

# Sun-Mee Lee

## List of Publications by Year in Descending Order

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

198  
papers

5,571  
citations

37  
h-index

67  
g-index

204  
ext. papers

6,216  
ext. citations

4.6  
avg, IF

5.51  
L-index

#	Paper	IF	Citations
198	Enhanced production of ectoine from methane using metabolically engineered <i>Methylobacterium alcaliphilum</i> 20Z. <b>2022</b> , 15, 5		0
197	Kinetic modeling of Polyamine-based Water-Lean solvents for CO <sub>2</sub> capture: Reverse temperature dependence of the overall mass transfer coefficient. <i>Chemical Engineering Science</i> , <b>2022</b> , 249, 117355	4.4	1
196	Economic evaluation for four different solid sorbent processes with heat integration for energy-efficient CO <sub>2</sub> capture based on PEI-silica sorbent. <i>Energy</i> , <b>2022</b> , 238, 121864	7.9	4
195	System-Level Analysis of Methanol Production from Shale Gas Integrated with Multibed-BTX Production. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 5998-6011	8.3	0
194	Indirect methyl acetate production process based on dimethyl ether using seed-derived ferrierite from shale gas. <i>Fuel</i> , <b>2021</b> , 310, 122408	7.1	2
193	Pseudo counter-current turbulent fluidized bed process with sensible heat recovery for energy-efficient CO <sub>2</sub> capture using an amine-functionalized solid sorbent. <i>Energy</i> , <b>2021</b> , 240, 122803	7.9	1
192	Thermodynamic and kinetic modeling of a novel polyamine-based solvent for energy-efficient CO <sub>2</sub> capture with energy analysis. <i>Energy</i> , <b>2021</b> , 122347	7.9	0
191	Synthetic Formatotrophs for One-Carbon Biorefinery. <i>Advanced Science</i> , <b>2021</b> , 8, 2100199	13.6	5
190	Simultaneous production of 1,6-hexanediol, furfural, and high-purity lignin from white birch: Process integration and techno-economic evaluation. <i>Bioresource Technology</i> , <b>2021</b> , 331, 125009	11	6
189	Supply of proton enhances CO electro-synthesis for acetate and volatile fatty acid productions. <i>Bioresource Technology</i> , <b>2021</b> , 320, 124245	11	5
188	Chemoenzymatic Cascade Conversion of Linoleic Acid into a Secondary Fatty Alcohol Using a Combination of 13S-Lipoxygenase, Chemical Reduction, and a Photo-Activated Decarboxylase. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 10837-10845	8.3	2
187	Bacterial Outer Membrane Vesicles as Nano-Scale Bioreactors: A Fatty Acid Conversion Case Study. <i>ChemCatChem</i> , <b>2021</b> , 13, 4080	5.2	4
186	Integrated strategy for coproducing bioethanol and adipic acid from lignocellulosic biomass. <i>Journal of Cleaner Production</i> , <b>2021</b> , 311, 127849	10.3	4
185	OsGRAS19 and OsGRAS32 Control Tiller Development in Rice. <i>Plant Breeding and Biotechnology</i> , <b>2021</b> , 9, 239-249	1.2	
184	Design of a water wash column in the CO <sub>2</sub> capture process using a polyamine-based water-lean solvent. <i>Journal of Natural Gas Science and Engineering</i> , <b>2021</b> , 95, 104204	4.6	2
183	A novel hyperthermophilic methylglyoxal synthase: molecular dynamic analysis on the regional fluctuations. <i>Scientific Reports</i> , <b>2021</b> , 11, 2538	4.9	0
182	OsASN1 Overexpression in Rice Increases Grain Protein Content and Yield under Nitrogen-Limiting Conditions. <i>Plant and Cell Physiology</i> , <b>2020</b> , 61, 1309-1320	4.9	18

