminar channel flow on mass transfer in a cavity. <i>International Journal of Heat and Mass Transfer</i> , 1987 , 30, 2137-2149	4.9	16
119	Simulation on long-term operation of an anaerobic bioreactor for Korean food wastes. <i>Biotechnology and Bioprocess Engineering</i> , 2003 , 8, 23-31	3.1	14
118	Variable volume enzyme reactor with ultrafiltration swing: A theoretical study on CSTR case. <i>AIChE Journal</i> , 1983 , 29, 645-651	3.6	14
117	Volatile Fatty Acid Platform: Concept and Application 2018 , 173-190		13
116	Fed-batch cultivation of an oxygen-dependent inducible promoter system, the nar promoter in Escherichia coli with an inactivated nar operon. <i>Biotechnology and Bioengineering</i> , 1998 , 59, 400-6	4.9	13
115	Development and characterization of an oxygen-dependent inducible promoter system, the modified nar promoter in a mutant Escherichia coli. <i>Biotechnology and Bioengineering</i> , 2000 , 68, 115-20	4.9	13
114	A cell retention internal filter reactor for ethanol production using tapioca hydrolysates. <i>Biotechnology Letters</i> , 1994 , 8, 817-820		13
113	Enhanced microbial lipid production by <i>Cryptococcus albidus</i> in the high-cell-density continuous cultivation with membrane cell recycling and two-stage nutrient limitation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018 , 45, 1045-1051	4.2	13
112	Enzymatic regioselective synthesis of sucrose acrylate esters. <i>Biotechnology Letters</i> , 2000 , 22, 39-42	3	12
111	Extractive plant cell culture. <i>Current Opinion in Biotechnology</i> , 1995 , 6, 209-212	11.4	12
110	Desulfurization in a plate-type gas-lift photobioreactor using light emitting diodes. <i>Korean Journal of Chemical Engineering</i> , 1996 , 13, 606-611	2.8	12
109	Characteristics and Performance of an Autotuning Proportional Integral Derivative Controller for Dissolved Oxygen Concentration. <i>Biotechnology Progress</i> , 1994 , 10, 447-450	2.8	12
108	Plant cell immobilization in a dual hollow fiber bioreactor. <i>Biotechnology Letters</i> , 1989 , 3, 139-144		12
107	Adaptation of <i>Saccharomyces cerevisiae</i> to solvents used in extractive fermentation. <i>Biotechnology Letters</i> , 1988 , 10, 261-266	3	12
106	Characterization of an oxygen-dependent inducible promoter, the nar promoter of Escherichia coli, to utilize in metabolic engineering. <i>Biotechnology and Bioengineering</i> , 2001 , 72, 573-576	4.9	11
105	Size analysis of poly(3-hydroxybutyric acid) granules produced in recombinant Escherichia coli. <i>Biotechnology Letters</i> , 1995 , 17, 205-210	3	11
104	Computer control of cell mass concentration in continuous culture. <i>Automatica</i> , 1989 , 25, 243-249	5.7	11

103	Enhanced production of human serum albumin by fed-batch culture of <i>Hansenula polymorpha</i> with high-purity oxygen. <i>Journal of Microbiology and Biotechnology</i> , 2010 , 20, 1534-8	3.3	11
102	Improved Production of a Bioadhesive Precursor Protein by Fed-Batch Cultivation of a Recombinant <i>Escherichia coli</i> with a pLysS Vector. <i>Biotechnology Letters</i> , 1998 , 20, 799-803	3	10
101	Modeling of poly(3-hydroxybutyrate) production by high cell density fed-batch culture of <i>Ralstonia eutropha</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2007 , 12, 417-423	3.1	10
100	Shikonin production by extractive cultivation in transformed-suspension and hairy root cultures of <i>Lithospermum erythrorhizon</i> . <i>Annals of the New York Academy of Sciences</i> , 1994 , 745, 442-54	6.5	10
99	High density culture of hybridoma cells in a dual hollow fiber bioreactor. <i>Biotechnology Letters</i> , 1992 , 6, 77-82		10
98	Platelet retention in columns packed with glass beads. <i>Annals of Biomedical Engineering</i> , 1974 , 2, 361-914.7		10
97	Enzyme Immobilization on Nanoparticles: Recent Applications 2018 , 67-80		9
96	Electrochemical Activity Studies of Glucose Oxidase (GOx)-Based and Pyranose Oxidase (POx)-Based Electrodes in Mesoporous Carbon: Toward Biosensor and Biofuel Cell Applications. <i>Electroanalysis</i> , 2014 , 26, 2075-2079	3	9
