Sun-Mee Lee

List of Publications by Year
in descending order

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199 papers	6,804 citations	76326 40 h-index	76900 74 g-index
204 all docs	204 docs citations	204 times ranked	8173 citing authors

#	Article	IF	Citations
1	Economic evaluation for four different solid sorbent processes with heat integration for energy-efficient CO2 capture based on PEI-silica sorbent. Energy, 2022, 238, 121864.	8.8	16
2	Thermodynamic and kinetic modeling of a novel polyamine-based solvent for energy-efficient CO2 capture with energy analysis. Energy, 2022, 239, 122347.	8.8	5
3	Indirect methyl acetate production process based on dimethyl ether using seed-derived ferrierite from shale gas. Fuel, 2022, 310, 122408.	6.4	5
4	Pseudo counter-current turbulent fluidized bed process with sensible heat recovery for energy-efficient CO2 capture using an amine-functionalized solid sorbent. Energy, 2022, 240, 122803.	8.8	7
5	Kinetic modeling of Polyamine-based Water-Lean solvents for CO2 capture: Reverse temperature dependence of the overall mass transfer coefficient. Chemical Engineering Science, 2022, 249, 117355.	3.8	4
6	Enhanced production of ectoine from methane using metabolically engineered Methylomicrobium alcaliphilum 20Z. , 2022, 15, 5.		14
7	System-Level Analysis of Methanol Production from Shale Gas Integrated with Multibed-BTX Production. ACS Sustainable Chemistry and Engineering, 2022, 10, 5998-6011.	6.7	10
8	Supply of proton enhances CO electrosynthesis for acetate and volatile fatty acid productions. Bioresource Technology, 2021, 320, 124245.	9.6	12
9	Synthetic Formatotrophs for Oneâ€Carbon Biorefinery. Advanced Science, 2021, 8, 2100199.	11.2	17
10	Simultaneous production of 1,6-hexanediol, furfural, and high-purity lignin from white birch: Process integration and techno-economic evaluation. Bioresource Technology, 2021, 331, 125009.	9.6	19
11	Chemoenzymatic Cascade Conversion of Linoleic Acid into a Secondary Fatty Alcohol Using a Combination of 13S-Lipoxygenase, Chemical Reduction, and a Photo-Activated Decarboxylase. ACS Sustainable Chemistry and Engineering, 2021, 9, 10837-10845.	6.7	12
12	Bacterial Outer Membrane Vesicles as Nanoâ€Scale Bioreactors: A Fatty Acid Conversion Case Study. ChemCatChem, 2021, 13, 4080-4086.	3.7	9
13	Integrated strategy for coproducing bioethanol and adipic acid from lignocellulosic biomass. Journal of Cleaner Production, 2021, 311, 127849.	9.3	16
14	OsGRAS19 and OsGRAS32 Control Tiller Development in Rice. Plant Breeding and Biotechnology, 2021, 9, 239-249.	0.9	0
15	Design of a water wash column in the CO2 capture process using a polyamine-based water-lean solvent. Journal of Natural Gas Science and Engineering, 2021, 95, 104204.	4.4	5
16	A novel hyperthermophilic methylglyoxal synthase: molecular dynamic analysis on the regional fluctuations. Scientific Reports, 2021, 11, 2538.	3.3	3
17	Engineering Pseudomonas putida KT2440 to convert 2,3-butanediol to mevalonate. Enzyme and Microbial Technology, 2020, 132, 109437.	3.2	7
18	Small Current but Highly Productive Synthesis of 1,3â€Propanediol from Glycerol by an Electrodeâ€Driven Metabolic Shift in Klebsiella pneumoniae L17. ChemSusChem, 2020, 13, 564-573.	6.8	26

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19	Stimulation of cell growth by addition of tungsten in batch culture of a methanotrophic bacterium, Methylomicrobium alcaliphilum 20Z on methane and methanol. Journal of Biotechnology, 2020, 309, 81-84.	3.8	7
20	Sustainable Production of Bioplastics from Lignocellulosic Biomass: Technoeconomic Analysis and Life-Cycle Assessment. ACS Sustainable Chemistry and Engineering, 2020, 8, 12419-12429.	6.7	64