181	Natural variations at the Stay-Green gene promoter control lifespan and yield in rice cultivars. <i>Nature Communications</i> , <b>2020</b> , 11, 2819	17.4	22
180	Hydrogen Production from Methane by <i>Methylomonas</i> sp. DH-1 under Micro-aerobic Conditions. <i>Biotechnology and Bioprocess Engineering</i> , <b>2020</b> , 25, 71-77	3.1	7
179	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> , <b>2020</b> , 59, 142-150	9.7	15
178	Ethanol conversion into 1,3-butadiene over Zn Zr mixed oxide catalysts supported on ordered mesoporous materials. <i>Fuel Processing Technology</i> , <b>2020</b> , 200, 106317	7.2	4
177	Adjusting Hydrocarbon Distribution on the Stabilized Al-Modified Mesoporous Co <sub>3</sub> O <sub>4</sub> -Fe <sub>2</sub> O <sub>3</sub> Bimetal Oxides for CO Hydrogenation. <i>ChemCatChem</i> , <b>2020</b> , 12, 2304-2314	5.2	4
176	Metal-free cathodic catalyst with nitrogen- and phosphorus-doped ordered mesoporous carbon (NPOMC) for microbial fuel cells. <i>Journal of Power Sources</i> , <b>2020</b> , 451, 227816	8.9	25
175	Negatively Regulates Internode Elongation and Plant Height by Modulating GA Homeostasis in Rice. <i>Plants</i> , <b>2020</b> , 9,	4.5	6
174	Zeolite-Like Metal Organic Framework (ZMOF) with a rho Topology for a CO <sub>2</sub> Cycloaddition to Epoxides. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 7078-7086	8.3	14
173	Small Current but Highly Productive Synthesis of 1,3-Propanediol from Glycerol by an Electrode-Driven Metabolic Shift in <i>Klebsiella pneumoniae</i> L17. <i>ChemSusChem</i> , <b>2020</b> , 13, 564-573	8.3	18
172	Stimulation of cell growth by addition of tungsten in batch culture of a methanotrophic bacterium, <i>Methylomicrobium alcaliphilum</i> 20Z on methane and methanol. <i>Journal of Biotechnology</i> , <b>2020</b> , 309, 81-84	3.7	1
171	Sustainable Production of Bioplastics from Lignocellulosic Biomass: Technoeconomic Analysis and Life-Cycle Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 12419-12429	8.3	27
170	Sonochemical synthesis of rho-ZMOF catalyst for an enhanced CO <sub>2</sub> cycloaddition reaction. <i>Materials Letters</i> , <b>2020</b> , 277, 128387	3.3	2
169	Engineering <i>Pseudomonas putida</i> KT2440 to convert 2,3-butanediol to mevalonate. <i>Enzyme and Microbial Technology</i> , <b>2020</b> , 132, 109437	3.8	4
168	Structure-based Mutational Studies of D-3-hydroxybutyrate Dehydrogenase for Substrate Recognition of Aliphatic Hydroxy Acids with a Variable Length of Carbon Chain. <i>Biotechnology and Bioprocess Engineering</i> , <b>2019</b> , 24, 605-612	3.1	4
167	Active Surface Hydrophobicity Switching and Dynamic Interfacial Trapping of Microbial Cells by Metal Nanoparticles for Preconcentration and In-Plane Optical Detection. <i>Nano Letters</i> , <b>2019</b> , 19, 7449-7456	11.5	5
166	Enhanced Incorporation of Gaseous CO <sub>2</sub> to Succinate by a Recombinant <i>Escherichia coli</i> W3110. <i>Biotechnology and Bioprocess Engineering</i> , <b>2019</b> , 24, 103-108	3.1	4
165	Recent Advances in the Metabolic Engineering of <i>Klebsiella pneumoniae</i> : A Potential Platform Microorganism for Biorefineries. <i>Biotechnology and Bioprocess Engineering</i> , <b>2019</b> , 24, 48-64	3.1	27
164	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> , <b>2019</b> , 18, 168	6.4	10

163	Mutation of Plastid Ribosomal Protein L13 Results in an Albino Seedling-Lethal Phenotype in Rice. <i>Plant Breeding and Biotechnology</i> , <b>2019</b> , 7, 395-404	1.2	2
162	Impaired Plastid Ribosomal Protein L3 Causes Albino Seedling Lethal Phenotype in Rice <b>2019</b> , 62, 419-428		2
161	Microbial synthesis of undec-9-enoic acid, heptyl ester from renewable fatty acids using recombinant <i>Corynebacterium glutamicum</i> -based whole-cell biocatalyst. <i>Process Biochemistry</i> , <b>2018</b> , 66, 61-69	4.8	4
160	Microbial production of uracil by an isolated <i>Methylobacterium</i> sp. WJ4 using methanol. <i>Enzyme and Microbial Technology</i> , <b>2018</b> , 111, 63-66	3.8	1
159	Intracellular transformation rates of fatty acids are influenced by expression of the fatty acid transporter FadL in <i>Escherichia coli</i> cell membrane. <i>Journal of Biotechnology</i> , <b>2018</b> , 281, 161-167	3.7	21
158	Mass Transfer Performance of a String Film Reactor: A Bioreactor Design for Aerobic Methane Bioconversion. <i>Catalysts</i> , <b>2018</b> , 8, 490	4	7
157	GCMS Method for the Quantitative Analysis of Limonene from Genetically Engineered <i>Saccharomyces cerevisiae</i> . <i>Bulletin of the Korean Chemical Society</i> , <b>2018</b> , 39, 1368-1372	1.2	0
156	Comparison of metabolite profiling of <i>Ralstonia eutropha</i> H16 phaBCA mutants grown on different carbon sources. <i>Korean Journal of Chemical Engineering</i> , <b>2017</b> , 34, 797-805	2.8	5
155	High production of 2,3-butanediol from glycerol without 1,3-propanediol formation by <i>Raoultella ornithinolytica</i> B6. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 2821-2830	5.7	20
154	Efficient simultaneous production of biodiesel and glycerol carbonate via statistical optimization. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 51, 49-53	6.3	17
153	Cationic surfactant as methane/water mass transfer enhancer for the fermentation of <i>Methylosinus trichosporium</i> OB3b. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 53, 228-232	6.3	2
152	Expression and characterization of a codon-optimized alkaline-stable carbonic anhydrase from <i>Aliivibrio salmonicida</i> for CO sequestration applications. <i>Bioprocess and Biosystems Engineering</i> , <b>2017</b> , 40, 413-421	3.7	5
151	Bioprocess engineering to produce 9-(nonanoyloxy) nonanoic acid by a recombinant <i>Corynebacterium glutamicum</i> -based biocatalyst. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2017</b> , 44, 1301-1311	4.2	2
150	Increased incorporation of gaseous CO into succinate by <i>Escherichia coli</i> overexpressing carbonic anhydrase and phosphoenolpyruvate carboxylase genes. <i>Journal of Biotechnology</i> , <b>2017</b> , 241, 101-107	3.7	5
149	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> , <b>2017</b> , 46, 350-355	6.3	8
148	Effective suppression of deactivation by utilizing Ni-doped ordered mesoporous alumina-supported catalysts for the production of hydrogen and CO gas mixture from methane. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 24744-24756	6.7	7
147	Molecular bases for differential aging programs between flag and second leaves during grain-filling in rice. <i>Scientific Reports</i> , <b>2017</b> , 7, 8792	4.9	13
146	Engineering <i>Escherichia coli</i> BL21 genome to improve the heptanoic acid tolerance by using CRISPR-Cas9 system. <i>Biotechnology and Bioprocess Engineering</i> , <b>2017</b> , 22, 231-238	3.1	13

