

Youngsoon Um

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78
papers

2,556
citations

32
h-index

48
g-index

79
ext. papers

2,930
ext. citations

5.7
avg, IF

5.24
L-index

#	Paper	IF	Citations
78	Continuous Butanol Production Using Suspended and Immobilized <i>Clostridium beijerinckii</i> NCIMB 8052 with Supplementary Butyrate. <i>Energy & Fuels</i> , 2008 , 22, 3459-3464	4.1	122
77	Detoxification of model phenolic compounds in lignocellulosic hydrolysates with peroxidase for butanol production from <i>Clostridium beijerinckii</i> . <i>Applied Microbiology and Biotechnology</i> , 2009 , 83, 1035-1043	5.7	110
76	Electricity-driven metabolic shift through direct electron uptake by electroactive heterotroph <i>Clostridium pasteurianum</i> . <i>Scientific Reports</i> , 2014 , 4, 6961	4.9	109
75	Butyrate production enhancement by <i>Clostridium tyrobutyricum</i> using electron mediators and a cathodic electron donor. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 2494-502	4.9	104
74	Microbial fed-batch production of 1,3-propanediol using raw glycerol with suspended and immobilized <i>Klebsiella pneumoniae</i> . <i>Applied Biochemistry and Biotechnology</i> , 2010 , 161, 491-501	3.2	89
73	Pretreatment of rice straw with combined process using dilute sulfuric acid and aqueous ammonia. <i>Biotechnology for Biofuels</i> , 2013 , 6, 109	7.8	85
72	Butanol production from thin stillage using <i>Clostridium pasteurianum</i> . <i>Bioresource Technology</i> , 2011 , 102, 4934-7	11	82
71	Ethanol production from lignocellulosic hydrolysates using engineered <i>Saccharomyces cerevisiae</i> harboring xylose isomerase-based pathway. <i>Bioresource Technology</i> , 2016 , 209, 290-6	11	75
70	Effect of biodiesel-derived raw glycerol on 1,3-propanediol production by different microorganisms. <i>Applied Biochemistry and Biotechnology</i> , 2010 , 161, 502-10	3.2	73
69	Optimization of medium compositions favoring butanol and 1,3-propanediol production from glycerol by <i>Clostridium pasteurianum</i> . <i>Bioresource Technology</i> , 2011 , 102, 10561-8	11	72
68	In situ biphasic extractive fermentation for hexanoic acid production from sucrose by <i>Megasphaera elsdenii</i> NCIMB 702410. <i>Applied Biochemistry and Biotechnology</i> , 2013 , 171, 1094-107	3.2	71
67	Production of hexanoic acid from D-galactitol by a newly isolated <i>Clostridium</i> sp. BS-1. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 1161-7	5.7	69
66	A dye-decolorizing peroxidase from <i>Bacillus subtilis</i> exhibiting substrate-dependent optimum temperature for dyes and Æther lignin dimer. <i>Scientific Reports</i> , 2015 , 5, 8245	4.9	68
65	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	7.8	67
64	Polycyclic aromatic hydrocarbon (PAH) degradation coupled to methanogenesis. <i>Biotechnology Letters</i> , 2006 , 28, 425-30	3	66
63	Photosynthetic conversion of CO ₂ to farnesyl diphosphate-derived phytochemicals (amorpha-4,11-diene and squalene) by engineered cyanobacteria. <i>Biotechnology for Biofuels</i> , 2016 , 9, 202	7.8	57
62	Electrochemical detoxification of phenolic compounds in lignocellulosic hydrolysate for <i>Clostridium</i> fermentation. <i>Bioresource Technology</i> , 2015 , 187, 228-234	11	54

