

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	T-DNA insertional mutagenesis for functional genomics in rice. <i>Plant Journal</i> , 2000, 22, 561-570.	5.7	711
2	Effects of various pretreatments for enhanced anaerobic digestion with waste activated sludge. <i>Journal of Bioscience and Bioengineering</i> , 2003, 95, 271-275.	2.2	576
3	Metabolic Engineering of <i>Escherichia coli</i> for Enhanced Production of Succinic Acid, Based on Genome Comparison and In Silico Gene Knockout Simulation. <i>Applied and Environmental Microbiology</i> , 2005, 71, 7880-7887.	3.1	282
4	Evaluation of the toxic impact of silver nanoparticles on Japanese medaka (<i>Oryzias latipes</i>). <i>Aquatic Toxicology</i> , 2009, 94, 320-327.	4.0	252
5	Hydrothermal Acid Pretreatment of <i>Chlamydomonas reinhardtii</i> Biomass for Ethanol Production. <i>Journal of Microbiology and Biotechnology</i> , 2009, 19, 161-166.	2.1	182
6	The rice heterochronic gene SUPERNUMERARY BRACT regulates the transition from spikelet meristem to floral meristem. <i>Plant Journal</i> , 2006, 49, 64-78.	5.7	154
7	Biodegradation and biosorption for decolorization of synthetic dyes by <i>Funalia trogii</i> . <i>Biochemical Engineering Journal</i> , 2007, 36, 59-65.	3.6	150
8	Production of 2,3-butanediol in <i>Saccharomyces cerevisiae</i> by in silico aided metabolic engineering. <i>Microbial Cell Factories</i> , 2012, 11, 68.	4.0	132
9	Transgene structures in T-DNA-inserted rice plants. <i>Plant Molecular Biology</i> , 2003, 52, 761-773.	3.9	127
10	Mutations in the rice <i>liguleless</i> gene result in a complete loss of the auricle, ligule, and laminar joint. <i>Plant Molecular Biology</i> , 2007, 65, 487-499.	3.9	122
11	Converting Carbohydrates Extracted from Marine Algae into Ethanol Using Various Ethanolic <i>Escherichia coli</i> Strains. <i>Applied Biochemistry and Biotechnology</i> , 2011, 164, 878-888.	2.9	110
12	Pilot scale treatment of textile wastewater by combined process (fluidized biofilm process + chemical) Tj ETQq 0.0 rgBT /Overlock 10	11.3	109
13	Systematic Reverse Genetic Screening of T-DNA Tagged Genes in Rice for Functional Genomic Analyses: MADS-box Genes as a Test Case. <i>Plant and Cell Physiology</i> , 2003, 44, 1403-1411.	3.1	95
14	Production of hydrogen from marine macro-algae biomass using anaerobic sewage sludge microflora. <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 307-315.	2.6	92
15	Microbial synthesis gas utilization and ways to resolve kinetic and mass-transfer limitations. <i>Bioresource Technology</i> , 2015, 177, 361-374.	9.6	91
16	Deletion of lactate dehydrogenase in <i>Enterobacter aerogenes</i> to enhance 2,3-butanediol production. <i>Applied Microbiology and Biotechnology</i> , 2012, 95, 461-469.	3.6	88
17	High production of 2,3-butanediol from biodiesel-derived crude glycerol by metabolically engineered <i>Klebsiella oxytoca</i> M1. <i>Biotechnology for Biofuels</i> , 2015, 8, 146.	6.2	81
18	COD reduction and decolorization of textile effluent using a combined process. <i>Journal of Bioscience and Bioengineering</i> , 2003, 95, 102-105.	2.2	72

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19	Microbial production of 2,3 butanediol from seaweed hydrolysate using metabolically engineered <i>Escherichia coli</i> . <i>Bioresource Technology</i> , 2013, 136, 329-336.	9.6	72
20	Identification and Functional Analysis of Light-Responsive Unique Genes and Gene Family Members in Rice. <i>PLoS Genetics</i> , 2008, 4, e1000164.	3.5	69
21	Sustainable Production of Bioplastics from Lignocellulosic Biomass: Technoeconomic Analysis and Life-Cycle Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12419-12429.	6.7	64
22	Adding value to plant oils and fatty acids: Biological transformation of fatty acids into β -hydroxycarboxylic, γ -dicarboxylic, and α -aminocarboxylic acids. <i>Journal of Biotechnology</i> , 2015, 216, 158-166.	3.8	63
23	Natural variations at the Stay-Green gene promoter control lifespan and yield in rice cultivars. <i>Nature Communications</i> , 2020, 11, 2819.	12.8	62