145	Deletion of the budBAC operon in <i>Klebsiella pneumoniae</i> to understand the physiological role of 2,3-butanediol biosynthesis. <i>Preparative Biochemistry and Biotechnology</i> , <b>2016</b> , 46, 410-9	2.4	2
144	Eco-design and evaluation for production of 7-aminocephalosporanic acid from carbohydrate wastes discharged after microalgae-based biodiesel production. <i>Journal of Cleaner Production</i> , <b>2016</b> , 133, 511-517	10.3	10
143	Enhanced mass transfer rate of methane in aqueous phase via methyl-functionalized SBA-15. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 215, 154-160	6	16
142	High Production of 2,3-Butanediol (2,3-BD) by <i>Raoultella ornithinolytica</i> B6 via Optimizing Fermentation Conditions and Overexpressing 2,3-BD Synthesis Genes. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165076	3.7	8
141	Selection of Medium Components by Plackett-Burman Design for Cell Growth of a Newly Isolated <i>Methylobacterium</i> sp. WJ4. <i>Korean Chemical Engineering Research</i> , <b>2016</b> , 54, 812-816		
140	. <i>Biotechnology and Bioprocess Engineering</i> , <b>2016</b> , 21, 814-822	3.1	3
139	Production of uracil from methane by a newly isolated <i>Methylomonas</i> sp. SW1. <i>Journal of Biotechnology</i> , <b>2016</b> , 240, 43-47	3.7	2
138	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> , <b>2016</b> , 306, 916-924	14.7	20
137	Gas-liquid mass transfer coefficient of methane in bubble column reactor. <i>Korean Journal of Chemical Engineering</i> , <b>2015</b> , 32, 1060-1063	2.8	22
136	Industrial Production of 2,3-Butanediol from the Engineered <i>Corynebacterium glutamicum</i> . <i>Applied Biochemistry and Biotechnology</i> , <b>2015</b> , 176, 2303-13	3.2	22
135	Inactivation of the virulence factors from 2,3-butanediol-producing <i>Klebsiella pneumoniae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 9427-38	5.7	7
134	A non-pathogenic and optically high concentrated (R,R)-2,3-butanediol biosynthesizing <i>Klebsiella</i> strain. <i>Journal of Biotechnology</i> , <b>2015</b> , 209, 7-13	3.7	9
133	Hydrogen production by steam reforming of liquefied natural gas (LNG) over mesoporous nickel/iron/alumina catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 5869-5877	6.7	18
132	The influence of budA deletion on glucose metabolism related in 2,3-butanediol production by <i>Klebsiella pneumoniae</i> . <i>Enzyme and Microbial Technology</i> , <b>2015</b> , 73-74, 1-8	3.8	4
131	Effect of heterologous expression of genes involved in the elongation cycle of fatty acid synthesis on fatty acid production in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioprocess Engineering</i> , <b>2015</b> , 20, 1-9	3.1	2
130	Biotransformation of oleic acid into 10-ketostearic acid by recombinant <i>Corynebacterium glutamicum</i> -based biocatalyst. <i>Biotechnology Letters</i> , <b>2015</b> , 37, 1101-6	3	8
129	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> , <b>2015</b> , 32, 1377-1380	2.8	7
128	Enhancement of CH <sub>4</sub> -water mass transfer using methyl-modified mesoporous silica nanoparticles. <i>Korean Journal of Chemical Engineering</i> , <b>2015</b> , 32, 1744-1748	2.8	11

