

# Han Min Woo

## List of Publications by Citations

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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.

79  
papers

2,198  
citations

28  
h-index

44  
g-index

82  
ext. papers

2,621  
ext. citations

5.5  
avg, IF

5.48  
L-index

#	Paper	IF	Citations
79	In silico identification of gene amplification targets for improvement of lycopene production. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 3097-105	4.8	182
78	Mass spectrometry based metabolomic approaches in urinary biomarker study of women's cancers. <i>Clinica Chimica Acta</i> , <b>2009</b> , 400, 63-9	6.2	144
77	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
76	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
75	A dye-decolorizing peroxidase from <i>Bacillus subtilis</i> exhibiting substrate-dependent optimum temperature for dyes and ether lignin dimer. <i>Scientific Reports</i> , <b>2015</b> , 5, 8245	4.9	68
74	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
73	Metabolomic approach to evaluate the toxicological effects of nonylphenol with rat urine. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 6102-10	7.8	65
72	Biosynthesis of pinene from glucose using metabolically-engineered <i>Corynebacterium glutamicum</i> . <i>Biotechnology Letters</i> , <b>2014</b> , 36, 2069-77	3	58
71	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
70	Solar-to-chemical and solar-to-fuel production from CO by metabolically engineered microorganisms. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 45, 1-7	11.4	55
69	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
68	Microbial Synthesis of Myrcene by Metabolically Engineered <i>Escherichia coli</i> . <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 4606-12	5.7	53
67	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
66	Autonomous control of metabolic state by a quorum sensing (QS)-mediated regulator for bisabolene production in engineered <i>E. coli</i> . <i>Metabolic Engineering</i> , <b>2017</b> , 44, 325-336	9.7	51
65	Synergistic effect of multiple stress conditions for improving microalgal lipid production. <i>Algal Research</i> , <b>2016</b> , 19, 215-224	5	48
64	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
63	Recent progress in development of synthetic biology platforms and metabolic engineering of <i>Corynebacterium glutamicum</i> . <i>Journal of Biotechnology</i> , <b>2014</b> , 180, 43-51	3.7	44

62	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
61	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
60	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
59	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
58	Construction of Synthetic Promoter-Based Expression Cassettes for the Production of Cadaverine in Recombinant <i>Corynebacterium glutamicum</i> . <i>Applied Biochemistry and Biotechnology</i> , <b>2015</b> , 176, 2065-2075	3.2	38
57	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
56	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
55	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
54	Improvement in modular scalability of polymeric thin-film photobioreactor for autotrophic culturing of <i>Haematococcus pluvialis</i> using industrial flue gas. <i>Bioresource Technology</i> , <b>2018</b> , 249, 519-526	11	30
53	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
52	Systems-level analysis of genome-scale in silico metabolic models using MetaFluxNet. <i>Biotechnology and Bioprocess Engineering</i> , <b>2005</b> , 10, 425-431	3.1	29
51	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
50	CRISPRi-dCas12a: A dCas12a-Mediated CRISPR Interference for Repression of Multiple Genes and Metabolic Engineering in Cyanobacteria. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 2351-2361	5.7	26
49	Link between phosphate starvation and glycogen metabolism in <i>Corynebacterium glutamicum</i> , revealed by metabolomics. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 6910-9	4.8	24
48	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
47	Efficient lipid extraction from the oleaginous yeast <i>Yarrowia lipolytica</i> using switchable solvents. <i>Renewable Energy</i> , <b>2019</b> , 132, 61-67	8.1	23
46	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
45	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

44	Fractionation of Lignocellulosic Biomass over Core-Shell Ni@Al O Catalysts with Formic Acid as a Cocatalyst and Hydrogen Source. <i>ChemSusChem</i> , <b>2019</b> , 12, 1743-1762	8.3	21
43	CRISPR interference-mediated metabolic engineering of <i>Corynebacterium glutamicum</i> for homo-butyrate production. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 2067-2074	4.9	21
42	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
41	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
40	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
39	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
38	Metabolic rewiring of synthetic pyruvate dehydrogenase bypasses for acetone production in cyanobacteria. <i>Plant Biotechnology Journal</i> , <b>2020</b> , 18, 1860-1868	11.6	15
37	Heterologous Production of Squalene from Glucose in Engineered <i>Corynebacterium glutamicum</i> Using Multiplex CRISPR Interference and High-Throughput Fermentation. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 308-319	5.7	15
36	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
35	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
34	Bio-solar cell factories for photosynthetic isoprenoids production. <i>Planta</i> , <b>2019</b> , 249, 181-193	4.7	13
33	Current understanding of the cyanobacterial CRISPR-Cas systems and development of the synthetic CRISPR-Cas systems for cyanobacteria. <i>Enzyme and Microbial Technology</i> , <b>2020</b> , 140, 109619	3.8	12
32	Application of targeted proteomics and biological parts assembly in <i>E. coli</i> to optimize the biosynthesis of an anti-malarial drug precursor, amorpha-4,11-diene. <i>Chemical Engineering Science</i> , <b>2013</b> , 103, 21-28	4.4	12
31	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
30	Overexpression of the Key Enzymes in the Methylerythritol 4-phosphate Pathway in for Improving Farnesyl Diphosphate-Derived Terpene Production. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 10780-10786	5.7	12
29	Deciphering bacterial xylose metabolism and metabolic engineering of industrial microorganisms for use as efficient microbial cell factories. <i>Applied Microbiology and Biotechnology</i> , <b>2018</b> , 102, 9471-9480	5.7	12
28	Improved CO-derived polyhydroxybutyrate (PHB) production by engineering fast-growing cyanobacterium <i>Synechococcus elongatus</i> UTEX 2973 for potential utilization of flue gas. <i>Bioresource Technology</i> , <b>2021</b> , 327, 124789	11	11
27	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