21	Sonochemical synthesis of rho-ZMOF catalyst for an enhanced CO2 cycloaddition reaction. Materials Letters, 2020, 277, 128387.	2.6	7
22	OsASN1 Overexpression in Rice Increases Grain Protein Content and Yield under Nitrogen-Limiting Conditions. Plant and Cell Physiology, 2020, 61, 1309-1320.	3.1	39
23	Natural variations at the Stay-Green gene promoter control lifespan and yield in rice cultivars. Nature Communications, 2020, 11, 2819.	12.8	62
24	Hydrogen Production from Methane by Methylomonas sp. DH-1 under Micro-aerobic Conditions. Biotechnology and Bioprocess Engineering, 2020, 25, 71-77.	2.6	12
25	Metabolic engineering of type II methanotroph, Methylosinus trichosporium OB3b, for production of 3-hydroxypropionic acid from methane via a malonyl-CoA reductase-dependent pathway. Metabolic Engineering, 2020, 59, 142-150.	7.0	35
26	Ethanol conversion into 1,3-butadiene over Zn Zr mixed oxide catalysts supported on ordered mesoporous materials. Fuel Processing Technology, 2020, 200, 106317.	7.2	12
27	Adjusting Hydrocarbon Distribution on the Stabilized Alâ€Modified Mesoporous Co₃O₄â€Fe₂O₃ Bimetal Oxides for CO Hydrogenation. ChemCatChem, 2020, 12, 2304-2314.	3.7	5
28	Metal-free cathodic catalyst with nitrogen- and phosphorus-doped ordered mesoporous carbon (NPOMC) for microbial fuel cells. Journal of Power Sources, 2020, 451, 227816.	7.8	39
29	OsbHLH073 Negatively Regulates Internode Elongation and Plant Height by Modulating GA Homeostasis in Rice. Plants, 2020, 9, 547.	3.5	12
30	Zeolite-Like Metal Organic Framework (ZMOF) with a rho Topology for a CO₂ Cycloaddition to Epoxides. ACS Sustainable Chemistry and Engineering, 2020, 8, 7078-7086.	6.7	32
31	Mevalonate production from ethanol by direct conversion through acetyl-CoA using recombinant Pseudomonas putida, a novel biocatalyst for terpenoid production. Microbial Cell Factories, 2019, 18, 168.	4.0	22
32	Structure-based Mutational Studies of D-3-hydroxybutyrate Dehydrogenase for Substrate Recognition of Aliphatic Hydroxy Acids with a Variable Length of Carbon Chain. Biotechnology and Bioprocess Engineering, 2019, 24, 605-612.	2.6	5
33	Active Surface Hydrophobicity Switching and Dynamic Interfacial Trapping of Microbial Cells by Metal Nanoparticles for Preconcentration and In-Plane Optical Detection. Nano Letters, 2019, 19, 7449-7456.	9.1	9
34	Enhanced Incorporation of Gaseous CO2 to Succinate by a Recombinant Escherichia coli W3110. Biotechnology and Bioprocess Engineering, 2019, 24, 103-108.	2.6	7
35	Recent Advances in the Metabolic Engineering of Klebsiella pneumoniae: A Potential Platform Microorganism for Biorefineries. Biotechnology and Bioprocess Engineering, 2019, 24, 48-64.	2.6	34
36	Impaired Plastid Ribosomal Protein L3 Causes Albino Seedling Lethal Phenotype in Rice. Journal of Plant Biology, 2019, 62, 419-428.	2.1	3

#	Article	IF	Citations
37	Mutation of Plastid Ribosomal Protein L13 Results in an Albino Seedling-Lethal Phenotype in Rice. Plant Breeding and Biotechnology, 2019, 7, 395-404.	0.9	6
38	Microbial synthesis of undec-9-enoic acid, heptyl ester from renewable fatty acids using recombinant Corynebacterium glutamicum-based whole-cell biocatalyst. Process Biochemistry, 2018, 66, 61-69.	3.7	5
39	Microbial production of uracil by an isolated Methylobacterium sp. WJ4 using methanol. Enzyme and Microbial Technology, 2018, 111, 63-66.	3.2	2
40	Mass Transfer Performance of a String Film Reactor: A Bioreactor Design for Aerobic Methane Bioconversion. Catalysts, 2018, 8, 490.	3.5	11