127	Characterization of Phosphoenolpyruvate Carboxylase from <i>Oceanimonas smirnovii</i> in <i>Escherichia coli</i> . <i>Applied Biochemistry and Biotechnology</i> , <b>2015</b> , 177, 217-25	3.2	3
126	Comparative whole genome transcriptome and metabolome analyses of five <i>Klebsiella pneumoniae</i> strains. <i>Bioprocess and Biosystems Engineering</i> , <b>2015</b> , 38, 2201-19	3.7	2
125	Microbial synthesis gas utilization and ways to resolve kinetic and mass-transfer limitations. <i>Bioresource Technology</i> , <b>2015</b> , 177, 361-74	11	81
124	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> , <b>2015</b> , 8, 106	7.8	25
123	High production of 2,3-butanediol from biodiesel-derived crude glycerol by metabolically engineered <i>Klebsiella oxytoca</i> M1. <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 146	7.8	67
122	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> , <b>2015</b> , 10, e0138109	3.7	41
121	Adding value to plant oils and fatty acids: Biological transformation of fatty acids into Hydroxycarboxylic, $\alpha$ -dicarboxylic, and $\beta$ -aminocarboxylic acids. <i>Journal of Biotechnology</i> , <b>2015</b> , 216, 158-66	3.7	44
120	Cyclohexanone-induced stress metabolism of <i>Escherichia coli</i> and <i>Corynebacterium glutamicum</i> . <i>Biotechnology and Bioprocess Engineering</i> , <b>2015</b> , 20, 1088-1098	3.1	5
119	Characterization of negative regulatory genes for the biosynthesis of rapamycin in <i>Streptomyces rapamycinicus</i> and its application for improved production. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2015</b> , 42, 125-35	4.2	19
118	Complete genome sequence of <i>Klebsiella oxytoca</i> M1, isolated from Manripo area of South Korea. <i>Journal of Biotechnology</i> , <b>2015</b> , 198, 1-2	3.7	2
117	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> , <b>2015</b> , 112, 889-95	4.9	21
116	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> , <b>2015</b> , 25, 452-8	3.3	14
115	Increased 2,3-butanediol production by changing codon usages in <i>Escherichia coli</i> . <i>Biotechnology and Applied Biochemistry</i> , <b>2014</b> , 61, 535-40	2.8	8
114	Optimization of hollow fiber membrane cleaning process for microalgae harvest. <i>Korean Journal of Chemical Engineering</i> , <b>2014</b> , 31, 949-955	2.8	9
113	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> , <b>2014</b> , 169, 637-643	11	43
112	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> , <b>2014</b> , 67, 8-16 <sup>3.8</sup>	3.8	8
111	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> , <b>2014</b> , 80, 6195-203	4.8	46
110	Transition metal-doped TiO <sub>2</sub> nanowire catalysts for the oxidative coupling of methane. <i>Catalysis Communications</i> , <b>2014</b> , 50, 54-58	3.2	33