26	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
25	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
24	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
23	Evolutionary Engineering of Cyanobacteria to Enhance the Production of $\beta$ -Farnesene from CO <sub>2</sub> . <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 13658-13664	5.7	9
22	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
21	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
20	Bioconversion of Xylose to Ethylene Glycol and Glycolate in Engineered. <i>ACS Omega</i> , <b>2019</b> , 4, 21279-21287	3.7	8
19	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
18	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
17	Metabolic Engineering and Synthetic Biology of Cyanobacteria for Carbon Capture and Utilization. <i>Biotechnology and Bioprocess Engineering</i> , <b>2020</b> , 25, 829-847	3.1	7
16	Scalable Cultivation of Engineered Cyanobacteria for Squalene Production from Industrial Flue Gas in a Closed Photobioreactor. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 10050-10055	5.7	7
15	Biocontainment of Engineered PCC 7942 for Photosynthetic Production of $\beta$ -Farnesene from CO <sub>2</sub> . <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 698-703	5.7	7
14	Analysis of Novel Antioxidant Sesquiterpenes (C Terpenes) Produced in Recombinant <i>Corynebacterium glutamicum</i> . <i>Applied Biochemistry and Biotechnology</i> , <b>2018</b> , 186, 525-534	3.2	5
13	sp. nov., isolated from forest soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2016</b> , 66, 1260-1267	2.2	5
12	A Logic NAND Gate for Controlling Gene Expression in a Circadian Rhythm in Cyanobacteria. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 3210-3216	5.7	5
11	Case study of xylose conversion to glycolate in <i>Corynebacterium glutamicum</i> : Current limitation and future perspective of the CRISPR-Cas systems. <i>Enzyme and Microbial Technology</i> , <b>2020</b> , 132, 109395	3.8	5
10	Toward solar biodiesel production from CO <sub>2</sub> using engineered cyanobacteria. <i>FEMS Microbiology Letters</i> , <b>2017</b> , 364,	2.9	4
9	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

8	Biosynthesis of the Calorie-Free Sweetener Precursor -Kaurenoic Acid from CO Using Engineered Cyanobacteria. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 2979-2985	5.7	4
7	Identification of small droplets of photosynthetic squalene in engineered <i>Synechococcus elongatus</i> PCC 7942 using TEM and selective fluorescent Nile red analysis. <i>Letters in Applied Microbiology</i> , <b>2018</b> , 66, 523-529	2.9	3
6	Discovery of Urinary Biomarkers in Patients with Breast Cancer Based on Metabolomics. <i>Mass Spectrometry Letters</i> , <b>2013</b> , 4, 59-66		3
5	Microbial Bioprocess for Extracellular Squalene Production and Formulation of Nanoemulsions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 14263-14276	8.3	2
4	DeepTESR: A Deep Learning Framework to Predict the Degree of Translational Elongation Short Ramp for Gene Expression Control.. <i>ACS Synthetic Biology</i> , <b>2022</b> , 11, 1719-1726	5.7	2
3	Metabolic pathway rewiring in engineered cyanobacteria for solar-to-chemical and solar-to-fuel production from CO. <i>Bioengineered</i> , <b>2018</b> , 9, 2-5	5.7	1
2	Hybrid EmbdenMeyerhofParnas Pathway for Reducing CO2 Loss and Increasing the Acetyl-CoA Levels during Microbial Fermentation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 12394-12405	8.3	0
1	Synthetic Biology for <i>Corynebacterium glutamicum</i> : An Industrial Host for White Biotechnology <b>2018</b> , 321-329		