41	GCâ€“MS Method for the Quantitative Analysis of Limonene from Genetically Engineered <scp>Saccharomyces cerevisiae</scp>. Bulletin of the Korean Chemical Society, 2018, 39, 1368-1372.	1.9	2
42	Intracellular transformation rates of fatty acids are influenced by expression of the fatty acid transporter FadL in Escherichia coli cell membrane. Journal of Biotechnology, 2018, 281, 161-167.	3.8	28
43	Comparison of metabolite profiling of Ralstonia eutropha H16 phaBCA mutants grown on different carbon sources. Korean Journal of Chemical Engineering, 2017, 34, 797-805.	2.7	5
44	High production of 2,3-butanediol from glycerol without 1,3-propanediol formation by Raoultella ornithinolytica B6. Applied Microbiology and Biotechnology, 2017, 101, 2821-2830.	3.6	26
45	Efficient simultaneous production of biodiesel and glycerol carbonate via statistical optimization. Journal of Industrial and Engineering Chemistry, 2017, 51, 49-53.	5.8	20
46	Cationic surfactant as methaneâ€“water mass transfer enhancer for the fermentation of Methylosinus trichosporium OB3b. Journal of Industrial and Engineering Chemistry, 2017, 53, 228-232.	5.8	3
47	Expression and characterization of a codon-optimized alkaline-stable carbonic anhydrase from Aliivibrio salmonicida for CO2 sequestration applications. Bioprocess and Biosystems Engineering, 2017, 40, 413-421.	3.4	8
48	Bioprocess engineering to produce 9-(nonanoyloxy) nonanoic acid by a recombinant Corynebacterium glutamicum-based biocatalyst. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 1301-1311.	3.0	2
49	Increased incorporation of gaseous CO 2 into succinate by Escherichia coli overexpressing carbonic anhydrase and phosphoenolpyruvate carboxylase genes. Journal of Biotechnology, 2017, 241, 101-107.	3.8	12
50	Enhanced mass transfer rate and solubility of methane via addition of alcohols for Methylosinus trichosporium OB3b fermentation. Journal of Industrial and Engineering Chemistry, 2017, 46, 350-355.	5.8	9
51	Effective suppression of deactivation by utilizing Ni-doped ordered mesoporous alumina-supported catalysts for the production of hydrogen and CO gas mixture from methane. International Journal of Hydrogen Energy, 2017, 42, 24744-24756.	7.1	9
52	Molecular bases for differential aging programs between flag and second leaves during grain-filling in rice. Scientific Reports, 2017, 7, 8792.	3.3	21
53	Engineering Escherichia coli BL21 genome to improve the heptanoic acid tolerance by using CRISPR-Cas9 system. Biotechnology and Bioprocess Engineering, 2017, 22, 231-238.	2.6	16
54	13C metabolite profiling to compare the central metabolic flux in two yeast strains. Biotechnology and Bioprocess Engineering, 2016, 21, 814-822.	2.6	4

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55	Production of uracil from methane by a newly isolated Methylomonas sp. SW1. Journal of Biotechnology, 2016, 240, 43-47.	3.8	2
56	Improved fermentation of lignocellulosic hydrolysates to 2,3-butanediol through investigation of effects of inhibitory compounds by Enterobacter aerogenes. Chemical Engineering Journal, 2016, 306, 916-924.	12.7	24
57	Hydrogen Production by Steam Reforming of Liquefied Natural Gas (LNG) Over Nickel-Phosphorus-Alumina Xerogel Catalyst Prepared by a Carbon-Templating Epoxide-Driven Solâ€“Gel Method. Journal of Nanoscience and Nanotechnology, 2016, 16, 4605-4611.	0.9	2
58	Eco-design and evaluation for production of 7-aminocephalosporanic acid from carbohydrate wastes discharged after microalgae-based biodiesel production. Journal of Cleaner Production, 2016, 133, 511-517.	9.3	12
