

Ho Nam Chang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Simple Synthesis of Functionalized Superparamagnetic Magnetite/Silica Core/Shell Nanoparticles and their Application as Magnetically Separable High-Performance Biocatalysts. <i>Small</i> , 2008, 4, 143-152.	10.0	351
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	Ethanol production from marine algal hydrolysates using <i>Escherichia coli</i> KO11. <i>Bioresource Technology</i> , 2011, 102, 7466-7469.	9.6	283
4	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.	3.3	254
5	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, 2695-2701.	9.6	252
6	Anaerobic organic acid production of food waste in once-a-day feeding and drawing-off bioreactor. <i>Bioresource Technology</i> , 2008, 99, 7866-7874.	9.6	243
7	Biomass-derived volatile fatty acid platform for fuels and chemicals. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 1-10.	2.6	199
8	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
9	Crosslinked enzyme aggregates in hierarchically-ordered mesoporous silica: A simple and effective method for enzyme stabilization. <i>Biotechnology and Bioengineering</i> , 2007, 96, 210-218.	3.3	187
10	Simple Synthesis of Hierarchically Ordered Mesocellular Mesoporous Silica Materials Hosting Crosslinked Enzyme Aggregates. <i>Small</i> , 2005, 1, 744-753.	10.0	184
11	Simultaneous saccharification and fermentation of lignocellulosic residues pretreated with phosphoric acid-acetone for bioethanol production. <i>Bioresource Technology</i> , 2009, 100, 3245-3251.	9.6	170
12	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
13	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
14	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.	3.2	158
15	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.	3.2	134
16	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
17	Enhanced shikonin production from <i>Lithospermum erythrorhizon</i> by in situ extraction and calcium alginate immobilization. <i>Biotechnology and Bioengineering</i> , 1990, 36, 460-466.	3.3	108
18	High cell density cultivation of <i>Escherichia coli</i> W using sucrose as a carbon source. <i>Biotechnology Letters</i> , 1993, 15, 971-974.	2.2	107

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19	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, 1203-1207.	10.0	106
20	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.	3.4	100
21	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, 147-150.	3.4	99
22	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, 1415-1419.	2.2	98
23	Production of poly-L-glutamic acid by fed-batch culture of <i>Bacillus licheniformis</i> . <i>Biotechnology Letters</i> , 2000, 22, 585-588.	2.2	93
24	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.	3.2	91
25	Immobilization of <i>Mucor javanicus</i> lipase on effectively functionalized silica nanoparticles. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006, 39, 62-68.	1.8	89
26	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.	2.6	88
27	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, 207-215.	1.7	87
28	Production of poly- γ -hydroxybutyrate by fed-batch culture of recombinant <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 1992, 14, 811-816.	2.2	83
29	Kinetics of ethanol fermentations in membrane cell recycle fermentors. <i>Biotechnology and Bioengineering</i> , 1987, 29, 1105-1112.	3.3	77
30	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.	2.7	77
31	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.	3.3	74
32	Performance of microbial fuel cell with volatile fatty acids from food wastes. <i>Biotechnology Letters</i> , 2011, 33, 705-714.	2.2	71
33	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.	4.8	70
34	Estimation of oxygen penetration depth in immobilized cells. <i>Applied Microbiology and Biotechnology</i> , 1988, 29, 107-112.	3.6	69
35	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, 330-337.	3.3	69
36	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.	3.2	69

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37	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.	4.4	69
