Han Min Woo

List of Publications by Year in Descending Order

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	DeepTESR: A Deep Learning Framework to Predict the Degree of Translational Elongation Short Ramp for Gene Expression Control.. *ACS Synthetic Biology*, **2022**, 11, 1719-1726	5.7	2
78	Microbial Bioprocess for Extracellular Squalene Production and Formulation of Nanoemulsions. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 14263-14276	8.3	2
77	Improved CO-derived polyhydroxybutyrate (PHB) production by engineering fast-growing cyanobacterium Synechococcus elongatus UTEX 2973 for potential utilization of flue gas. *Bioresource Technology*, **2021**, 327, 124789	11	11
76	Biocontainment of Engineered PCC 7942 for Photosynthetic Production of Farnesene from CO. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 698-703	5.7	7
75	Hybrid EmbdenMeyerhofParnas Pathway for Reducing CO2 Loss and Increasing the Acetyl-CoA Levels during Microbial Fermentation. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 12394-12405	8.3	0
74	CRISPRi-dCas12a: A dCas12a-Mediated CRISPR Interference for Repression of Multiple Genes and Metabolic Engineering in Cyanobacteria. *ACS Synthetic Biology*, **2020**, 9, 2351-2361	5.7	26
73	Current understanding of the cyanobacterial CRISPR-Cas systems and development of the synthetic CRISPR-Cas systems for cyanobacteria. *Enzyme and Microbial Technology*, **2020**, 140, 109619	3.8	12
72	Metabolic rewiring of synthetic pyruvate dehydrogenase bypasses for acetone production in cyanobacteria. *Plant Biotechnology Journal*, **2020**, 18, 1860-1868	11.6	15
71	Metabolic Engineering and Synthetic Biology of Cyanobacteria for Carbon Capture and Utilization. *Biotechnology and Bioprocess Engineering*, **2020**, 25, 829-847	3.1	7
70	A Logic NAND Gate for Controlling Gene Expression in a Circadian Rhythm in Cyanobacteria. *ACS Synthetic Biology*, **2020**, 9, 3210-3216	5.7	5
69	Biosynthesis of the Calorie-Free Sweetener Precursor -Kaurenoic Acid from CO Using Engineered Cyanobacteria. *ACS Synthetic Biology*, **2020**, 9, 2979-2985	5.7	4
68	Scalable Cultivation of Engineered Cyanobacteria for Squalene Production from Industrial Flue Gas in a Closed Photobioreactor. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 10050-10055	5.7	7
67	Overexpression of the Key Enzymes in the Methylerythritol 4-phosphate Pathway in for Improving Farnesyl Diphosphate-Derived Terpene Production. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 10780-10786	5.7	12
66	Case study of xylose conversion to glycolate in Corynebacterium glutamicum: Current limitation and future perspective of the CRISPR-Cas systems. *Enzyme and Microbial Technology*, **2020**, 132, 109395	3.8	5
65	Fractionation of Lignocellulosic Biomass over Core-Shell Ni@Al O Catalysts with Formic Acid as a Cocatalyst and Hydrogen Source. *ChemSusChem*, **2019**, 12, 1743-1762	8.3	21
64	Efficient lipid extraction from the oleaginous yeast Yarrowia lipolytica using switchable solvents. *Renewable Energy*, **2019**, 132, 61-67	8.1	23
63	Bio-solar cell factories for photosynthetic isoprenoids production. *Planta*, **2019**, 249, 181-193	4.7	13

62	Evolutionary Engineering of Cyanobacteria to Enhance the Production of β-Farnesene from CO. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 13658-13664	5.7	9
61	Bioconversion of Xylose to Ethylene Glycol and Glycolate in Engineered. *ACS Omega*, **2019**, 4, 21279-21287	3.7	8