59	Enhanced mass transfer rate of methane in aqueous phase via methyl-functionalized SBA-15. Journal of Molecular Liquids, 2016, 215, 154-160.	4.9	17
60	Deletion of the budBAC operon in Klebsiella pneumoniae to understand the physiological role of 2,3-butanediol biosynthesis. Preparative Biochemistry and Biotechnology, 2016, 46, 410-419.	1.9	4
61	High Production of 2,3-Butanediol (2,3-BD) by Raoultella ornithinolytica B6 via Optimizing Fermentation Conditions and Overexpressing 2,3-BD Synthesis Genes. PLoS ONE, 2016, 11, e0165076.	2.5	9
62	Selection of Medium Components by Plackett-Burman Design for Cell Growth of a Newly Isolated Methylobacterium sp. WJ4. Korean Chemical Engineering Research, 2016, 54, 812-816.	0.2	0
63	Alleviation of carbon catabolite repression in Enterobacter aerogenes for efficient utilization of sugarcane molasses for 2,3-butanediol production. Biotechnology for Biofuels, 2015, 8, 106.	6.2	34
64	High production of 2,3-butanediol from biodiesel-derived crude glycerol by metabolically engineered Klebsiella oxytoca M1. Biotechnology for Biofuels, 2015, 8, 146.	6.2	81
65	Enhanced 2,3-Butanediol Production by Optimizing Fermentation Conditions and Engineering Klebsiella oxytoca M1 through Overexpression of Acetoin Reductase. PLoS ONE, 2015, 10, e0138109.	2.5	56
66	Adding value to plant oils and fatty acids: Biological transformation of fatty acids into Ï‰-hydroxycarboxylic, Î±,Ï‰-dicarboxylic, and Ï‰-aminocarboxylic acids. Journal of Biotechnology, 2015, 216, 158-166.	3.8	63
67	Cyclohexanone-induced stress metabolism of Escherichia coli and Corynebacterium glutamicum. Biotechnology and Bioprocess Engineering, 2015, 20, 1088-1098.	2.6	5
68	Characterization of negative regulatory genes for the biosynthesis of rapamycin in Streptomyces rapamycinicus and its application for improved production. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 125-135.	3.0	25
69	Complete genome sequence of Klebsiella oxytoca M1, isolated from Manripo area of South Korea. Journal of Biotechnology, 2015, 198, 1-2.	3.8	2
70	Expression levels of chaperones influence biotransformation activity of recombinant Escherichia coli expressing Micrococcus luteus alcohol dehydrogenase and Pseudomonas putida Baeyerâ€“Villiger monooxygenase. Biotechnology and Bioengineering, 2015, 112, 889-895.	3.3	23
71	Gas-liquid mass transfer coefficient of methane in bubble column reactor. Korean Journal of Chemical Engineering, 2015, 32, 1060-1063.	2.7	25
72	Industrial Production of 2,3-Butanediol from the Engineered Corynebacterium glutamicum. Applied Biochemistry and Biotechnology, 2015, 176, 2303-2313.	2.9	26

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73	Inactivation of the virulence factors from 2,3-butanediol-producing Klebsiella pneumoniae. Applied Microbiology and Biotechnology, 2015, 99, 9427-9438.	3.6	9
74	A non-pathogenic and optically high concentrated (R,R)-2,3-butanediol biosynthesizing Klebsiella strain. Journal of Biotechnology, 2015, 209, 7-13.	3.8	9
75	Hydrogen production by steam reforming of liquefied natural gas (LNG) over mesoporous nickelâ€“ironâ€“alumina catalyst. International Journal of Hydrogen Energy, 2015, 40, 5869-5877.	7.1	18
76	The influence of budA deletion on glucose metabolism related in 2,3-butanediol production by Klebsiella pneumoniae. Enzyme and Microbial Technology, 2015, 73-74, 1-8.	3.2	4
77	Effect of heterologous expression of genes involved in the elongation cycle of fatty acid synthesis on fatty acid production in Saccharomyces cerevisiae. Biotechnology and Bioprocess Engineering, 2015, 20, 1-9.	2.6	3