38	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.	0.6	68
39	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
40	Effects of medium components on the growth of <i>Anaerobiospirillum succiniciproducens</i> and succinic acid production. <i>Process Biochemistry</i> , 1999, 35, 49-55.	3.7	68
41	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
42	High density cell culture by membrane-based cell recycle. <i>Biotechnology Advances</i> , 1994, 12, 467-487.	11.7	67
43	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
44	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.	0.9	63
45	Effect of post-induction nutrient feeding strategies on the production of bioadhesive protein in <i>Escherichia coli</i> . , 1998, 60, 271-276.		63
46	Ethanol Production Using Concentrated Oak Wood Hydrolysates and Methods to Detoxify. <i>Applied Biochemistry and Biotechnology</i> , 1999, 78, 547-560.	2.9	63
47	Flow distribution in the fiber lumen side of a hollow-fiber module. <i>AIChE Journal</i> , 1986, 32, 1937-1947.	3.6	61
48	Microencapsulation of recombinant <i>Saccharomyces cerevisiae</i> cells with invertase activity in liquid-core alginate capsules. <i>Biotechnology and Bioengineering</i> , 1996, 51, 157-162.	3.3	60
49	Production of poly (3-hydroxybutyrate) from starch by <i>Azotobacter chroococcum</i> . <i>Biotechnology Letters</i> , 1998, 20, 109-112.	2.2	58
50	Citric acid production by <i>Aspergillus niger</i> immobilized on polyurethane foam. <i>Applied Microbiology and Biotechnology</i> , 1989, 30, 141.	3.6	56
51	Thermal Properties and Biodegradability Studies of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Journal of Polymers and the Environment</i> , 2012, 20, 23-28.	5.0	56
52	Reusable biosorbents in capsules from <i>zoogloea ramigera</i> cells for cadmium removal. , 1999, 63, 116-121.		55
53	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.	0.9	54
54	Efficient recovery of γ -poly (glutamic acid) from highly viscous culture broth. <i>Biotechnology and Bioengineering</i> , 2001, 76, 219-223.	3.3	54

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55	Production of poly(hydroxyalkanoic acid). <i>Advances in Biochemical Engineering/Biotechnology</i> , 1995, 52, 27-58.	1.1	52
56	Microencapsulation of yeast cells in the calcium alginate membrane. <i>Biotechnology Letters</i> , 1993, 7, 879-884.	0.5	51
57	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
58	Volatile fatty acids derived from waste organics provide an economical carbon source for microbial lipids/biodiesel production. <i>Biotechnology Journal</i> , 2014, 9, 1536-1546.	3.5	50
59	Production of microbial lipid by <i>Cryptococcus curvatus</i> on rice straw hydrolysates. <i>Process Biochemistry</i> , 2017, 56, 147-153.	3.7	49
60	Aerobic fungal cell immobilization in a dual hollow-fiber bioreactor: Continuous production of a citric acid. <i>Biotechnology and Bioengineering</i> , 1988, 32, 205-212.	3.3	47
61	Increased shikonin production by hairy roots of <i>Lithospermum erythrorhizon</i> in two phase bubble column reactor. <i>Biotechnology Letters</i> , 1993, 15, 145-150.	2.2	47
62	Synthesis of copolyesters containing poly(ethylene terephthalate) and poly(μ -caprolactone) units and their susceptibility to <i>Pseudomonas</i> sp. lipase. <i>Journal of Polymers and the Environment</i> , 1994, 2, 9-18.	0.6	47
63	Multi-stage high cell continuous fermentation for high productivity and titer. <i>Bioprocess and Biosystems Engineering</i> , 2011, 34, 419-431.	3.4	47
64	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.	4.8	45
65	Adaptive control of dissolved oxygen concentration in a bioreactor. <i>Biotechnology and Bioengineering</i> , 1991, 37, 597-607.	3.3	45
66	The recovery of poly(3-hydroxybutyrate) by using dispersions of sodium hypochlorite solution and chloroform. <i>Biotechnology Letters</i> , 1993, 7, 209-212.	0.5	45
67	Stimulatory effects of amino acids and oleic acid on poly(3-hydroxybutyric acid) synthesis by recombinant <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 1995, 79, 177-180.	0.9	45