60	Heterologous Production of Squalene from Glucose in Engineered Corynebacterium glutamicum Using Multiplex CRISPR Interference and High-Throughput Fermentation. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 308-319	5.7	15
59	Analysis of Novel Antioxidant Sesquarterpenes (C Terpenes) Produced in Recombinant Corynebacterium glutamicum. *Applied Biochemistry and Biotechnology*, **2018**, 186, 525-534	3.2	5
58	Rapid identification of unknown carboxyl esterase activity in Corynebacterium glutamicum using RNA-guided CRISPR interference. *Enzyme and Microbial Technology*, **2018**, 114, 63-68	3.8	14
57	Aerobic and anaerobic cellulose utilization by Paenibacillus sp. CAA11 and enhancement of its cellulolytic ability by expressing a heterologous endoglucanase. *Journal of Biotechnology*, **2018**, 268, 21-27	3.7	10
56	Synthetic Biology for Corynebacterium glutamicum: An Industrial Host for White Biotechnology **2018**, 321-329		
55	CRISPR interference-mediated metabolic engineering of Corynebacterium glutamicum for homo-butyrate production. *Biotechnology and Bioengineering*, **2018**, 115, 2067-2074	4.9	21
54	Identification of small droplets of photosynthetic squalene in engineered Synechococcus elongatus PCC 7942 using TEM and selective fluorescent Nile red analysis. *Letters in Applied Microbiology*, **2018**, 66, 523-529	2.9	3
53	Metabolic pathway rewiring in engineered cyanobacteria for solar-to-chemical and solar-to-fuel production from CO. *Bioengineered*, **2018**, 9, 2-5	5.7	1
52	RNA-guided single/double gene repressions in Corynebacterium glutamicum using an efficient CRISPR interference and its application to industrial strain. *Microbial Cell Factories*, **2018**, 17, 4	6.4	34
51	Improvement in modular scalability of polymeric thin-film photobioreactor for autotrophic culturing of Haematococcus pluvialis using industrial flue gas. *Bioresource Technology*, **2018**, 249, 519-526	11	30
50	Deciphering bacterial xylose metabolism and metabolic engineering of industrial microorganisms for use as efficient microbial cell factories. *Applied Microbiology and Biotechnology*, **2018**, 102, 9471-9480	5.7	12
49	Modular pathway engineering of Corynebacterium glutamicum to improve xylose utilization and succinate production. *Journal of Biotechnology*, **2017**, 258, 69-78	3.7	39
48	Photosynthetic CO Conversion to Fatty Acid Ethyl Esters (FAEEs) Using Engineered Cyanobacteria. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 1087-1092	5.7	27
47	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	5.7	20
46	Solar-to-chemical and solar-to-fuel production from CO by metabolically engineered microorganisms. *Current Opinion in Biotechnology*, **2017**, 45, 1-7	11.4	55
45	Influences of Media Compositions on Characteristics of Isolated Bacteria Exhibiting Lignocellulolytic Activities from Various Environmental Sites. *Applied Biochemistry and Biotechnology*, **2017**, 183, 931-942	3.2	8

44	Toward solar biodiesel production from CO2 using engineered cyanobacteria. *FEMS Microbiology Letters*, **2017**, 364,	2.9	4
43	Improvement of Squalene Production from CO in Synechococcus elongatus PCC 7942 by Metabolic Engineering and Scalable Production in a Photobioreactor. *ACS Synthetic Biology*, **2017**, 6, 1289-1295	5.7	38
42	Direct Conversion of CO to Farnesene Using Metabolically Engineered Synechococcus elongatus PCC 7942. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 10424-10428	5.7	32
41	Perspectives for biocatalytic lignin utilization: cleaving 4--5 and C-C bonds in dimeric lignin model compounds catalyzed by a promiscuous activity of tyrosinase. *Biotechnology for Biofuels*, **2017**, 10, 212	7.8	10