109	Harvesting of microalgae using flocculation combined with dissolved air flotation. <i>Biotechnology and Bioprocess Engineering</i> , <b>2014</b> , 19, 143-149	3.1	42
108	Production of 9-hydroxyundec-9-enoic acid and n-heptanoic acid from ricinoleic acid by recombinant <i>Escherichia coli</i> -based biocatalyst. <i>Process Biochemistry</i> , <b>2014</b> , 49, 617-622	4.8	41
107	Engineering the substrate-binding domain of an esterase enhances its hydrolytic activity toward fatty acid esters. <i>Process Biochemistry</i> , <b>2014</b> , 49, 2101-2106	4.8	10
106	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> , <b>2014</b> , 148-149, 269-280	21.8	37
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> , <b>2014</b> , 37, 343-53	3.7	12
104	High activity and stability of codon-optimized phosphoenolpyruvate carboxylase from <i>Photobacterium profundum</i> SS9 at low temperatures and its application for in vitro production of oxaloacetate. <i>Bioprocess and Biosystems Engineering</i> , <b>2014</b> , 37, 331-5	3.7	3
103	Redistribution of carbon flux toward 2,3-butanediol production in <i>Klebsiella pneumoniae</i> by metabolic engineering. <i>PLoS ONE</i> , <b>2014</b> , 9, e105322	3.7	15
102	Engineered <i>Enterobacter aerogenes</i> for efficient utilization of sugarcane molasses in 2,3-butanediol production. <i>Bioresource Technology</i> , <b>2013</b> , 139, 21-7	11	41
101	Selective production of 2,3-butanediol and acetoin by a newly isolated bacterium <i>Klebsiella oxytoca</i> M1. <i>Applied Biochemistry and Biotechnology</i> , <b>2013</b> , 170, 1922-33	3.2	23
100	Correlations between FAS elongation cycle genes expression and fatty acid production for improvement of long-chain fatty acids in <i>Escherichia coli</i> . <i>Applied Biochemistry and Biotechnology</i> , <b>2013</b> , 169, 1606-19	3.2	8
99	Improvement of free fatty acid production in <i>Escherichia coli</i> using codon-optimized <i>Streptococcus pyogenes</i> acyl-ACP thioesterase. <i>Bioprocess and Biosystems Engineering</i> , <b>2013</b> , 36, 1519-25	3.7	6
98	Enhanced activity of meso-secondary alcohol dehydrogenase from <i>Klebsiella</i> species by codon optimization. <i>Bioprocess and Biosystems Engineering</i> , <b>2013</b> , 36, 1005-10	3.7	1
97	Effect of pH on the metabolic flux of <i>Klebsiella oxytoca</i> producing 2,3-butanediol in continuous cultures at different dilution rates. <i>Bioprocess and Biosystems Engineering</i> , <b>2013</b> , 36, 845-55	3.7	4
96	Expression, reconstruction and characterization of codon-optimized carbonic anhydrase from <i>Hahella chejuensis</i> for CO <sub>2</sub> sequestration application. <i>Bioprocess and Biosystems Engineering</i> , <b>2013</b> , 36, 375-81	3.7	23
95	Removal of pathogenic factors from 2,3-butanediol-producing <i>Klebsiella</i> species by inactivating virulence-related wabG gene. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 1997-2007	5.7	43
94	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> , <b>2013</b> , 380, 28-33		11
93	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> , <b>2013</b> , 36, 127-31	3.7	13
92	Observation of 2,3-butanediol biosynthesis in Lys regulator mutated <i>Klebsiella pneumoniae</i> at gene transcription level. <i>Journal of Biotechnology</i> , <b>2013</b> , 168, 520-6	3.7	13

91	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> , <b>2013</b> , 169, 462-76	3.2	11
90	Microbial production of 2,3 butanediol from seaweed hydrolysate using metabolically engineered <i>Escherichia coli</i> . <i>Bioresource Technology</i> , <b>2013</b> , 136, 329-36	11	63
89	Enzymatic coproduction of biodiesel and glycerol carbonate from soybean oil in solvent-free system. <i>Enzyme and Microbial Technology</i> , <b>2013</b> , 53, 154-8	3.8	29
88	Carbonic anhydrase: Its biocatalytic mechanisms and functional properties for efficient CO <sub>2</sub> capture process development. <i>Engineering in Life Sciences</i> , <b>2013</b> , 13, 422-431	3.4	31
87	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> , <b>2013</b> , 1,		14
86	Recent insights in the removal of <i>Klebsiella</i> pathogenicity factors for the industrial production of 2,3-butanediol. <i>Journal of Microbiology and Biotechnology</i> , <b>2013</b> , 23, 885-96	3.3	25
85	An analysis of the concentration change of intermediate metabolites by gene manipulation in fatty acid biosynthesis. <i>Enzyme and Microbial Technology</i> , <b>2012</b> , 51, 95-9	3.8	2
84	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> , <b>2012</b> , 47, 1423-1427 <sup>4.8</sup>		14
83	Production of 2,3-butanediol in <i>Saccharomyces cerevisiae</i> by in silico aided metabolic engineering. <i>Microbial Cell Factories</i> , <b>2012</b> , 11, 68	6.4	109
82	Enzymatic production of glycerol carbonate from by-product after biodiesel manufacturing process. <i>Enzyme and Microbial Technology</i> , <b>2012</b> , 51, 143-7	3.8	51
81	Expression and characterization of codon-optimized carbonic anhydrase from <i>Dunaliella</i> species for CO <sub>2</sub> sequestration application. <i>Applied Biochemistry and Biotechnology</i> , <b>2012</b> , 167, 2341-56	3.2	22
80	Expression of codon-optimized phosphoenolpyruvate carboxylase gene from <i>Glaciecola</i> sp. HTCC2999 in <i>Escherichia coli</i> and its application for C <sub>4</sub> chemical production. <i>Applied Biochemistry and Biotechnology</i> , <b>2012</b> , 167, 1845-53	3.2	7
79	Optimization of <i>Pseudoalteromonas</i> sp. JYBCL 1 culture conditions, medium composition and extracellular $\alpha$ -glucosidase activity. <i>Biotechnology and Bioprocess Engineering</i> , <b>2012</b> , 17, 937-945	3.1	2
78	Process design and evaluation of value-added chemicals production from biomass. <i>Biotechnology and Bioprocess Engineering</i> , <b>2012</b> , 17, 1055-1061	3.1	14
77	Toxic effects of titanium dioxide nanoparticles on microbial activity and metabolic flux. <i>Biotechnology and Bioprocess Engineering</i> , <b>2012</b> , 17, 276-282	3.1	17
76	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> , <b>2012</b> , 166, 1801-13	3.2	30
75	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> . <i>Applied Biochemistry and Biotechnology</i> , <b>2012</b> , 167, 24-38	3.2	8
74	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> , <b>2012</b> , 167, 425-38	3.2	24