78	Biotransformation of oleic acid into 10-ketostearic acid by recombinant Corynebacterium glutamicum-based biocatalyst. Biotechnology Letters, 2015, 37, 1101-1106.	2.2	10
79	Optimization of cross flow filtration system for Dunaliella tertiolecta and Tetraselmis sp. microalgae harvest. Korean Journal of Chemical Engineering, 2015, 32, 1377-1380.	2.7	9
80	Enhancement of CH4-water mass transfer using methyl-modified mesoporous silica nanoparticles. Korean Journal of Chemical Engineering, 2015, 32, 1744-1748.	2.7	12
81	Characterization of Phosphoenolpyruvate Carboxylase from Oceanimonas smirnovii in Escherichia coli. Applied Biochemistry and Biotechnology, 2015, 177, 217-225.	2.9	3
82	Comparative whole genome transcriptome and metabolome analyses of five Klebsiella pneumonia strains. Bioprocess and Biosystems Engineering, 2015, 38, 2201-2219.	3.4	2
83	Microbial synthesis gas utilization and ways to resolve kinetic and mass-transfer limitations. Bioresource Technology, 2015, 177, 361-374.	9.6	91
84	Whole Cell Bioconversion of Ricinoleic Acid to 12-Ketooleic Acid by Recombinant Corynebacterium glutamicum-Based Biocatalyst. Journal of Microbiology and Biotechnology, 2015, 25, 452-458.	2.1	15
85	Engineering the substrate-binding domain of an esterase enhances its hydrolytic activity toward fatty acid esters. Process Biochemistry, 2014, 49, 2101-2106.	3.7	10
86	Hydrogen production by steam reforming of simulated liquefied natural gas (LNG) over nickel catalyst supported on mesoporous phosphorus-modified alumina xerogel. Applied Catalysis B: Environmental, 2014, 148-149, 269-280.	20.2	50
87	The regulation of 2,3-butanediol synthesis in Klebsiella pneumoniae as revealed by gene over-expressions and metabolic flux analysis. Bioprocess and Biosystems Engineering, 2014, 37, 343-353.	3.4	13
88	High activity and stability of codon-optimized phosphoenolpyruvate carboxylase from Photobacterium profundum SS9 at low temperatures and its application for in vitro production of oxaloacetate. Bioprocess and Biosystems Engineering, 2014, 37, 331-335.	3.4	3
89	Increased 2,3â€butanediol production by changing codon usages in <scp>E</scp>scherichia coli. Biotechnology and Applied Biochemistry, 2014, 61, 535-540.	3.1	9
90	Optimization of hollow fiber membrane cleaning process for microalgae harvest. Korean Journal of Chemical Engineering, 2014, 31, 949-955.	2.7	11

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91	Effect of internal pressure and gas/liquid interface area on the CO mass transfer coefficient using hollow fibre membranes as a high mass transfer gas diffusing system for microbial syngas fermentation. Bioresource Technology, 2014, 169, 637-643.	9.6	51
92	Enhanced free fatty acid production by codon-optimized Lactococcus lactis acyl-ACP thioesterase gene expression in Escherichia coli using crude glycerol. Enzyme and Microbial Technology, 2014, 67, 8-16.	3.2	10
93	Improvement of 2,3-Butanediol Yield in Klebsiella pneumoniae by Deletion of the Pyruvate Formate-Lyase Gene. Applied and Environmental Microbiology, 2014, 80, 6195-6203.	3.1	53
94	Transition metal-doped TiO2 nanowire catalysts for the oxidative coupling of methane. Catalysis Communications, 2014, 50, 54-58.	3.3	42
95	Harvesting of microalgae using flocculation combined with dissolved air flotation. Biotechnology and Bioprocess Engineering, 2014, 19, 143-149.	2.6	48
96	Production of Ï‰-hydroxyundec-9-enoic acid and n-heptanoic acid from ricinoleic acid by recombinant Escherichia coli-based biocatalyst. Process Biochemistry, 2014, 49, 617-622.	3.7	45
97	Redistribution of Carbon Flux toward 2,3-Butanediol Production in Klebsiella pneumoniae by Metabolic Engineering. PLoS ONE, 2014, 9, e105322.	2.5	17