40	Enhancing Fatty Acid Production of Saccharomyces cerevisiae as an Animal Feed Supplement. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 11029-11035	5.7	7
39	Autonomous control of metabolic state by a quorum sensing (QS)-mediated regulator for bisabolene production in engineered E. coli. *Metabolic Engineering*, **2017**, 44, 325-336	9.7	51
38	Complete genome sequence of Bacillus sp. 275, producing extracellular cellulolytic, xylanolytic and ligninolytic enzymes. *Journal of Biotechnology*, **2017**, 254, 59-62	3.7	20
37	Development of SyneBrick Vectors As a Synthetic Biology Platform for Gene Expression in PCC 7942. *Frontiers in Plant Science*, **2017**, 8, 293	6.2	44
36	Synergistic effect of multiple stress conditions for improving microalgal lipid production. *Algal Research*, **2016**, 19, 215-224	5	48
35	Adaptive evolution and metabolic engineering of a cellobiose- and xylose- negative Corynebacterium glutamicum that co-utilizes cellobiose and xylose. *Microbial Cell Factories*, **2016**, 15, 20	6.4	29
34	Engineering of Corynebacterium glutamicum to utilize methyl acetate, a potential feedstock derived by carbonylation of methanol with CO. *Journal of Biotechnology*, **2016**, 224, 47-50	3.7	7
33	Ethanol production from lignocellulosic hydrolysates using engineered Saccharomyces cerevisiae harboring xylose isomerase-based pathway. *Bioresource Technology*, **2016**, 209, 290-6	11	75
32	High Production of 2,3-Butanediol (2,3-BD) by Raoultella ornithinolytica B6 via Optimizing Fermentation Conditions and Overexpressing 2,3-BD Synthesis Genes. *PLoS ONE*, **2016**, 11, e0165076	3.7	8
31	sp. nov., isolated from forest soil. *International Journal of Systematic and Evolutionary Microbiology*, **2016**, 66, 1260-1267	2.2	5
30	Photosynthetic conversion of CO2 to farnesyl diphosphate-derived phytochemicals (amorpha-4,11-diene and squalene) by engineered cyanobacteria. *Biotechnology for Biofuels*, **2016**, 9, 202	7.8	57
29	Transcriptome landscape of Synechococcus elongatus PCC 7942 for nitrogen starvation responses using RNA-seq. *Scientific Reports*, **2016**, 6, 30584	4.9	22
28	Effective isopropanol-butanol (IB) fermentation with high butanol content using a newly isolated sp. A1424. *Biotechnology for Biofuels*, **2016**, 9, 230	7.8	20
27	Engineering of a modular and synthetic phosphoketolase pathway for photosynthetic production of acetone from CO2 in Synechococcus elongatus PCC 7942 under light and aerobic condition. *Plant Biotechnology Journal*, **2016**, 14, 1768-76	11.6	53

26	Butyric acid production from softwood hydrolysate by acetate-consuming Clostridium sp. S1 with high butyric acid yield and selectivity. *Bioresource Technology*, **2016**, 218, 1208-14	11	23
25	Butyric acid production from red algae by a newly isolated Clostridium sp. S1. *Biotechnology Letters*, **2015**, 37, 1837-44	3	9
24	Microbial Synthesis of Myrcene by Metabolically Engineered Escherichia coli. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 4606-12	5.7	53
23	Electrochemical detoxification of phenolic compounds in lignocellulosic hydrolysate for Clostridium fermentation. *Bioresource Technology*, **2015**, 187, 228-234	11	54
22	Engineering of Corynebacterium glutamicum for growth and succinate production from levoglucosan, a pyrolytic sugar substrate. *FEMS Microbiology Letters*, **2015**, 362,	2.9	23
21	Complete genome sequence of Enterobacter cloacae GGT036: a furfural tolerant soil bacterium. *Journal of Biotechnology*, **2015**, 193, 43-4	3.7	4