95	Economic evaluation of off-gas recycle pressure swing adsorption (PSA) in industrial scale poly(3-hydroxybutyrate) fermentation. <i>Biotechnology and Bioprocess Engineering</i> , 2010 , 15, 905-910	3.1	9
94	Extraction of lactic acid with colloidal liquid aphrons and comparison of their toxicities with solvents without surfactant on the viability of <i>Lactobacillus rhamnosus</i> . <i>Biotechnology Letters</i> , 2001 , 23, 983-988	3	9
93	High cell density perfusion cultures of anchorage-dependent Vero cells in a depth filter perfusion system. <i>Cytotechnology</i> , 1995 , 17, 173-83	2.2	9
92	Continuous production of 6-APA in an aqueous two-phase system. <i>Annals of the New York Academy of Sciences</i> , 1992 , 672, 643-8	6.5	9
91	Dual Hollow-Fiber Bioreactor for Aerobic Whole-Cell Immobilization. <i>ACS Symposium Series</i> , 1986 , 32-42 0.4		9
90	Separation of Butanol, Acetone, and Ethanol 2018 , 255-285		8
89	Two-stage depth filter perfusion culture for recombinant antibody production by recombinant Chinese hamster ovary cell. <i>Biotechnology and Bioprocess Engineering</i> , 2008 , 13, 560-565	3.1	8
88	Effect of acetic acid on poly-(3-hydroxybutyrate-CO-3-hydroxyvalerate) synthesis in recombinant <i>Escherichia coli</i> . <i>Korean Journal of Chemical Engineering</i> , 1995 , 12, 264-268	2.8	8
87	Continuous production of tissue plasminogen activator from recombinant CHO cells in a depth filter perfusion system. <i>Biotechnology Letters</i> , 1995 , 9, 567-572		8
86	High cell density continuous culture of <i>Escherichia coli</i> producing penicillin acylase. <i>Biotechnology Letters</i> , 1988 , 10, 787-792	3	8

85	Chemoenzymatic synthesis of sucrose-containing aromatic polymers. <i>Biotechnology and Bioengineering</i> , 2001 , 72, 541-547	4.9	7
84	Enzymatic polytransesterification of aromatic diols in organic solvents. <i>Biotechnology Letters</i> , 1995 , 17, 1085-1090	3	7
83	Dual hollow fiber membrane bioreactor for whole cell enzyme immobilization of <i>Streptomyces griseus</i> with glucose isomerase activity. <i>Journal of Fermentation Technology</i> , 1987 , 65, 575-581		7
82	Numerical calculation of effectiveness factors for the Michaelis-Menten type kinetics with high thiele moduli. <i>AIChE Journal</i> , 1982 , 28, 1030-1032	3.6	7
81	Application of Lactic Acid Bacteria for Food Biotechnology 2018 , 375-398		6
80	Development of anaerobically inducible nar promoter expression vectors for the expression of recombinant proteins in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2011 , 151, 102-7	3.7	6
79	Fermentation characteristics of a low-oxygen inducible hmp promoter system in <i>Bacillus subtilis</i> LAB1886. <i>Journal of Chemical Technology and Biotechnology</i> , 2006 , 81, 1071-1074	3.5	6
78	Operation and modeling of bench-scale SBR for simultaneous removal of nitrogen and phosphorus using real wastewater. <i>Biotechnology and Bioprocess Engineering</i> , 2000 , 5, 441-448	3.1	6
77	Fed-batch hairy root cultures within situ separation. <i>Biotechnology and Bioprocess Engineering</i> , 1999 , 4, 106-111	3.1	6
76	Characteristics of poly(3-hydroxybutyric acid) synthesis by recombinant <i>Escherichia coli</i> . <i>Annals of the New York Academy of Sciences</i> , 1996 , 782, 133-42	6.5	6
75	Membrane bioreactors: present and prospects. <i>Advances in Biochemical Engineering/Biotechnology</i> , 1991 , 44, 27-64	1.7	6
74	Desulfurization of light gas oil in immobilized-cell systems of <i>Gordona</i> sp. CYKS1 and <i>Nocardia</i> sp. CYKS2		6
73	Engineering <i>Trichosporon oleaginosus</i> for enhanced production of lipid from volatile fatty acids as carbon source. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 903-908	2.8	5
72	Biological Pretreatment of Lignocellulosic Biomass for Volatile Fatty Acid Production 2018 , 191-201		5
71	Metabolic Network Modeling for Computer-Aided Design of Microbial Interactions 2018 , 793-801		5
70	Cloning and characterization of <i>Mannheimia succiniciproducens</i> MBEL55E phosphoenolpyruvate carboxykinase (pckA) gene. <i>Biotechnology and Bioprocess Engineering</i> , 2002 , 7, 95-99	3.1	5
69	THE EFFECT OF PORE DIFFUSION ON THE SHAPE OF THE PH AND TEMPERATURE PROFILES OF IMMOBILIZED ENZYMES. <i>Chemical Engineering Communications</i> , 1985 , 34, 15-25	2.2	5