68	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
69	Nanoscale enzyme reactors in mesoporous carbon for improved performance and lifetime of biosensors and biofuel cells. <i>Biosensors and Bioelectronics</i> , 2010, 26, 655-660.	10.1	45
70	Enzymatic Synthesis of Various Aromatic Polyesters in Anhydrous Organic Solvents. <i>Biocatalysis</i> , 1994, 11, 263-271.	0.9	44
71	Sequential Feeding of Glucose and Valerate in a Fed-Batch Culture of <i>Ralstonia eutropha</i> for Production of Poly(hydroxybutyrate-co-hydroxyvalerate) with High 3-Hydroxyvalerate Fraction. <i>Biotechnology Progress</i> , 2008, 20, 140-144.	2.6	44
72	Continuous Ethanol Production from Concentrated Wood Hydrolysates in an Internal Membrane-Filtration Bioreactor. <i>Biotechnology Progress</i> , 2000, 16, 302-304.	2.6	42

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73	Simulation of sequential batch reactor (SBR) operation for simultaneous removal of nitrogen and phosphorus. <i>Bioprocess and Biosystems Engineering</i> , 2000, 23, 513-521.	3.4	42
74	Regioselective enzymatic acylation of multi-hydroxyl compounds in organic synthesis. <i>Biotechnology and Bioprocess Engineering</i> , 2003, 8, 1-8.	2.6	42
75	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.	2.6	41
76	Cell retention culture with an internal filter module: Continuous ethanol fermentation. <i>Biotechnology and Bioengineering</i> , 1993, 41, 677-681.	3.3	41
77	Bioprocessing aspects of fuels and chemicals from biomass. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 831-850.	2.7	41
78	Reaction kinetics of lactic acid with methanol catalyzed by acid resins. <i>International Journal of Chemical Kinetics</i> , 1996, 28, 37-41.	1.6	40
79	Selective extraction of acetic acid from the fermentation broth produced by <i>Mannheimia succiniciproducens</i> . <i>Biotechnology Letters</i> , 2004, 26, 1581-1584.	2.2	40
80	Growth kinetics of the photosynthetic bacterium <i>Chlorobium thiosulfatophilum</i> in a fed-batch reactor. <i>Biotechnology and Bioengineering</i> , 1992, 40, 583-592.	3.3	39
81	Multi-stage continuous high cell density culture systems: A review. <i>Biotechnology Advances</i> , 2014, 32, 514-525.	11.7	39
82	Platelet aggregation by laminar shear and Brownian motion. <i>Annals of Biomedical Engineering</i> , 1976, 4, 151-183.	2.5	38
83	Production of Poly(γ -Hydroxybutyric Acid) by Recombinant <i>Escherichia coli</i> . <i>Annals of the New York Academy of Sciences</i> , 1994, 721, 43-52.	3.8	38
84	Selective extraction of succinic acid from binary mixture of succinic acid and acetic acid. <i>Biotechnology Letters</i> , 2000, 22, 871-874.	2.2	38
85	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, 312-320.	3.3	37
86	Enhanced spore production of <i>Bacillus thuringiensis</i> by fed-batch culture. <i>Biotechnology Letters</i> , 1992, 14, 721-726.	2.2	36
87	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, 465-471.	3.4	36
88	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.	2.6	35
89	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, 3327-3337.	3.6	35
90	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.	2.2	33

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91	Removal of volatile fatty acids (VFA) by microbial fuel cell with aluminum electrode and microbial community identification with 16S rRNA sequence. Korean Journal of Chemical Engineering, 2008, 25, 535-541.	2.7	30
92	Variable-volume hollow-fiber enzyme reactor with pulsatile flow. AIChE Journal, 1983, 29, 910-914.	3.6	29
93	Rifamycin B production by <i>Nocardia mediterranei</i> immobilized in a dual hollow fibre bioreactor. Enzyme and Microbial Technology, 1987, 9, 345-349.	3.2	29
94	Biotransformation of acrylonitrile to acrylamide using immobilized whole cells of <i>Brevibacterium</i> CH1 in a recycle fed-batch reactor. Biotechnology and Bioengineering, 1989, 34, 380-386.	3.3	28
95	Extractive ethanol production in a membrane cell recycle bioreactor. Journal of Biotechnology, 1992, 24, 329-343.	3.8	27
96	High-density continuous cultures of hybridoma cells in a depth filter perfusion system. Biotechnology and Bioengineering, 1994, 44, 895-901.	3.3	27