73	Deletion of lactate dehydrogenase in <i>Enterobacter aerogenes</i> to enhance 2,3-butanediol production. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 95, 461-9	5.7	83
72	Complete genome sequence of the 2,3-butanediol-producing <i>Klebsiella pneumoniae</i> strain KCTC 2242. <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 2736-7	3.5	40
71	Complete genome sequence of <i>Klebsiella oxytoca</i> KCTC 1686, used in production of 2,3-butanediol. <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 2371-2	3.5	25
70	Complete genome sequence of <i>Enterobacter aerogenes</i> KCTC 2190. <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 2373-4	3.5	40
69	Identification of factors regulating <i>Escherichia coli</i> 2,3-butanediol production by continuous culture and metabolic flux analysis. <i>Journal of Microbiology and Biotechnology</i> , <b>2012</b> , 22, 659-67	3.3	8
68	Improved production of long-chain fatty acid in <i>Escherichia coli</i> by an engineering elongation cycle during fatty acid synthesis (FAS) through genetic manipulation. <i>Journal of Microbiology and Biotechnology</i> , <b>2012</b> , 22, 990-9	3.3	25
67	Enhanced 2,3-butanediol production in recombinant <i>Klebsiella pneumoniae</i> via overexpression of synthesis-related genes. <i>Journal of Microbiology and Biotechnology</i> , <b>2012</b> , 22, 1258-63	3.3	42
66	Converting carbohydrates extracted from marine algae into ethanol using various ethanolic <i>Escherichia coli</i> strains. <i>Applied Biochemistry and Biotechnology</i> , <b>2011</b> , 164, 878-88	3.2	96
65	Parameter estimation and dynamic control analysis of central carbon metabolism in <i>Escherichia coli</i> . <i>Biotechnology and Bioprocess Engineering</i> , <b>2011</b> , 16, 216-228	3.1	8
64	Tolerance of <i>Saccharomyces cerevisiae</i> K35 to lignocellulose-derived inhibitory compounds. <i>Biotechnology and Bioprocess Engineering</i> , <b>2011</b> , 16, 755-760	3.1	36
63	Improvement of fatty acid biosynthesis by engineered recombinant <i>Escherichia coli</i> . <i>Biotechnology and Bioprocess Engineering</i> , <b>2011</b> , 16, 706-713	3.1	20
62	Development of <i>Escherichia coli</i> MG1655 strains to produce long chain fatty acids by engineering fatty acid synthesis (FAS) metabolism. <i>Enzyme and Microbial Technology</i> , <b>2011</b> , 49, 44-51	3.8	26
61	Increased expression, folding and enzyme reaction rate of recombinant human insulin by selecting appropriate leader peptide. <i>Journal of Biotechnology</i> , <b>2011</b> , 151, 350-6	3.7	14
60	Dynamic modeling of lactic acid fermentation metabolism with <i>Lactococcus lactis</i> . <i>Journal of Microbiology and Biotechnology</i> , <b>2011</b> , 21, 162-9	3.3	16
59	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> , <b>2011</b> , 21, 818-21	3.3	8
58	Production of 1,2-propanediol from glycerol in <i>Saccharomyces cerevisiae</i> . <i>Journal of Microbiology and Biotechnology</i> , <b>2011</b> , 21, 846-53	3.3	49
57	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> , <b>2011</b> , 32, 524-530	1.2	14
56	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> , <b>2010</b> , 310, 39-47	2.9	32