24	Enhanced 2,3-Butanediol Production by Optimizing Fermentation Conditions and Engineering <i>Klebsiella oxytoca</i> M1 through Overexpression of Acetoin Reductase. <i>PLoS ONE</i> , 2015, 10, e0138109.	2.5	56
25	Production of 1,2-Propanediol from Glycerol in <i>Saccharomyces cerevisiae</i> . <i>Journal of Microbiology and Biotechnology</i> , 2011, 21, 846-853.	2.1	55
26	Enzymatic production of glycerol carbonate from by-product after biodiesel manufacturing process. <i>Enzyme and Microbial Technology</i> , 2012, 51, 143-147.	3.2	54
27	Cellulosic alcoholic fermentation using recombinant <i>Saccharomyces cerevisiae</i> engineered for the production of <i>Clostridium cellulovorans</i> endoglucanase and <i>Saccharomycopsis fibuligera</i> α -glucosidase. <i>FEMS Microbiology Letters</i> , 2009, 301, 130-136.	1.8	53
28	Improvement of 2,3-Butanediol Yield in <i>Klebsiella pneumoniae</i> by Deletion of the Pyruvate Formate-Lyase Gene. <i>Applied and Environmental Microbiology</i> , 2014, 80, 6195-6203.	3.1	53
29	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. <i>Bioresource Technology</i> , 2014, 169, 637-643.	9.6	51
30	Hydrogen production by steam reforming of simulated liquefied natural gas (LNG) over nickel catalyst supported on mesoporous phosphorus-modified alumina xerogel. <i>Applied Catalysis B: Environmental</i> , 2014, 148-149, 269-280.	20.2	50
31	Harvesting of microalgae using flocculation combined with dissolved air flotation. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 143-149.	2.6	48
32	Enhanced 2,3-Butanediol Production in Recombinant <i>Klebsiella pneumoniae</i> via Overexpression of Synthesis-Related Genes. <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 1258-1263.	2.1	48
33	Engineered <i>Enterobacter aerogenes</i> for efficient utilization of sugarcane molasses in 2,3-butanediol production. <i>Bioresource Technology</i> , 2013, 139, 21-27.	9.6	47
34	Removal of pathogenic factors from 2,3-butanediol-producing <i>Klebsiella</i> species by inactivating virulence-related <i>wabG</i> gene. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1997-2007.	3.6	46
35	Optimization for biodegradation of 2,4,6-trinitrotoluene (TNT) by <i>Pseudomonas putida</i> . <i>Journal of Bioscience and Bioengineering</i> , 2003, 95, 567-571.	2.2	45
36	Decolorization of acid black 52 by fungal immobilization. <i>Enzyme and Microbial Technology</i> , 2006, 39, 371-374.	3.2	45

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37	Eco-toxicity of commercial silver nanopowders to bacterial and yeast strains. <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 490-495.	2.6	45
38	Complete Genome Sequence of <i>Enterobacter aerogenes</i> KCTC 2190. <i>Journal of Bacteriology</i> , 2012, 194, 2373-2374.	2.2	45
39	Production of 10-hydroxyundec-9-enoic acid and n-heptanoic acid from ricinoleic acid by recombinant <i>Escherichia coli</i> -based biocatalyst. <i>Process Biochemistry</i> , 2014, 49, 617-622.	3.7	45
40	Complete Genome Sequence of the 2,3-Butanediol-Producing <i>Klebsiella pneumoniae</i> Strain KCTC 2242. <i>Journal of Bacteriology</i> , 2012, 194, 2736-2737.	2.2	42
41	Transition metal-doped TiO ₂ nanowire catalysts for the oxidative coupling of methane. <i>Catalysis Communications</i> , 2014, 50, 54-58.	3.3	42
42	Optimization and morphology for decolorization of reactive black 5 by <i>Funalia trogii</i> . <i>Enzyme and Microbial Technology</i> , 2007, 40, 1758-1764.	3.2	41
43	Carbonic anhydrase: Its biocatalytic mechanisms and functional properties for efficient CO ₂ capture process development. <i>Engineering in Life Sciences</i> , 2013, 13, 422-431.	3.6	39
44	OsASN1 Overexpression in Rice Increases Grain Protein Content and Yield under Nitrogen-Limiting Conditions. <i>Plant and Cell Physiology</i> , 2020, 61, 1309-1320.	3.1	39
45	Metal-free cathodic catalyst with nitrogen- and phosphorus-doped ordered mesoporous carbon (NPOMC) for microbial fuel cells. <i>Journal of Power Sources</i> , 2020, 451, 227816.	7.8	39