98	Engineered Enterobacter aerogenes for efficient utilization of sugarcane molasses in 2,3-butanediol production. Bioresource Technology, 2013, 139, 21-27.	9.6	47
99	Selective Production of 2,3-Butanediol and Acetoin by a Newly Isolated Bacterium Klebsiella oxytoca M1. Applied Biochemistry and Biotechnology, 2013, 170, 1922-1933.	2.9	27
100	Correlations Between FAS Elongation Cycle Genes Expression and Fatty Acid Production for Improvement of Long-Chain Fatty Acids in Escherichia coli. Applied Biochemistry and Biotechnology, 2013, 169, 1606-1619.	2.9	10
101	Improvement of free fatty acid production in Escherichia coli using codon-optimized Streptococcus pyogenes acyl-ACP thioesterase. Bioprocess and Biosystems Engineering, 2013, 36, 1519-1525.	3.4	7
102	Enhanced activity of meso-secondary alcohol dehydrogenase from Klebsiella species by codon optimization. Bioprocess and Biosystems Engineering, 2013, 36, 1005-1010.	3.4	1
103	Effect of pH on the metabolic flux of Klebsiella oxytoca producing 2,3-butanediol in continuous cultures at different dilution rates. Bioprocess and Biosystems Engineering, 2013, 36, 845-855.	3.4	5
104	Expression, reconstruction and characterization of codon-optimized carbonic anhydrase from Hahella chejuensis for CO2 sequestration application. Bioprocess and Biosystems Engineering, 2013, 36, 375-381.	3.4	25
105	Removal of pathogenic factors from 2,3-butanediol-producing Klebsiella species by inactivating virulence-related wabG gene. Applied Microbiology and Biotechnology, 2013, 97, 1997-2007.	3.6	46
106	Hydrogen production by steam reforming of liquefied natural gas (LNG) over mesoporous alkaline earth metal-promoted nickel-alumina xerogel catalysts. Journal of Molecular Catalysis A, 2013, 380, 28-33.	4.8	12
107	Oxaloacetate and malate production in engineered Escherichia coli by expression of codon-optimized phosphoenolpyruvate carboxylase2 gene from Dunaliella salina. Bioprocess and Biosystems Engineering, 2013, 36, 127-131.	3.4	15
108	Observation of 2,3-butanediol biosynthesis in Lys regulator mutated Klebsiella pneumoniae at gene transcription level. Journal of Biotechnology, 2013, 168, 520-526.	3.8	14

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109	Enhancement of Long-Chain Fatty Acid Production in Escherichia coli by Coexpressing Genes, Including fabF, Involved in the Elongation Cycle of Fatty Acid Biosynthesis. Applied Biochemistry and Biotechnology, 2013, 169, 462-476.	2.9	12
110	Microbial production of 2,3 butanediol from seaweed hydrolysate using metabolically engineered Escherichia coli. Bioresource Technology, 2013, 136, 329-336.	9.6	72
111	Enzymatic coproduction of biodiesel and glycerol carbonate from soybean oil in solvent-free system. Enzyme and Microbial Technology, 2013, 53, 154-158.	3.2	34
112	Carbonic anhydrase: Its biocatalytic mechanisms and functional properties for efficient CO₂ capture process development. Engineering in Life Sciences, 2013, 13, 422-431.	3.6	39
113	Complete Genome Sequence of Raoultella ornithinolytica Strain B6, a 2,3-Butanediol-Producing Bacterium Isolated from Oil-Contaminated Soil. Genome Announcements, 2013, 1, .	0.8	22
114	Recent Insights in the Removal of Klebseilla Pathogenicity Factors for the Industrial Production of 2,3-Butanediol. Journal of Microbiology and Biotechnology, 2013, 23, 885-896.	2.1	27
115	Complete Genome Sequence of the 2,3-Butanediol-Producing Klebsiella pneumoniae Strain KCTC 2242. Journal of Bacteriology, 2012, 194, 2736-2737.	2.2	42