61	Microbial Synthesis of Myrcene by Metabolically Engineered Escherichia coli. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 4606-12	5.7	53
60	Engineering of a modular and synthetic phosphoketolase pathway for photosynthetic production of acetone from CO ₂ in <i>Synechococcus elongatus</i> PCC 7942 under light and aerobic condition. <i>Plant Biotechnology Journal</i> , 2016 , 14, 1768-76	11.6	53
59	Synthetic biology platform of CoryneBrick vectors for gene expression in <i>Corynebacterium glutamicum</i> and its application to xylose utilization. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 5991-6002	5.7	47
58	Development of SyneBrick Vectors As a Synthetic Biology Platform for Gene Expression in PCC 7942. <i>Frontiers in Plant Science</i> , 2017 , 8, 293	6.2	44
57	Production of medium-chain carboxylic acids by <i>Megasphaera</i> sp. MH with supplemental electron acceptors. <i>Biotechnology for Biofuels</i> , 2016 , 9, 129	7.8	44
56	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	3.7	41
55	Modular pathway engineering of <i>Corynebacterium glutamicum</i> to improve xylose utilization and succinate production. <i>Journal of Biotechnology</i> , 2017 , 258, 69-78	3.7	39
54	Biomass, strain engineering, and fermentation processes for butanol production by solventogenic clostridia. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 8255-71	5.7	39
53	Improvement of Squalene Production from CO in <i>Synechococcus elongatus</i> PCC 7942 by Metabolic Engineering and Scalable Production in a Photobioreactor. <i>ACS Synthetic Biology</i> , 2017 , 6, 1289-1295	5.7	38
52	Improved simultaneous co-fermentation of glucose and xylose by for efficient lignocellulosic biorefinery. <i>Biotechnology for Biofuels</i> , 2020 , 13, 12	7.8	37
51	Molecular characterization of polycyclic aromatic hydrocarbon (PAH)-degrading methanogenic communities. <i>Biotechnology Progress</i> , 2005 , 21, 682-8	2.8	35
50	RNA-guided single/double gene repressions in <i>Corynebacterium glutamicum</i> using an efficient CRISPR interference and its application to industrial strain. <i>Microbial Cell Factories</i> , 2018 , 17, 4	6.4	34
49	Succinate production from CO ₂ -grown microalgal biomass as carbon source using engineered <i>Corynebacterium glutamicum</i> through consolidated bioprocessing. <i>Scientific Reports</i> , 2014 , 4, 5819	4.9	33
48	Improved bioconversion of lignocellulosic biomass by <i>Saccharomyces cerevisiae</i> engineered for tolerance to acetic acid. <i>GCB Bioenergy</i> , 2020 , 12, 90-100	5.6	33
47	Direct Conversion of CO to Farnesene Using Metabolically Engineered <i>Synechococcus elongatus</i> PCC 7942. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 10424-10428	5.7	32
46	Adaptive evolution and metabolic engineering of a cellobiose- and xylose- negative <i>Corynebacterium glutamicum</i> that co-utilizes cellobiose and xylose. <i>Microbial Cell Factories</i> , 2016 , 15, 20	6.4	29
45	Photosynthetic CO Conversion to Fatty Acid Ethyl Esters (FAEEs) Using Engineered Cyanobacteria. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 1087-1092	5.7	27
44	Largely enhanced bioethanol production through the combined use of lignin-modified sugarcane and xylose fermenting yeast strain. <i>Bioresource Technology</i> , 2018 , 256, 312-320	11	26

43	Pretreatment of macroalgae for volatile fatty acid production. <i>Bioresource Technology</i> , 2013 , 146, 754-757	25
42	Complete genome sequence of <i>Klebsiella oxytoca</i> KCTC 1686, used in production of 2,3-butanediol. <i>Journal of Bacteriology</i> , 2012 , 194, 2371-2	3.5 25
41	Genomic and phenotypic characterization of a refactored xylose-utilizing strain for lignocellulosic biofuel production. <i>Biotechnology for Biofuels</i> , 2018 , 11, 268	7.8 24
40	Engineering of <i>Corynebacterium glutamicum</i> for growth and succinate production from levoglucosan, a pyrolytic sugar substrate. <i>FEMS Microbiology Letters</i> , 2015 , 362,	2.9 23
39	Selective production of 2,3-butanediol and acetoin by a newly isolated bacterium <i>Klebsiella oxytoca</i> M1. <i>Applied Biochemistry and Biotechnology</i> , 2013 , 170, 1922-33	3.2 23
38	Butyric acid production from softwood hydrolysate by acetate-consuming <i>Clostridium</i> sp. S1 with high butyric acid yield and selectivity. <i>Bioresource Technology</i> , 2016 , 218, 1208-14	11 23
37	Conversion of levulinic acid to 2-butanone by acetoacetate decarboxylase from <i>Clostridium acetobutylicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 5627-34	5.7 22
36	Transcriptome landscape of <i>Synechococcus elongatus</i> PCC 7942 for nitrogen starvation responses using RNA-seq. <i>Scientific Reports</i> , 2016 , 6, 30584	4.9 22
35	High-yield lipid production from lignocellulosic biomass using engineered xylose-utilizing <i>Yarrowia lipolytica</i> . <i>GCB Bioenergy</i> , 2020 , 12, 670-679	5.6 21
34	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> , 2017 , 101, 2821-2830	5.7 20
33	Complete genome sequence of <i>Bacillus</i> sp. 275, producing extracellular cellulolytic, xylanolytic and ligninolytic enzymes. <i>Journal of Biotechnology</i> , 2017 , 254, 59-62	3.7 20
32	Effective isopropanol-butanol (IB) fermentation with high butanol content using a newly isolated sp. A1424. <i>Biotechnology for Biofuels</i> , 2016 , 9, 230	7.8 20
31	In situ detoxification of lignocellulosic hydrolysate using a surfactant for butyric acid production by <i>Clostridium tyrobutyricum</i> ATCC 25755. <i>Process Biochemistry</i> , 2015 , 50, 630-635	4.8 18
30	Effect of manganese ions on ethanol fermentation by xylose isomerase expressing <i>Saccharomyces cerevisiae</i> under acetic acid stress. <i>Bioresource Technology</i> , 2016 , 222, 422-430	11 16
29	Rapid identification of unknown carboxyl esterase activity in <i>Corynebacterium glutamicum</i> using RNA-guided CRISPR interference. <i>Enzyme and Microbial Technology</i> , 2018 , 114, 63-68	3.8 14
28	Process design and evaluation of value-added chemicals production from biomass. <i>Biotechnology and Bioprocess Engineering</i> , 2012 , 17, 1055-1061	3.1 14
27	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,	14
26	Enhanced butyric acid production using mixed biomass of brown algae and rice straw by <i>Clostridium tyrobutyricum</i> ATCC25755. <i>Bioresource Technology</i> , 2019 , 273, 446-453	11 14