97	Pilot scale production of poly(3-hydroxybutyrate-co-3-hydroxy-valerate) by fed-batch culture of recombinant <i>Escherichia coli</i> . Biotechnology and Bioprocess Engineering, 2002, 7, 371-374.	2.6	27
98	Measurement of k_La by a gassing-in method with oxygen-enriched air. Biotechnology and Bioengineering, 1989, 34, 1147-1157.	3.3	26
99	Production of <i>Bacillus thuringiensis</i> spores in total cell retention culture and two-stage continuous culture using an internal ceramic filter system. Biotechnology and Bioengineering, 1993, 42, 1107-1112.	3.3	26
100	Synthesis of poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) by recombinant <i>Escherichia coli</i> . , 2000, 49, 495-503.		26
101	A flow injection analysis system with encapsulated high-density <i>Saccharomyces cerevisiae</i> cells for rapid determination of biochemical oxygen demand. Applied Microbiology and Biotechnology, 2009, 83, 217-223.	3.6	26
102	Control of glucose feeding using exit gas data and its application to the production of PHB from tapioca hydrolysate by <i>Alcaligenes eutrophus</i> . Biotechnology Letters, 1995, 9, 311-314.	0.5	25
103	Continuous production of acrylamide by <i>Brevibacterium</i> sp. immobilized in a dual hollow fiber bioreactor. Biotechnology Letters, 1987, 9, 237-242.	2.2	24
104	Recombinant Antibody Production by Perfusion Cultures of rCHO Cells in a Depth Filter Perfusion System. Biotechnology Progress, 2008, 21, 134-139.	2.6	24
105	Membrane bioreactors: Engineering aspects. Biotechnology Advances, 1987, 5, 129-145.	11.7	23
106	High-density culture of <i>Escherichia coli</i> carrying recombinant plasmid in a membrane cell recycle fermenter. Enzyme and Microbial Technology, 1989, 11, 49-54.	3.2	23
107	Dissolved oxygen concentration regulation using auto-tuning proportional-integral-derivative controller in fermentation process. Biotechnology Letters, 1991, 5, 85-90.	0.5	23
108	Optimization of culture conditions and continuous production of chitosan by the fungi, <i>Absidia coerulea</i> . Biotechnology and Bioprocess Engineering, 2001, 6, 6-10.	2.6	23

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109	Steam reforming of volatile fatty acids (VFAs) over supported Pt/Al ₂ O ₃ catalysts. International Journal of Hydrogen Energy, 2011, 36, 7505-7515.	7.1	23
110	Bioconversion of hydrogen sulfide by free and immobilized cells of <i>Chlorobium thiosulfatophilum</i> . Biotechnology Letters, 1990, 12, 381-386.	2.2	22
111	On-site removal of H ₂ S from biogas produced by food waste using an aerobic sludge biofilter for steam reforming processing. Biotechnology and Bioprocess Engineering, 2010, 15, 505-511.	2.6	22
112	Volatile fatty acid production from lignocellulosic biomass by lime pretreatment and its applications to industrial biotechnology. Biotechnology and Bioprocess Engineering, 2013, 18, 1163-1168.	2.6	22
113	A comprehensive study on volatile fatty acids production from rice straw coupled with microbial community analysis. Bioprocess and Biosystems Engineering, 2015, 38, 1157-1166.	3.4	22
114	Long-term operation of depth filter perfusion systems (DFPS) for monoclonal antibody production using recombinant CHO cells: Effect of temperature, pH, and dissolved oxygen. Biotechnology and Bioprocess Engineering, 2008, 13, 401-409.	2.6	21
115	Limited Use of Centritech Lab II Centrifuge in Perfusion Culture of rCHO Cells for the Production of Recombinant Antibody. Biotechnology Progress, 2008, 24, 166-174.	2.6	21
116	Synthesis of poly(ϵ -3-hydroxybutyrate-co- ϵ -3-hydroxyvalerate) by recombinant <i>Escherichia coli</i> . Biotechnology and Bioengineering, 1996, 49, 495-503.	3.3	21
117	Desulfurization in a plate-type gas-lift photobioreactor using light emitting diodes. Korean Journal of Chemical Engineering, 1996, 13, 606-611.	2.7	20
118	Bacteriorhodopsin production by cell recycle culture of <i>Halobacterium halobium</i> . Biotechnology Letters, 1998, 20, 763-765.	2.2	20
119	Recycle hollow fiber enzyme reactor with flow swing. Biotechnology and Bioengineering, 1985, 27, 1185-1191.	3.3	19