46	Tolerance of <i>Saccharomyces cerevisiae</i> K35 to lignocellulose-derived inhibitory compounds. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 755-760.	2.6	38
47	Production of minicellulosomes from <i>Clostridium cellulovorans</i> for the fermentation of cellulosic ethanol using engineered recombinant <i>Saccharomyces cerevisiae</i> . <i>FEMS Microbiology Letters</i> , 2010, 310, 39-47.	1.8	35
48	Metabolic engineering of type II methanotroph, <i>Methylosinus trichosporium</i> OB3b, for production of 3-hydroxypropionic acid from methane via a malonyl-CoA reductase-dependent pathway. <i>Metabolic Engineering</i> , 2020, 59, 142-150.	7.0	35
49	Suppressed acid formation by cofeeding of glucose and citrate in <i>Bacillus</i> cultures: emergence of pyruvate kinase as a potential metabolic engineering site. <i>Biotechnology Progress</i> , 1995, 11, 380-385.	2.6	34
50	Enzymatic coproduction of biodiesel and glycerol carbonate from soybean oil in solvent-free system. <i>Enzyme and Microbial Technology</i> , 2013, 53, 154-158.	3.2	34
51	Alleviation of carbon catabolite repression in <i>Enterobacter aerogenes</i> for efficient utilization of sugarcane molasses for 2,3-butanediol production. <i>Biotechnology for Biofuels</i> , 2015, 8, 106.	6.2	34
52	Recent Advances in the Metabolic Engineering of <i>Klebsiella pneumoniae</i> : A Potential Platform Microorganism for Biorefineries. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 48-64.	2.6	34
53	Synthesis of Pure meso-2,3-Butanediol from Crude Glycerol Using an Engineered Metabolic Pathway in <i>Escherichia coli</i> . <i>Applied Biochemistry and Biotechnology</i> , 2012, 166, 1801-1813.	2.9	33
54	Metabolic Profiling of <i>Klebsiella oxytoca</i> : Evaluation of Methods for Extraction of Intracellular Metabolites Using UPLC/Q-TOF-MS. <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 425-438.	2.9	32

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55	Zeolite-Like Metal Organic Framework (ZMOF) with a ρ Topology for a CO ₂ Cycloaddition to Epoxides. ACS Sustainable Chemistry and Engineering, 2020, 8, 7078-7086.	6.7	32
56	Expression and Characterization of Codon-Optimized Carbonic Anhydrase from Dunaliella Species for CO ₂ Sequestration Application. Applied Biochemistry and Biotechnology, 2012, 167, 2341-2356.	2.9	30
57	Effects of polymer concentration and zone drawing on the structure and properties of biodegradable poly(butylene succinate) film. Polymer, 2000, 41, 9055-9062.	3.8	29
58	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
59	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
60	Optimization and Scale-Up of Succinic Acid Production by Mannheimia succiniciproducens LPK7. Journal of Microbiology and Biotechnology, 2009, 19, 167-171.	2.1	28
61	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
62	Biokinetic parameter estimation for degradation of 2,4,6-trinitrotoluene (TNT) with Pseudomonas putida KP-T201. Journal of Bioscience and Bioengineering, 2002, 94, 57-61.	2.2	27
63	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
64	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
65	Recent Insights in the Removal of Klebsiella Pathogenicity Factors for the Industrial Production of 2,3-Butanediol. Journal of Microbiology and Biotechnology, 2013, 23, 885-896.	2.1	27
66	Industrial Production of 2,3-Butanediol from the Engineered Corynebacterium glutamicum. Applied Biochemistry and Biotechnology, 2015, 176, 2303-2313.	2.9	26
67	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
68	Small Current but Highly Productive Synthesis of 1,3-Propanediol from Glycerol by an Electrode-Driven Metabolic Shift in Klebsiella pneumoniae L17. ChemSusChem, 2020, 13, 564-573.	6.8	26
69	Expression, reconstruction and characterization of codon-optimized carbonic anhydrase from Hahella chejuensis for CO ₂ sequestration application. Bioprocess and Biosystems Engineering, 2013, 36, 375-381.	3.4	25
70	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
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	Effect of the molecular weight of poly(vinyl alcohol) on the water stability of a syndiotactic poly(vinyl alcohol)/iodine complex film. Colloid and Polymer Science, 2003, 281, 416-422.	2.1	24