116	Complete Genome Sequence of Klebsiella oxytoca KCTC 1686, Used in Production of 2,3-Butanediol. Journal of Bacteriology, 2012, 194, 2371-2372.	2.2	27
117	Complete Genome Sequence of Enterobacter aerogenes KCTC 2190. Journal of Bacteriology, 2012, 194, 2373-2374.	2.2	45
118	Increased expression level and catalytic activity of internally-duplicated carbonic anhydrase from Dunaliella species by reconstitution of two separate domains. Process Biochemistry, 2012, 47, 1423-1427.	3.7	14
119	Production of 2,3-butanediol in Saccharomyces cerevisiae by in silico aided metabolic engineering. Microbial Cell Factories, 2012, 11, 68.	4.0	132
120	Enzymatic production of glycerol carbonate from by-product after biodiesel manufacturing process. Enzyme and Microbial Technology, 2012, 51, 143-147.	3.2	54
121	Expression and Characterization of Codon-Optimized Carbonic Anhydrase from Dunaliella Species for CO2 Sequestration Application. Applied Biochemistry and Biotechnology, 2012, 167, 2341-2356.	2.9	30
122	Expression of Codon-Optmized Phosphoenolpyruvate Carboxylase Gene from Glaciecola sp. HTCC2999 in Escherichia coli and its Application for C4 Chemical Production. Applied Biochemistry and Biotechnology, 2012, 167, 1845-1853.	2.9	7
123	Optimization of Pseudoalteromonas sp. JYBCL 1 culture conditions, medium composition and extracellular Î²-agarase activity. Biotechnology and Bioprocess Engineering, 2012, 17, 937-945.	2.6	2
124	Process design and evaluation of value-added chemicals production from biomass. Biotechnology and Bioprocess Engineering, 2012, 17, 1055-1061.	2.6	16
125	Toxic effects of titanium dioxide nanoparticles on microbial activity and metabolic flux. Biotechnology and Bioprocess Engineering, 2012, 17, 276-282.	2.6	22
126	Synthesis of Pure meso-2,3-Butanediol from Crude Glycerol Using an Engineered Metabolic Pathway in Escherichia coli. Applied Biochemistry and Biotechnology, 2012, 166, 1801-1813.	2.9	33

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127	Heterologous Co-expression of accA, fabD, and Thioesterase Genes for Improving Long-Chain Fatty Acid Production in Pseudomonas aeruginosa and Escherichia coli. Applied Biochemistry and Biotechnology, 2012, 167, 24-38.	2.9	11
128	Metabolic Profiling of Klebsiella oxytoca: Evaluation of Methods for Extraction of Intracellular Metabolites Using UPLC/Q-TOF-MS. Applied Biochemistry and Biotechnology, 2012, 167, 425-438.	2.9	32
129	Deletion of lactate dehydrogenase in Enterobacter aerogenes to enhance 2,3-butanediol production. Applied Microbiology and Biotechnology, 2012, 95, 461-469.	3.6	88
130	An analysis of the concentration change of intermediate metabolites by gene manipulation in fatty acid biosynthesis. Enzyme and Microbial Technology, 2012, 51, 95-99.	3.2	5
131	Identification of Factors Regulating Escherichia coli 2,3-Butanediol Production by Continuous Culture and Metabolic Flux Analysis. Journal of Microbiology and Biotechnology, 2012, 22, 659-667.	2.1	8
132	Improved Production of Long-Chain Fatty Acid in Escherichia coli by an Engineering Elongation Cycle During Fatty Acid Synthesis (FAS) Through Genetic Manipulation. Journal of Microbiology and Biotechnology, 2012, 22, 990-999.	2.1	28
133	Enhanced 2,3-Butanediol Production in Recombinant Klebsiella pneumoniae via Overexpression of Synthesis-Related Genes. Journal of Microbiology and Biotechnology, 2012, 22, 1258-1263.	2.1	48
134	Converting Carbohydrates Extracted from Marine Algae into Ethanol Using Various Ethanolic Escherichia coli Strains. Applied Biochemistry and Biotechnology, 2011, 164, 878-888.	2.9	110