120	Recovery of Ammonium Lactate and Removal of Hardness from Fermentation Broth by Nanofiltration. Biotechnology Progress, 2004, 20, 764-770.	2.6	19
121	High cell density ethanol fermentation in an upflow packed-bed cell recycle bioreactor. Biotechnology and Bioprocess Engineering, 2008, 13, 123-135.	2.6	19
122	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. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 1045-1051.	3.0	19
123	Mass transfer in a three-dimensional net-type turbulence promoter. International Journal of Heat and Mass Transfer, 1987, 30, 1183-1192.	4.8	18
124	Glucose oxidation in a dual hollow fiber bioreactor with a silicone tube oxygenator. Biotechnology and Bioengineering, 1987, 29, 552-557.	3.3	18
125	Membrane bioreactors: Present and prospects. Advances in Biochemical Engineering/Biotechnology, 1991, 44, 27-64.	1.1	18
126	Continuous ethanol production from wood hydrolysate by chemostat and total cell retention culture. Korean Journal of Chemical Engineering, 1996, 13, 453-456.	2.7	18

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127	Separation of oil contaminants by surfactant-aided foam fractionation. Korean Journal of Chemical Engineering, 1998, 15, 445-448.	2.7	18
128	Enhancement of volatile fatty acids production from rice straw via anaerobic digestion with chemical pretreatment. Bioprocess and Biosystems Engineering, 2015, 38, 1623-1627.	3.4	18
129	Effect of external laminar channel flow on mass transfer in a cavity. International Journal of Heat and Mass Transfer, 1987, 30, 2137-2149.	4.8	17
130	A cell retention internal filter reactor for ethanol production using tapioca hydrolysates. Biotechnology Letters, 1994, 8, 817-820.	0.5	17
131	Production of poly(γ -hydroxybutyrate-co- γ -hydroxyvalerate) from glucose and valerate in <i>Alcaligenes eutrophus</i> . Biotechnology Letters, 1995, 17, 571-574.	2.2	17
132	Fed-batch cultivation of an oxygen-dependent inducible promoter system, the <i>nar</i> promoter in <i>Escherichia coli</i> with an inactivated <i>nar</i> operon. , 1998, 59, 400-406.		17
133	Variable volume enzyme reactor with ultrafiltration swing: A theoretical study on CSTR case. AIChE Journal, 1983, 29, 645-651.	3.6	15
134	Extractive plant cell culture. Current Opinion in Biotechnology, 1995, 6, 209-212.	6.6	15
135	Improved Production of a Bioadhesive Precursor Protein by Fed-Batch Cultivation of a Recombinant <i>Escherichia coli</i> with a pLysS Vector. Biotechnology Letters, 1998, 20, 799-803.	2.2	15
136	Simulation on long-term operation of an anaerobic bioreactor for Korean food wastes. Biotechnology and Bioprocess Engineering, 2003, 8, 23-31.	2.6	15
137	Characteristics and performance of an autotuning proportional integral derivative controller for dissolved oxygen concentration. Biotechnology Progress, 1994, 10, 447-450.	2.6	14
138	Size analysis of poly(3-hydroxybutyric acid) granules produced in recombinant <i>Escherichia coli</i> . Biotechnology Letters, 1995, 17, 205-210.	2.2	14
139	Development and characterization of an oxygen-dependent inducible promoter system, the modified <i>nar</i> promoter in a mutant <i>Escherichia coli</i> . , 2000, 68, 115-120.		14
140	Enzymatic regioselective synthesis of sucrose acrylate esters. Biotechnology Letters, 2000, 22, 39-42.	2.2	14
141	Modeling of poly(3-hydroxybutyrate) production by high cell density fed-batch culture of <i>Ralstonia eutropha</i> . Biotechnology and Bioprocess Engineering, 2007, 12, 417-423.	2.6	14
142	Numerical calculation of effectiveness factors for the Michaelis-Menten type kinetics with high Thiele moduli. AIChE Journal, 1982, 28, 1030-1032.	3.6	13
143	Adaptation of <i>Saccharomyces cerevisiae</i> to solvents used in extractive fermentation. Biotechnology Letters, 1988, 10, 261-266.	2.2	13
144	Plant cell immobilization in a dual hollow fiber bioreactor. Biotechnology Letters, 1989, 3, 139-144.	0.5	13

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145	Characterization of an oxygen-dependent inducible promoter, thenar promoter of <i>Escherichia coli</i> , to utilize in metabolic engineering. <i>Biotechnology and Bioengineering</i> , 2001, 72, 573-576.	3.3	12