55	Increased ethanol resistance in Ethanolic Escherichia coli by Insertion of heat-shock genes BEM1 and SOD2 from Saccharomyces cerevisiae. <i>Biotechnology and Bioprocess Engineering</i> , <b>2010</b> , 15, 770-776	3.1	7
54	Strain development and medium optimization for fumaric acid production. <i>Biotechnology and Bioprocess Engineering</i> , <b>2010</b> , 15, 761-769	3.1	17
53	Computational identification of altered metabolism using gene expression and metabolic pathways. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 103, 835-43	4.9	10
52	Production of hydrogen from marine macro-algae biomass using anaerobic sewage sludge microflora. <i>Biotechnology and Bioprocess Engineering</i> , <b>2009</b> , 14, 307-315	3.1	70
51	Eco-toxicity of commercial silver nanopowders to bacterial and yeast strains. <i>Biotechnology and Bioprocess Engineering</i> , <b>2009</b> , 14, 490-495	3.1	42
50	Small-angle neutron scattering study of the miscibility of metallocene-catalyzed octene linear low-density polyethylene and low-density polyethylene blends. <i>Journal of Applied Crystallography</i> , <b>2009</b> , 42, 161-168	3.8	11
49	Cellulosic alcoholic fermentation using recombinant Saccharomyces cerevisiae engineered for the production of Clostridium cellulovorans endoglucanase and Saccharomycopsis fibuligera beta-glucosidase. <i>FEMS Microbiology Letters</i> , <b>2009</b> , 301, 130-6	2.9	46
48	Development of a Saccharomyces cerevisiae strain for the production of 1,2-propanediol by gene manipulation. <i>Enzyme and Microbial Technology</i> , <b>2009</b> , 45, 42-47	3.8	11
47	Evaluation of the toxic impact of silver nanoparticles on Japanese medaka (Oryzias latipes). <i>Aquatic Toxicology</i> , <b>2009</b> , 94, 320-7	5.1	227
46	Optimization and scale-up of succinic acid production by Mannheimia succiniciproducens LPK7. <i>Journal of Microbiology and Biotechnology</i> , <b>2009</b> , 19, 167-71	3.3	27
45	Hydrothermal acid pretreatment of Chlamydomonas reinhardtii biomass for ethanol production. <i>Journal of Microbiology and Biotechnology</i> , <b>2009</b> , 19, 161-6	3.3	153
44	Identification and functional analysis of light-responsive unique genes and gene family members in rice. <i>PLoS Genetics</i> , <b>2008</b> , 4, e1000164	6	59
43	Optimization and morphology for decolorization of reactive black 5 by Funalia trogii. <i>Enzyme and Microbial Technology</i> , <b>2007</b> , 40, 1758-1764	3.8	32
42	Biodegradation and biosorption for decolorization of synthetic dyes by Funalia trogii. <i>Biochemical Engineering Journal</i> , <b>2007</b> , 36, 59-65	4.2	121
41	Mutations in the rice liguleless gene result in a complete loss of the auricle, ligule, and laminar joint. <i>Plant Molecular Biology</i> , <b>2007</b> , 65, 487-99	4.6	89
40	The rice heterochronic gene SUPERNUMERARY BRACT regulates the transition from spikelet meristem to floral meristem. <i>Plant Journal</i> , <b>2007</b> , 49, 64-78	6.9	128
39	Decolorization of acid black 52 by fungal immobilization. <i>Enzyme and Microbial Technology</i> , <b>2006</b> , 39, 371-374	3.8	40
38	Metabolic engineering of Escherichia coli for enhanced production of succinic acid, based on genome comparison and in silico gene knockout simulation. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 7880-7	4.8	255

37	An array of Au nanoparticles on the nanopatterned Si(100). <i>Microelectronic Engineering</i> , <b>2005</b> , 81, 389-393	3.5	8
36	In silico analysis of lactic acid secretion metabolism through the top-down approach: Effect of grouping in enzyme kinetics. <i>Biotechnology and Bioprocess Engineering</i> , <b>2005</b> , 10, 462-469	3.1	3
35	Preparation of high molecular weight poly(methyl methacrylate) with high yield by room temperature suspension polymerization of methyl methacrylate. <i>Fibers and Polymers</i> , <b>2004</b> , 5, 75-81	2	9
34	Room temperature polymerization of N-vinylcarbazole in tetrahydrofuran. <i>Fibers and Polymers</i> , <b>2004</b> , 5, 89-94	2	2
33	In silico analysis of lactate producing metabolic network in <i>Lactococcus lactis</i> . <i>Enzyme and Microbial Technology</i> , <b>2004</b> , 35, 654-662	3.8	5
32	Regulatory analysis of amino acid synthesis pathway in <i>Escherichia coli</i> : aspartate family. <i>Enzyme and Microbial Technology</i> , <b>2004</b> , 35, 694-706	3.8	10
31	Transgene structures in T-DNA-inserted rice plants. <i>Plant Molecular Biology</i> , <b>2003</b> , 52, 761-73	4.6	116
30	Effect of the molecular weight of poly(vinyl alcohol) on the water stability of a syndiotactic poly(vinyl alcohol)/iodine complex film. <i>Colloid and Polymer Science</i> , <b>2003</b> , 281, 416-422	2.4	23
29	Bioremediation of 2,4,6-trinitrotoluene contaminated soil in slurry and column reactors. <i>Journal of Bioscience and Bioengineering</i> , <b>2003</b> , 96, 429-33	3.3	21
28	Effects of various pretreatments for enhanced anaerobic digestion with waste activated sludge. <i>Journal of Bioscience and Bioengineering</i> , <b>2003</b> , 95, 271-5	3.3	505
27	COD reduction and decolorization of textile effluent using a combined process. <i>Journal of Bioscience and Bioengineering</i> , <b>2003</b> , 95, 102-5	3.3	67
26	Optimization for biodegradation of 2,4,6-trinitrotoluene (TNT) by <i>Pseudomonas putida</i> . <i>Journal of Bioscience and Bioengineering</i> , <b>2003</b> , 95, 567-71	3.3	40
25	Effect of iodine absorption on the characteristics of syndiotacticity-rich high molecular weight poly(vinyl alcohol) microfibril. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 87, 1519-1524	2.9	8
24	Synthesis of syndiotacticity-rich high molecular weight poly(vinyl alcohol) by suspension polymerization of vinyl pivalate and saponification. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 88, 832-839 <sup>2.9</sup>	2.9	4
23	Preparation of water-soluble syndiotacticity-rich high molecular weight poly(vinyl alcohol) microfibrillar fibers using copolymerization of vinyl pivalate and vinyl acetate and saponification. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 88, 1482-1487	2.9	5
22	Role of the stereosequences of poly(vinyl alcohol) in the rheological properties of syndiotacticity-rich poly(vinyl alcohol)/water solutions. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 88, 1858-1863 <sup>2.9</sup>	2.9	1863 <sup>9</sup>
21	Effect of the copolycondensation temperature on the reactivities of bis(3-hydroxypropyl)terephthalate and bis(2-hydroxyethyl)terephthalate. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 89, 1890-1895	2.9	1
20	Synthesis of water-soluble syndiotacticity-rich low molecular weight poly(vinyl alcohol) by solution copolymerization of vinyl pivalate/vinyl acetate in tetrahydrofuran and saponification. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 90, 227-232	2.9	5