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73	Improvement of fatty acid biosynthesis by engineered recombinant <i>Escherichia coli</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 706-713.	2.6	24
74	Improved fermentation of lignocellulosic hydrolysates to 2,3-butanediol through investigation of effects of inhibitory compounds by <i>Enterobacter aerogenes</i> . <i>Chemical Engineering Journal</i> , 2016, 306, 916-924.	12.7	24
75	Preparation of high molecular weight poly(vinyl alcohol) with high yield using low-temperature solution polymerization of vinyl acetate. <i>Journal of Applied Polymer Science</i> , 2001, 80, 1003-1012.	2.6	23
76	Bioremediation of 2,4,6-trinitrotoluene contaminated soil in slurry and column reactors. <i>Journal of Bioscience and Bioengineering</i> , 2003, 96, 429-433.	2.2	23
77	Expression levels of chaperones influence biotransformation activity of recombinant <i>Escherichia coli</i> expressing <i>Micrococcus luteus</i> alcohol dehydrogenase and <i>Pseudomonas putida</i> Baeyer-Villiger monooxygenase. <i>Biotechnology and Bioengineering</i> , 2015, 112, 889-895.	3.3	23
78	Toxic effects of titanium dioxide nanoparticles on microbial activity and metabolic flux. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 276-282.	2.6	22
79	Complete Genome Sequence of <i>Raoultella ornithinolytica</i> Strain B6, a 2,3-Butanediol-Producing Bacterium Isolated from Oil-Contaminated Soil. <i>Genome Announcements</i> , 2013, 1, .	0.8	22
80	Mevalonate production from ethanol by direct conversion through acetyl-CoA using recombinant <i>Pseudomonas putida</i> , a novel biocatalyst for terpenoid production. <i>Microbial Cell Factories</i> , 2019, 18, 168.	4.0	22
81	Molecular bases for differential aging programs between flag and second leaves during grain-filling in rice. <i>Scientific Reports</i> , 2017, 7, 8792.	3.3	21
82	Syndiotacticity-rich ultrahigh molecular-weight poly(vinyl alcohol) film. I. Determination of optimum polymer concentration by zone-drawing method in film preparation. <i>Journal of Applied Polymer Science</i> , 2000, 77, 123-134.	2.6	20
83	Strain development and medium optimization for fumaric acid production. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 761-769.	2.6	20
84	Efficient simultaneous production of biodiesel and glycerol carbonate via statistical optimization. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 51, 49-53.	5.8	20
85	Simultaneous production of 1,6-hexanediol, furfural, and high-purity lignin from white birch: Process integration and techno-economic evaluation. <i>Bioresource Technology</i> , 2021, 331, 125009.	9.6	19
86	Increased expression, folding and enzyme reaction rate of recombinant human insulin by selecting appropriate leader peptide. <i>Journal of Biotechnology</i> , 2011, 151, 350-356.	3.8	18
87	Hydrogen production by steam reforming of liquefied natural gas (LNG) over mesoporous nickel-iron alumina catalyst. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5869-5877.	7.1	18
88	Dynamic Modeling of Lactic Acid Fermentation Metabolism with <i>Lactococcus lactis</i> . <i>Journal of Microbiology and Biotechnology</i> , 2011, 21, 162-169.	2.1	18
89	Enhanced mass transfer rate of methane in aqueous phase via methyl-functionalized SBA-15. <i>Journal of Molecular Liquids</i> , 2016, 215, 154-160.	4.9	17
90	Synthetic Formatotrophs for One-Carbon Biorefinery. <i>Advanced Science</i> , 2021, 8, 2100199.	11.2	17

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91	Redistribution of Carbon Flux toward 2,3-Butanediol Production in <i>Klebsiella pneumoniae</i> by Metabolic Engineering. <i>PLoS ONE</i> , 2014, 9, e105322.	2.5	17
92	Process design and evaluation of value-added chemicals production from biomass. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 1055-1061.	2.6	16
93	Engineering <i>Escherichia coli</i> BL21 genome to improve the heptanoic acid tolerance by using CRISPR-Cas9 system. <i>Biotechnology and Bioprocess Engineering</i> , 2017, 22, 231-238.	2.6	16