146	Shikonin Production by Extractive Cultivation in Transformed <i>Escherichia coli</i> Suspension and Hairy Root Cultures of <i>Lithospermum erythrorhizon</i> . <i>Annals of the New York Academy of Sciences</i> , 1994, 745, 442-454.	3.8	12
147	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, 1534-1538.	2.1	12
148	Platelet retention in columns packed with glass beads. <i>Annals of Biomedical Engineering</i> , 1974, 2, 361-391.	2.5	11
149	Dual Hollow-Fiber Bioreactor for Aerobic Whole-Cell Immobilization. <i>ACS Symposium Series</i> , 1986, , 32-42.	0.5	11
150	Computer control of cell mass concentration in continuous culture. <i>Automatica</i> , 1989, 25, 243-249.	5.0	11
151	High cell density continuous culture of <i>Escherichia coli</i> producing penicillin acylase. <i>Biotechnology Letters</i> , 1988, 10, 787-792.	2.2	10
152	High density culture of hybridoma cells in a dual hollow fiber bioreactor. <i>Biotechnology Letters</i> , 1992, 6, 77-82.	0.5	10
153	Title is missing!. <i>Biotechnology Letters</i> , 2001, 23, 983-988.	2.2	10
154	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.	2.6	10
155	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.	2.9	10
156	Estimation of oxygen penetration depth in immobilized cells. <i>Applied Microbiology and Biotechnology</i> , 1988, 29, 107-112.	3.6	10
157	Continuous Production of 6-APA in an Aqueous Two-Phase System. <i>Annals of the New York Academy of Sciences</i> , 1992, 672, 643-648.	3.8	9
158	Enzymatic polytransesterification of aromatic diols in organic solvents. <i>Biotechnology Letters</i> , 1995, 17, 1085-1090.	2.2	9
159	Continuous production of tissue plasminogen activator from recombinant CHO cells in a depth filter perfusion system. <i>Biotechnology Letters</i> , 1995, 9, 567-572.	0.5	9
160	High cell density perfusion cultures of anchorage-dependent Vero cells in a depth filter perfusion system. <i>Cytotechnology</i> , 1995, 17, 173-183.	1.6	9
161	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.	2.6	9
162	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.	2.7	9

#	ARTICLE	IF	CITATIONS
163	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.	2.7	8
164	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, 133-142.	3.8	8
165	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.	2.6	8
166	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.	0.5	7
167	Chemoenzymatic synthesis of sucrose-containing aromatic polymers. <i>Biotechnology and Bioengineering</i> , 2001, 72, 541-547.	3.3	7
168	Development of anaerobically inducible <i>nar</i> promoter expression vectors for the expression of recombinant proteins in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2011, 151, 102-107.	3.8	7
169	Mass transfer in the U-turn of an electrodialyzer. <i>Desalination</i> , 1980, 33, 139-161.	8.2	6
170	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.	2.6	6
171	Fed-batch hairy root cultures within situ separation. <i>Biotechnology and Bioprocess Engineering</i> , 1999, 4, 106-111.	2.6	6
172	Fermentation characteristics of a low-oxygen inducible <i>hmp</i> promoter system in <i>Bacillus subtilis</i> LAB1886. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 1071-1074.	3.2	6
173	Volatile Fatty Acids from Lipid-Extracted Yeast Provide Additional Feedstock for Microbial Lipid Production. <i>Catalysts</i> , 2021, 11, 1009.	3.5	6
174	Desulfurization of light gas oil in immobilized-cell systems of <i>Gordona sp.</i> CYKS1 and <i>Nocardia sp.</i> CYKS2. <i>FEMS Microbiology Letters</i> , 2000, 182, 309-312.	1.8	6
175	Effect of internal diffusion on the apparent stability of nonuniformly distributed biocatalysts. <i>Korean Journal of Chemical Engineering</i> , 1986, 3, 39-43.	2.7	5
176	Hollow fiber bioreactors with internal aeration circuits. <i>Journal of Bioscience and Bioengineering</i> , 1990, 69, 175-177.	0.9	5
177	Microfiltration of yeast cells in an internal filter reactor. <i>Korean Journal of Chemical Engineering</i> , 1996, 13, 404-408.	2.7	5