135	Parameter estimation and dynamic control analysis of central carbon metabolism in Escherichia coli. Biotechnology and Bioprocess Engineering, 2011, 16, 216-228.	2.6	9
136	Tolerance of Saccharomyces cerevisiae K35 to lignocellulose-derived inhibitory compounds. Biotechnology and Bioprocess Engineering, 2011, 16, 755-760.	2.6	38
137	Improvement of fatty acid biosynthesis by engineered recombinant Escherichia coli. Biotechnology and Bioprocess Engineering, 2011, 16, 706-713.	2.6	24
138	Development of Escherichia coli MG1655 strains to produce long chain fatty acids by engineering fatty acid synthesis (FAS) metabolism. Enzyme and Microbial Technology, 2011, 49, 44-51.	3.2	29
139	Increased expression, folding and enzyme reaction rate of recombinant human insulin by selecting appropriate leader peptide. Journal of Biotechnology, 2011, 151, 350-356.	3.8	18
140	Dynamic Modeling of Lactic Acid Fermentation Metabolism with Lactococcus lactis. Journal of Microbiology and Biotechnology, 2011, 21, 162-169.	2.1	18
141	Isolation and Characterization of a Novel Agarase-Producing Pseudoalteromonas spp. Bacterium from the Guts of Spiny Turban Shells. Journal of Microbiology and Biotechnology, 2011, 21, 818-821.	2.1	10
142	Production of 1,2-Propanediol from Glycerol in Saccharomyces cerevisiae. Journal of Microbiology and Biotechnology, 2011, 21, 846-853.	2.1	55
143	Determination of the Intracellular Concentrations of Metabolites in Escherichia coli Collected during the Exponential and Stationary Growth Phases using Liquid Chromatography-Mass Spectrometry. Bulletin of the Korean Chemical Society, 2011, 32, 524-530.	1.9	15
144	Increased ethanol resistance in Ethanolic Escherichia coli by Insertion of heat-shock genes BEM1 and SOD2 from Saccharomyces cerevisiae. Biotechnology and Bioprocess Engineering, 2010, 15, 770-776.	2.6	7

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145	Strain development and medium optimization for fumaric acid production. Biotechnology and Bioprocess Engineering, 2010, 15, 761-769.	2.6	20
146	Production of minicellulosomes from Clostridium cellulovorans for the fermentation of cellulosic ethanol using engineered recombinant Saccharomyces cerevisiae. FEMS Microbiology Letters, 2010, 310, 39-47.	1.8	35
147	Computational identification of altered metabolism using gene expression and metabolic pathways. Biotechnology and Bioengineering, 2009, 103, 835-843.	3.3	11
148	Production of hydrogen from marine macro-algae biomass using anaerobic sewage sludge microflora. Biotechnology and Bioprocess Engineering, 2009, 14, 307-315.	2.6	92
149	Eco-toxicity of commercial silver nanopowders to bacterial and yeast strains. Biotechnology and Bioprocess Engineering, 2009, 14, 490-495.	2.6	45
150	Small-angle neutron scattering study of the miscibility of metallocene-catalyzed octene linear low-density polyethylene and low-density polyethylene blends. Journal of Applied Crystallography, 2009, 42, 161-168.	4.5	11
151	Cellulosic alcoholic fermentation using recombinantSaccharomyces cerevisiaeengineered for the production ofClostridium cellulovoransendoglucanase andSaccharomycopsis fibuligeraÃŽÂ²-glucosidase. FEMS Microbiology Letters, 2009, 301, 130-136.	1.8	53
152	Development of a Saccharomyces cerevisiae strain for the production of 1,2-propanediol by gene manipulation. Enzyme and Microbial Technology, 2009, 45, 42-47.	3.2	15
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154	Optimization and Scale-Up of Succinic Acid Production by Mannheimia succiniciproducens LPK7. Journal of Microbiology and Biotechnology, 2009, 19, 167-171.	2.1	28
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