94	Integrated strategy for coproducing bioethanol and adipic acid from lignocellulosic biomass. <i>Journal of Cleaner Production</i> , 2021, 311, 127849.	9.3	16
95	Economic evaluation for four different solid sorbent processes with heat integration for energy-efficient CO ₂ capture based on PEI-silica sorbent. <i>Energy</i> , 2022, 238, 121864.	8.8	16
96	Effect of emulsion polymerization conditions of vinyl acetate on the viscosity fluctuation and gelation behavior of aqueous poly(vinyl alcohol) solution. <i>Journal of Applied Polymer Science</i> , 2001, 82, 1897-1902.	2.6	15
97	Development of a <i>Saccharomyces cerevisiae</i> strain for the production of 1,2-propanediol by gene manipulation. <i>Enzyme and Microbial Technology</i> , 2009, 45, 42-47.	3.2	15
98	Oxaloacetate and malate production in engineered <i>Escherichia coli</i> by expression of codon-optimized phosphoenolpyruvate carboxylase2 gene from <i>Dunaliella salina</i> . <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 127-131.	3.4	15
99	Whole Cell Bioconversion of Ricinoleic Acid to 12-Ketooleic Acid by Recombinant <i>Corynebacterium glutamicum</i> -Based Biocatalyst. <i>Journal of Microbiology and Biotechnology</i> , 2015, 25, 452-458.	2.1	15
100	Determination of the Intracellular Concentrations of Metabolites in <i>Escherichia coli</i> Collected during the Exponential and Stationary Growth Phases using Liquid Chromatography-Mass Spectrometry. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 524-530.	1.9	15
101	Increased expression level and catalytic activity of internally-duplicated carbonic anhydrase from <i>Dunaliella</i> species by reconstitution of two separate domains. <i>Process Biochemistry</i> , 2012, 47, 1423-1427.	3.7	14
102	Observation of 2,3-butanediol biosynthesis in <i>Lys</i> regulator mutated <i>Klebsiella pneumoniae</i> at gene transcription level. <i>Journal of Biotechnology</i> , 2013, 168, 520-526.	3.8	14
103	Enhanced production of ectoine from methane using metabolically engineered <i>Methylobacterium alcaliphilum</i> 20Z. , 2022, 15, 5.		14
104	Bulk polymerization of vinyl pivalate using low-temperature azoinitiator and saponification for the preparation of poly(vinyl alcohol) microfibrils. <i>Angewandte Makromolekulare Chemie</i> , 1999, 271, 46-52.	0.2	13
105	The regulation of 2,3-butanediol synthesis in <i>Klebsiella pneumoniae</i> as revealed by gene over-expressions and metabolic flux analysis. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 343-353.	3.4	13
106	Preparation of high molecular weight poly(methyl methacrylate) with high yield by room temperature suspension polymerization of methyl methacrylate. <i>Fibers and Polymers</i> , 2004, 5, 75-81.	2.1	12
107	Hydrogen production by steam reforming of liquefied natural gas (LNG) over mesoporous alkaline earth metal-promoted nickel-alumina xerogel catalysts. <i>Journal of Molecular Catalysis A</i> , 2013, 380, 28-33.	4.8	12
108	Enhancement of Long-Chain Fatty Acid Production in <i>Escherichia coli</i> by Coexpressing Genes, Including <i>fabF</i> , Involved in the Elongation Cycle of Fatty Acid Biosynthesis. <i>Applied Biochemistry and Biotechnology</i> , 2013, 169, 462-476.	2.9	12

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109	Enhancement of CH ₄ -water mass transfer using methyl-modified mesoporous silica nanoparticles. Korean Journal of Chemical Engineering, 2015, 32, 1744-1748.	2.7	12
110	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
111	Increased incorporation of gaseous CO ₂ into succinate by <i>Escherichia coli</i> overexpressing carbonic anhydrase and phosphoenolpyruvate carboxylase genes. Journal of Biotechnology, 2017, 241, 101-107.	3.8	12
112	Hydrogen Production from Methane by <i>Methylomonas</i> sp. DH-1 under Micro-aerobic Conditions. Biotechnology and Bioprocess Engineering, 2020, 25, 71-77.	2.6	12
113	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
114	OsbHLH073 Negatively Regulates Internode Elongation and Plant Height by Modulating GA Homeostasis in Rice. Plants, 2020, 9, 547.	3.5	12