19	CvADH1, a member of short-chain alcohol dehydrogenase family, is inducible by gibberellin and sucrose in developing watermelon seeds. <i>Plant and Cell Physiology</i> , <b>2003</b> , 44, 85-92	4.9	4
18	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> , <b>2003</b> , 44, 1403-11	4.9	89
17	Biokinetic parameter estimation for degradation of 2,4,6-trinitrotoluene (TNT) with <i>Pseudomonas putida</i> KP-T201. <i>Journal of Bioscience and Bioengineering</i> , <b>2002</b> , 94, 57-61	3.3	25
16	Low-temperature photoinitiation solution polymerization behavior of N-vinylcarbazole in tetrahydrofuran. <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 86, 3667-3672	2.9	3
15	Pilot scale treatment of textile wastewater by combined process (fluidized biofilm process-chemical coagulation-electrochemical oxidation). <i>Water Research</i> , <b>2002</b> , 36, 3979-88	12.5	96
14	Biokinetic parameter estimation for degradation of 2,4,6-trinitrotoluene (TNT) with <i>Pseudomonas putida</i> KP-T201. <i>Journal of Bioscience and Bioengineering</i> , <b>2002</b> , 94, 57-61	3.3	7
13	Expressed sequence tags and mRNA expression levels of tagged cDNAs from watermelon anthers and developing seeds <b>2001</b> , 44, 172-177		3
12	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> , <b>2001</b> , 80, 1003-1012	2.9	21
11	Role of initial polymer concentration in the physical properties of zone-drawn biodegradable poly(butylene adipate) film. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 82, 1-7	2.9	3
10	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> , <b>2001</b> , 82, 1897-1902	2.9	14
9	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> , <b>2000</b> , 77, 123-134	2.9	19
8	T-DNA insertional mutagenesis for functional genomics in rice. <i>Plant Journal</i> , <b>2000</b> , 22, 561-70	6.9	574
7	A high performance liquid chromatography method to determine monomer reactivity ratios in copolycondensation of bis(4-hydroxybutyl) terephthalate and bis(2-hydroxyethyl) terephthalate. <i>Polymer Testing</i> , <b>2000</b> , 19, 299-309	4.5	2
6	Effects of polymer concentration and zone drawing on the structure and properties of biodegradable poly(butylene succinate) film. <i>Polymer</i> , <b>2000</b> , 41, 9055-9062	3.9	28
5	Effect of Low-Temperature Solution Polymerization Conditions of Acrylonitrile on the Molecular Characteristics of Polyacrylonitrile. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2000</b> , 46, 423-434	3	3
4	Solution polymerization behavior of acrylonitrile by moderate temperature azoinitiator. <i>European Polymer Journal</i> , <b>1999</b> , 35, 647-653	5.2	10
3	Effect of copolycondensation temperature on the reactivity ratios of bis(4-hydroxybutyl) terephthalate and bis(2-hydroxyethyl) terephthalate. <i>Polymer Bulletin</i> , <b>1999</b> , 42, 9-16	2.4	7
2	Bulk polymerization of vinyl pivalate using low-temperature azoinitiator and saponification for the preparation of poly(vinyl alcohol) microfibrils. <i>Angewandte Makromolekulare Chemie</i> , <b>1999</b> , 271, 46-52		13

- 1 Suppressed acid formation by cofeeding of glucose and citrate in *Bacillus* cultures: emergence of pyruvate kinase as a potential metabolic engineering site. *Biotechnology Progress*, **1995**, 11, 380-5 2.8 33