25	Transcriptomic analysis of <i>Corynebacterium glutamicum</i> in the response to the toxicity of furfural present in lignocellulosic hydrolysates. <i>Process Biochemistry</i> , 2015 , 50, 347-356	4.8	12
24	<i>Asticcacaulis solisilvae</i> sp. nov., isolated from forest soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013 , 63, 3829-3834	2.2	11
23	Extreme furfural tolerance of a soil bacterium <i>Enterobacter cloacae</i> GGT036. <i>Journal of Biotechnology</i> , 2015 , 193, 11-3	3.7	10
22	Perspectives for biocatalytic lignin utilization: cleaving 4--5 and C-C bonds in dimeric lignin model compounds catalyzed by a promiscuous activity of tyrosinase. <i>Biotechnology for Biofuels</i> , 2017 , 10, 212	7.8	10
21	Aerobic and anaerobic cellulose utilization by <i>Paenibacillus</i> sp. CAA11 and enhancement of its cellulolytic ability by expressing a heterologous endoglucanase. <i>Journal of Biotechnology</i> , 2018 , 268, 21-27	3.7	10
20	Butyric acid production from red algae by a newly isolated <i>Clostridium</i> sp. S1. <i>Biotechnology Letters</i> , 2015 , 37, 1837-44	3	9
19	Influences of Media Compositions on Characteristics of Isolated Bacteria Exhibiting Lignocellulolytic Activities from Various Environmental Sites. <i>Applied Biochemistry and Biotechnology</i> , 2017 , 183, 931-942	3.2	8
18	Analysis of the Microbial Community in an Acidic Hollow-Fiber Membrane Biofilm Reactor (HF-MBFR) Used for the Biological Conversion of Carbon Dioxide to Methane. <i>PLoS ONE</i> , 2015 , 10, e0144999	3.7	8
17	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> , 2016 , 11, e0165076	3.7	8
16	Engineering of <i>Corynebacterium glutamicum</i> to utilize methyl acetate, a potential feedstock derived by carbonylation of methanol with CO. <i>Journal of Biotechnology</i> , 2016 , 224, 47-50	3.7	7
15	Enhancing Fatty Acid Production of <i>Saccharomyces cerevisiae</i> as an Animal Feed Supplement. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 11029-11035	5.7	7
14	Butyric acid production with high selectivity coupled with acetic acid consumption in sugar-glycerol mixture fermentation by <i>Clostridium tyrobutyricum</i> ATCC25755. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 75, 44-51	6.3	7
13	Intracellular metabolite profiling and the evaluation of metabolite extraction solvents for <i>Clostridium carboxidivorans</i> fermenting carbon monoxide. <i>Process Biochemistry</i> , 2020 , 89, 20-28	4.8	6
12	sp. nov., isolated from forest soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016 , 66, 1260-1267	2.2	5
11	Complete genome sequence of <i>Enterobacter cloacae</i> GGT036: a furfural tolerant soil bacterium. <i>Journal of Biotechnology</i> , 2015 , 193, 43-4	3.7	4
10	A simple and effective plating method to screen polycyclic aromatic hydrocarbon-degrading bacteria under various redox conditions. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 291-7	5.7	4
9	Effect of manganese peroxidase on the decomposition of cellulosic components: Direct cellulolytic activity and synergistic effect with cellulase. <i>Bioresource Technology</i> , 2022 , 343, 126138	11	3
8	Improved 2,3-butanediol yield and productivity from lignocellulose biomass hydrolysate in metabolically engineered <i>Enterobacter aerogenes</i> . <i>Bioresource Technology</i> , 2020 , 309, 123386	11	3

7	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> , 2016 , 46, 410-9	2.4	2
6	Complete genome sequence of <i>Klebsiella oxytoca</i> M1, isolated from Manripo area of South Korea. <i>Journal of Biotechnology</i> , 2015 , 198, 1-2	3.7	2
5	Complete Genome Sequence of <i>Paenibacillus</i> sp. CAA11: A Promising Microbial Host for Lignocellulosic Biorefinery with Consolidated Processing. <i>Current Microbiology</i> , 2019 , 76, 732-737	2.4	1
4	Biotechnological Development for the Production of 1,3-Propanediol and 2,3-Butanediol 2013 , 399-414		1
3	Characterization of a Novel Acetogen <i>Clostridium</i> sp. JS66 for Production of Acids and Alcohols: Focusing on Hexanoic Acid Production from Syngas. <i>Biotechnology and Bioprocess Engineering</i> , 2022 , 27, 89	3.1	1
2	Production of Hexanol as the Main Product Through Syngas Fermentation by P7.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 850370	5.8	1
1	Glucose/Xylose Co-Fermenting Increases the Production of Acetyl-CoA Derived n-Butanol From Lignocellulosic Biomass.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 826787	5.8	