115	Supply of proton enhances CO electro-synthesis for acetate and volatile fatty acid productions. Bioresource Technology, 2021, 320, 124245.	9.6	12
116	Chemoenzymatic Cascade Conversion of Linoleic Acid into a Secondary Fatty Alcohol Using a Combination of 13 <i>S</i> -Lipoxygenase, Chemical Reduction, and a Photo-Activated Decarboxylase. ACS Sustainable Chemistry and Engineering, 2021, 9, 10837-10845.	6.7	12
117	Regulatory analysis of amino acid synthesis pathway in <i>Escherichia coli</i> : aspartate family. Enzyme and Microbial Technology, 2004, 35, 694-706.	3.2	11
118	Computational identification of altered metabolism using gene expression and metabolic pathways. Biotechnology and Bioengineering, 2009, 103, 835-843.	3.3	11
119	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
120	Heterologous Co-expression of <i>accA</i> , <i>fabD</i> , and Thioesterase Genes for Improving Long-Chain Fatty Acid Production in <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i> . Applied Biochemistry and Biotechnology, 2012, 167, 24-38.	2.9	11
121	Optimization of hollow fiber membrane cleaning process for microalgae harvest. Korean Journal of Chemical Engineering, 2014, 31, 949-955.	2.7	11
122	Mass Transfer Performance of a String Film Reactor: A Bioreactor Design for Aerobic Methane Bioconversion. Catalysts, 2018, 8, 490.	3.5	11
123	Solution polymerization behavior of acrylonitrile by moderate temperature azoinitiator. European Polymer Journal, 1999, 35, 647-653.	5.4	10
124	Role of the stereosequences of poly(vinyl alcohol) in the rheological properties of syndiotacticity-rich poly(vinyl alcohol)/water solutions. Journal of Applied Polymer Science, 2003, 88, 1858-1863.	2.6	10
125	Correlations Between FAS Elongation Cycle Genes Expression and Fatty Acid Production for Improvement of Long-Chain Fatty Acids in <i>Escherichia coli</i> . Applied Biochemistry and Biotechnology, 2013, 169, 1606-1619.	2.9	10
126	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

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127	Enhanced free fatty acid production by codon-optimized <i>Lactococcus lactis</i> acyl-ACP thioesterase gene expression in <i>Escherichia coli</i> using crude glycerol. <i>Enzyme and Microbial Technology</i> , 2014, 67, 8-16.	3.2	10
128	Biotransformation of oleic acid into 10-ketostearic acid by recombinant <i>Corynebacterium glutamicum</i> -based biocatalyst. <i>Biotechnology Letters</i> , 2015, 37, 1101-1106.	2.2	10
129	Isolation and Characterization of a Novel Agarase-Producing <i>Pseudoalteromonas</i> spp. Bacterium from the Guts of Spiny Turban Shells. <i>Journal of Microbiology and Biotechnology</i> , 2011, 21, 818-821.	2.1	10
130	System-Level Analysis of Methanol Production from Shale Gas Integrated with Multibed-BTX Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5998-6011.	6.7	10
131	Parameter estimation and dynamic control analysis of central carbon metabolism in <i>Escherichia coli</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 216-228.	2.6	9
132	Increased 2,3-butanediol production by changing codon usages in <i>Escherichia coli</i> . <i>Biotechnology and Applied Biochemistry</i> , 2014, 61, 535-540.	3.1	9
133	Inactivation of the virulence factors from 2,3-butanediol-producing <i>Klebsiella pneumoniae</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 9427-9438.	3.6	9
134	A non-pathogenic and optically high concentrated (R,R)-2,3-butanediol biosynthesizing <i>Klebsiella</i> strain. <i>Journal of Biotechnology</i> , 2015, 209, 7-13.	3.8	9
135	Optimization of cross flow filtration system for <i>Dunaliella tertiolecta</i> and <i>Tetraselmis</i> sp. microalgae harvest. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 1377-1380.	2.7	9
136	Enhanced mass transfer rate and solubility of methane via addition of alcohols for <i>Methylosinus trichosporium</i> OB3b fermentation. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 46, 350-355.	5.8	9
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