68	Microfiltration of yeast cells in an internal filter reactor. <i>Korean Journal of Chemical Engineering</i> , 1996 , 13, 404-408	2.8	4

67	Hollow fiber bioreactors with internal aeration circuits. <i>Journal of Bioscience and Bioengineering</i> , 1990 , 69, 175-177		4
66	Pressure drop in a packed bed with a liquid of variable viscosity: The case of dextrin hydrolysis by immobilized glucoamylase. <i>Biotechnology and Bioengineering</i> , 1986 , 28, 452-5	4.9	4
65	A theoretical study of a membrane/enzyme reactor with sinusoidal ultrafiltration swing.. <i>Journal of Chemical Engineering of Japan</i> , 1983 , 16, 67-71	0.8	4
64	Succinic acid production with reduced by-product formation in the fermentation of <i>Anaerobiospirillum succiniciproducens</i> using glycerol as a carbon source 2001 , 72, 41		4
63	Software Applications for Phenotype Analysis and Strain Design of Cellular Systems 2018 , 771-791		3
62	Whole Cell Biocatalysts Using Enzymes Displayed on Yeast Cell Surface 2018 , 81-92		3
61	Production of Valuable Phenolic Compounds from Lignin by Biocatalysis: State-of-the-Art Perspective 2018 , 105-123		3
60	Specific Cd ²⁺ uptake of encapsulated <i>Aureobasidium pullulans</i> biosorbents. <i>Biotechnology Letters</i> , 2001 , 23, 1391-1396	3	3
59	Cell separation from high cell density broths of <i>Alcaligenes eutrophus</i> by using a coagulant. <i>Biotechnology Letters</i> , 1996 , 10, 899		3
58	Pressure drop and mass transfer around perforated turbulence promoters placed in a circular tube. <i>International Journal of Heat and Mass Transfer</i> , 1991 , 34, 1909-1916	4.9	3
57	Continuous production of penicillin acylase from recombinant <i>E. coli</i> in a membrane cell recycle fermentor. <i>Annals of the New York Academy of Sciences</i> , 1990 , 613, 839-45	6.5	3
56	Effect of internal diffusion on the apparent stability of nonuniformly distributed biocatalysts. <i>Korean Journal of Chemical Engineering</i> , 1986 , 3, 39-43	2.8	3
55	Effect of inert regions on local mass transfer rate measurements using the limiting diffusion current technique in a base of Poiseuille type flow. <i>International Journal of Heat and Mass Transfer</i> , 1984 , 27, 1922-1925	4.9	3
54	Mass transfer in the U-turn of an electro dialyzer. <i>Desalination</i> , 1980 , 33, 139-161	10.3	3
53	Current Status of Biodegradable Plastics in Korea : Research, Commercial Production and Government Policy. <i>Studies in Polymer Science</i> , 1994 , 12, 286-297		3
52	Mass Production of Full-Length IgG Monoclonal Antibodies from Mammalian, Yeast, and Bacterial Hosts 2018 , 679-695		2
51	Bioelectronic Nose 2018 , 477-496		2
50	Noninvasive Optical Imaging Techniques in Clinical Application 2018 , 497-508		2

49	Genome Editing Tools for Escherichia coli and Their Application in Metabolic Engineering and Synthetic Biology 2018 , 307-319		2
48	Microbial Metabolic Engineering for Production of Food Ingredients 2018 , 359-372		2
47	Enzymatic Reactions in Ionic Liquids 2018 , 35-65		2
46	Biological removal of pyridine in heavy oil by Rhodococcus sp. KCTC 3218. <i>Biotechnology and Bioprocess Engineering</i> , 1999 , 4, 205-209	3.1	2
45	Microencapsulation of recombinant Saccharomyces cerevisiae cells with invertase activity in liquid-core alginate capsules 1996 , 51, 157		2
44	Biosynthesis and Applications of Silver Nanoparticles 2018 , 579-590		1
43	Bacterial Biofertilizers: High Density Cultivation 2018 , 429-439		1
42	DNA Microarray-Based Technologies to Genotype Single Nucleotide Polymorphisms 2018 , 531-556		1
41	Introduction to Emerging Areas in Bioengineering 2018 , 3-20		1
40	Microbial Lipid Production from Volatile Fatty Acids by Oleaginous Yeast 2018 , 203-213		1
39	Gasification Technologies for Lignocellulosic Biomass 2018 , 215-254		1
38	Over-Expression of Functionally Active Inclusion Bodies of Enzymes in Recombinant Escherichia coli 2018 , 21-33		1
37	Biofuels, Bio-Power, and Bio-Products from Sustainable Biomass: Coupling Energy Crops and Organic Waste with Clean Energy Technologies 2018 , 127-161		1
