

# Youngsoon Um

## List of Publications by Citations

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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 &amp; Fuels</i> , <b>2008</b> , 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> , <b>2009</b> , 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> , <b>2014</b> , 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> , <b>2012</b> , 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> , <b>2010</b> , 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> , <b>2013</b> , 6, 109  | 7.8 | 85        |
| 72 | Butanol production from thin stillage using <i>Clostridium pasteurianum</i> . <i>Bioresource Technology</i> , <b>2011</b> , 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> , <b>2016</b> , 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> , <b>2010</b> , 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> , <b>2011</b> , 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> , <b>2013</b> , 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> , <b>2010</b> , 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> , <b>2015</b> , 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> , <b>2015</b> , 8, 146   | 7.8 | 67        |
| 64 | Polycyclic aromatic hydrocarbon (PAH) degradation coupled to methanogenesis. <i>Biotechnology Letters</i> , <b>2006</b> , 28, 425-30   | 3   | 66        |
| 63 | Photosynthetic conversion of CO <sub>2</sub> to farnesyl diphosphate-derived phytochemicals (amorpha-4,11-diene and squalene) by engineered cyanobacteria. <i>Biotechnology for Biofuels</i> , <b>2016</b> , 9, 202                  | 7.8 | 57        |
| 62 | Electrochemical detoxification of phenolic compounds in lignocellulosic hydrolysate for <i>Clostridium</i> fermentation. <i>Bioresource Technology</i> , <b>2015</b> , 187, 228-234  | 11  | 54        |

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| 61 | Microbial Synthesis of Myrcene by Metabolically Engineered Escherichia coli. <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 4606-12  | 5.7  | 53 |
| 60 | Engineering of a modular and synthetic phosphoketolase pathway for photosynthetic production of acetone from CO <sub>2</sub> in <i>Synechococcus elongatus</i> PCC 7942 under light and aerobic condition. <i>Plant Biotechnology Journal</i> , <b>2016</b> , 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> , <b>2014</b> , 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> , <b>2017</b> , 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> , <b>2016</b> , 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> , <b>2015</b> , 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> , <b>2017</b> , 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> , <b>2016</b> , 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> , <b>2017</b> , 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> , <b>2020</b> , 13, 12  | 7.8  | 37 |
| 51 | Molecular characterization of polycyclic aromatic hydrocarbon (PAH)-degrading methanogenic communities. <i>Biotechnology Progress</i> , <b>2005</b> , 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> , <b>2018</b> , 17, 4   | 6.4  | 34 |
| 49 | Succinate production from CO <sub>2</sub> -grown microalgal biomass as carbon source using engineered <i>Corynebacterium glutamicum</i> through consolidated bioprocessing. <i>Scientific Reports</i> , <b>2014</b> , 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> , <b>2020</b> , 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> , <b>2017</b> , 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> , <b>2016</b> , 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> , <b>2017</b> , 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> , <b>2018</b> , 256, 312-320   | 11   | 26 |

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| 43 | Pretreatment of macroalgae for volatile fatty acid production. <i>Bioresource Technology</i> , <b>2013</b> , 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> , <b>2012</b> , 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> , <b>2018</b> , 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> , <b>2015</b> , 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> , <b>2013</b> , 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> , <b>2016</b> , 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> , <b>2013</b> , 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> , <b>2016</b> , 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> , <b>2020</b> , 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> , <b>2017</b> , 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> , <b>2017</b> , 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> , <b>2016</b> , 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> , <b>2015</b> , 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> , <b>2016</b> , 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> , <b>2018</b> , 114, 63-68      | 3.8 14 |
| 28 | 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 |
| 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> , <b>2013</b> , 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> , <b>2019</b> , 273, 446-453                 | 11 14  |

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|----|---|-----|----|
| 25 | Transcriptomic analysis of <i>Corynebacterium glutamicum</i> in the response to the toxicity of furfural present in lignocellulosic hydrolysates. <i>Process Biochemistry</i> , <b>2015</b> , 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> , <b>2013</b> , 63, 3829-3834   | 2.2 | 11 |
| 23 | Extreme furfural tolerance of a soil bacterium <i>Enterobacter cloacae</i> GGT036. <i>Journal of Biotechnology</i> , <b>2015</b> , 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> , <b>2017</b> , 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> , <b>2018</b> , 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> , <b>2015</b> , 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> , <b>2017</b> , 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> , <b>2015</b> , 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> , <b>2016</b> , 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> , <b>2016</b> , 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> , <b>2017</b> , 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> , <b>2019</b> , 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> , <b>2020</b> , 89, 20-28  | 4.8 | 6  |
| 12 | sp. nov., isolated from forest soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2016</b> , 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> , <b>2015</b> , 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> , <b>2010</b> , 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> , <b>2022</b> , 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> , <b>2020</b> , 309, 123386  | 11  | 3  |

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| 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> , <b>2016</b> , 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> , <b>2015</b> , 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> , <b>2019</b> , 76, 732-737                    | 2.4 | 1 |
| 4 | Biotechnological Development for the Production of 1,3-Propanediol and 2,3-Butanediol <b>2013</b> , 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> , <b>2022</b> , 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> , <b>2022</b> , 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> , <b>2022</b> , 10, 826787                            | 5.8 |   |