178	Cell separation from high cell density broths of <i>Alcaligenes eutrophus</i> by using a coagulant. <i>Biotechnology Letters</i> , 1996, 10, 899.	0.5	5
179	Specific Cd ²⁺ uptake of encapsulated <i>Aureobasidium pullulans</i> biosorbents. <i>Biotechnology Letters</i> , 2001, 23, 1391-1396.	2.2	5
180	Cloning and characterization of <i>Mannheimia succiniciproducens</i> MBEL55E phosphoenolpyruvate carboxykinase (<i>pckA</i>) gene. <i>Biotechnology and Bioprocess Engineering</i> , 2002, 7, 95-99.	2.6	5

#	ARTICLE	IF	CITATIONS
181	A theoretical study of a membrane/enzyme reactor with sinusoidal ultrafiltration swing.. Journal of Chemical Engineering of Japan, 1983, 16, 67-71.	0.6	4
182	Pressure drop in a packed bed with a liquid of variable viscosity: The case of dextrin hydrolysis by immobilized glucoamylase. Biotechnology and Bioengineering, 1986, 28, 452-455.	3.3	4
183	Succinic acid production with reduced by-product formation in the fermentation of Anaerobiospirillum succiniciproducens using glycerol as a carbon source. Biotechnology and Bioengineering, 2001, 72, 41-48.	3.3	4
184	Effect of inert regions on local mass transfer rate measurements using the limiting diffusion current technique—case of Poiseuille type flow. International Journal of Heat and Mass Transfer, 1984, 27, 1922-1925.	4.8	3
185	Continuous Production of Penicillin Acylase from Recombinant E. coli in a Membrane Cell Recycle Fermentor. Annals of the New York Academy of Sciences, 1990, 613, 839-845.	3.8	3
186	Pressure drop and mass transfer around perforated turbulence promoters placed in a circular tube. International Journal of Heat and Mass Transfer, 1991, 34, 1909-1916.	4.8	3
187	Current Status of Biodegradable Plastics in Korea : Research, Commercial Production and Government Policy. Studies in Polymer Science, 1994, 12, 286-297.	0.2	3
188	Adsorption behavior of albumin and .BETA.-lactamase in alginate-encapsulated deae-trisacryl beads.. Journal of Chemical Engineering of Japan, 1993, 26, 317-320.	0.6	2
189	Biological removal of pyridine in heavy oil byRhodococcus sp. KCTC 3218. Biotechnology and Bioprocess Engineering, 1999, 4, 205-209.	2.6	2
190	Stable constitution of artificial oil body for the refolding of IGF1. Biotechnology and Bioprocess Engineering, 2009, 14, 161-167.	2.6	2
191	Microencapsulation of recombinant Saccharomyces cerevisiae cells with invertase activity in liquid-core alginate capsules. , 1996, 51, 157.		2
192	CSTR type membrane—enzyme reactor with pulsatile inflow and constant outflow. Korean Journal of Chemical Engineering, 1984, 1, 21-25.	2.7	1
193	Effect of polymer position in nutrient-salt agar medium on fungal degradation of polycaprolactone. Korean Journal of Chemical Engineering, 1995, 12, 320-324.	2.7	1
194	Fed-Batch Cultures of Escherichia coli Cells with Oxygen-Dependent nar Promoter Systems. Advances in Biochemical Engineering/Biotechnology, 2002, 74, 171-181.	1.1	1
195	Production of poly(3-hydroxybutyrate) by high cell density fed-batch culture of Alcaligenes eutrophus with phosphate limitation. Biotechnology and Bioengineering, 1997, 55, 28-32.	3.3	1
196	Succinic acid production with reduced by-product formation in the fermentation of Anaerobiospirillum succiniciproducens using glycerol as a carbon source. , 2001, 72, 41.		1
197	Theoretical evaluation of ultrafiltration effect on the clearance of hollow fiber artificial kidney. Korean Journal of Chemical Engineering, 1984, 1, 141-145.	2.7	0
198	Mass transfer between an eddy of cavity and adjacent flows. Korean Journal of Chemical Engineering, 1989, 6, 212-218.	2.7	0

#	ARTICLE	IF	CITATIONS
199	Chang approximation for the osmotic pressure of dilute to concentrated solutions. Korean Journal of Chemical Engineering, 2020, 37, 583-587.	2.7	0
200	PROTEIN PARTITIONING IN POLYETHYLENGLYCOL/POTASSIUM PHOSPHORIC ACID AQUEOUS TWO-PHASE SYSTEMS FOR PURIFICATION OF MEMBRANE PROTEIN. , 2004, , .		0
201	Continuous Production of Biomass and Metabolites in High Cell Density Membrane Bioreactor. , 1992, , 444-446.		0
202	Production of Plant Secondary Metabolites by Extractive Cultivation. , 1994, , 355-369.		0