36	Fed-batch cultures of Escherichia coli cells with oxygen-dependent nar promoter systems. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2002 , 74, 171-81	1.7	1
35	Adsorption behavior of albumin and .BETA.-lactamase in alginate-encapsulated deae-trisacryl beads.. <i>Journal of Chemical Engineering of Japan</i> , 1993 , 26, 317-320	0.8	1
34	CSTR type membrane enzyme reactor with pulsatile inflow and constant outflow. <i>Korean Journal of Chemical Engineering</i> , 1984 , 1, 21-25	2.8	1
33	Volatile Fatty Acids from Lipid-Extracted Yeast Provide Additional Feedstock for Microbial Lipid Production. <i>Catalysts</i> , 2021 , 11, 1009	4	1
32	Production of poly(3-hydroxybutyrate) by high cell density fed-batch culture of Alcaligenes eutrophus with phosphate limitation 1997 , 55, 28		1

- 31 Succinic acid production with reduced by-product formation in the fermentation of *Anaerobiospirillum succiniciproducens* using glycerol as a carbon source **2001**, 72, 41 1
- 30 Advanced Short Tandem Repeat Genotyping for Forensic Human Identification **2018**, 509-529 0
- 29 Stable constitution of artificial oil body for the refolding of IGF1. *Biotechnology and Bioprocess Engineering*, **2009**, 14, 161-167 3.1 0
- 28 Chang approximation for the osmotic pressure of dilute to concentrated solutions. *Korean Journal of Chemical Engineering*, **2020**, 37, 583-587 2.8
- 27 Biopolymers Based on Raw Materials from Biomass **2018**, 399-427
- 26 Metabolic Engineering of Solventogenic Clostridia for Butanol Production **2018**, 331-348
- 25 Smart Drug Delivery Devices and Implants **2018**, 593-605
- 24 Advanced Genetic Fusion Techniques for Improving the Pharmacokinetic Properties of Biologics **2018**, 645-654
- 23 Bioengineered Cell-Derived Vesicles as Drug Delivery Carriers **2018**, 631-643
- 22 Advanced Genetic Engineering of Microbial Cells for Biosensing Applications **2018**, 465-476
- 21 Metabolic Engineering of Microorganisms for the Production of Lactate-Containing Polyesters **2018**, 349-357
- 20 Recent Advances in Mass Spectrometry-Based Proteomic Methods for Discovery of Protein Biomarkers for Complex Human Diseases **2018**, 697-712
- 19 Mussel-Mimetic Biomaterials for Tissue Engineering Applications **2018**, 655-677
- 18 Bioprocess Simulation and Scheduling **2018**, 723-760
- 17 Metabolism-Combined Growth Model Construction and Its Application to Optimal Bioreactor Operation **2018**, 761-769
- 16 Bioengineering of Microbial Fuel Cells: From Extracellular Electron Transfer Pathway to Electroactive Biofilm **2018**, 295-303
- 15 Advanced Applications of Nanoscale Measuring System for Biosensors **2018**, 557-578
- 14 Overview of Microalgae-Based Carbon Capture and Utilization **2018**, 287-294

- 13 Synthetic Biology for *Corynebacterium glutamicum*: An Industrial Host for White Biotechnology **2018**, 321-329
- 12 Current Research in Korean Herbal Cosmetics **2018**, 441-462
- 11 Controlled Delivery Systems of Protein and Peptide Therapeutics **2018**, 607-616
- 10 Cell Delivery Systems Using Biomaterials **2018**, 617-630
- 9 Overview on Bioprocess Simulation **2018**, 715-722
- 8 Design of Artificial Supramolecular Protein Assemblies by Enzymatic Bioconjugation for Biocatalytic Reactions **2018**, 93-103
- 7 Potential Lignocellulosic Biomass Resources in ASEAN Countries **2018**, 163-172
- 6 Effect of polymer position in nutrient-salt agar medium on fungal degradation of polycaprolactone. *Korean Journal of Chemical Engineering*, **1995**, 12, 320-324 2.8
- 5 Mass transfer between an eddy of cavity and adjacent flows. *Korean Journal of Chemical Engineering*, **1989**, 6, 212-218 2.8
- 4 Theoretical evaluation of ultrafiltration effect on the clearance of hollow fiber artificial kidney. *Korean Journal of Chemical Engineering*, **1984**, 1, 141-145 2.8
- 3 Estimation of oxygen penetration depth in immobilized cells. *Applied Microbiology and Biotechnology*, **1988**, 29, 107-112 5.7
- 2 Continuous Production of Biomass and Metabolites in High Cell Density Membrane Bioreactor **1992**, 444-446
- 1 Production of Plant Secondary Metabolites by Extractive Cultivation **1994**, 355-369