20	Extreme furfural tolerance of a soil bacterium Enterobacter cloacae GGT036. *Journal of Biotechnology*, **2015**, 193, 11-3	3.7	10
19	A dye-decolorizing peroxidase from Bacillus subtilis exhibiting substrate-dependent optimum temperature for dyes and β-ether lignin dimer. *Scientific Reports*, **2015**, 5, 8245	4.9	68
18	High production of 2,3-butanediol from biodiesel-derived crude glycerol by metabolically engineered Klebsiella oxytoca M1. *Biotechnology for Biofuels*, **2015**, 8, 146	7.8	67
17	Enhanced 2,3-Butanediol Production by Optimizing Fermentation Conditions and Engineering Klebsiella oxytoca M1 through Overexpression of Acetoin Reductase. *PLoS ONE*, **2015**, 10, e0138109	3.7	41
16	Construction of Synthetic Promoter-Based Expression Cassettes for the Production of Cadaverine in Recombinant Corynebacterium glutamicum. *Applied Biochemistry and Biotechnology*, **2015**, 176, 2065-75	2.2	38
15	Transcriptomic analysis of Corynebacterium glutamicum in the response to the toxicity of furfural present in lignocellulosic hydrolysates. *Process Biochemistry*, **2015**, 50, 347-356	4.8	12
14	In situ detoxification of lignocellulosic hydrolysate using a surfactant for butyric acid production by Clostridium tyrobutyricum ATCC 25755. *Process Biochemistry*, **2015**, 50, 630-635	4.8	18
13	Succinate production from CO_2-grown microalgal biomass as carbon source using engineered Corynebacterium glutamicum through consolidated bioprocessing. *Scientific Reports*, **2014**, 4, 5819	4.9	33
12	Electricity-driven metabolic shift through direct electron uptake by electroactive heterotroph Clostridium pasteurianum. *Scientific Reports*, **2014**, 4, 6961	4.9	109
11	Recent progress in development of synthetic biology platforms and metabolic engineering of Corynebacterium glutamicum. *Journal of Biotechnology*, **2014**, 180, 43-51	3.7	44
10	Synthetic biology platform of CoryneBrick vectors for gene expression in Corynebacterium glutamicum and its application to xylose utilization. *Applied Microbiology and Biotechnology*, **2014**, 98, 5991-6002	5.7	47
9	Biosynthesis of pinene from glucose using metabolically-engineered Corynebacterium glutamicum. *Biotechnology Letters*, **2014**, 36, 2069-77	3	58

8	Application of targeted proteomics and biological parts assembly in E. coli to optimize the biosynthesis of an anti-malarial drug precursor, amorpha-4,11-diene. *Chemical Engineering Science*, **2013**, 103, 21-28	4.4	12
7	Discovery of Urinary Biomarkers in Patients with Breast Cancer Based on Metabolomics. *Mass Spectrometry Letters*, **2013**, 4, 59-66		3
6	Process design and evaluation of value-added chemicals production from biomass. *Biotechnology and Bioprocess Engineering*, **2012**, 17, 1055-1061	3.1	14
5	Link between phosphate starvation and glycogen metabolism in Corynebacterium glutamicum, revealed by metabolomics. *Applied and Environmental Microbiology*, **2010**, 76, 6910-9	4.8	24
4	In silico identification of gene amplification targets for improvement of lycopene production. *Applied and Environmental Microbiology*, **2010**, 76, 3097-105	4.8	182
3	Mass spectrometry based metabolomic approaches in urinary biomarker study of women's cancers. *Clinica Chimica Acta*, **2009**, 400, 63-9	6.2	144
2	Metabolomic approach to evaluate the toxicological effects of nonylphenol with rat urine. *Analytical Chemistry*, **2007**, 79, 6102-10	7.8	65
1	Systems-level analysis of genome-scalein silico metabolic models using MetaFluxNet. *Biotechnology and Bioprocess Engineering*, **2005**, 10, 425-431	3.1	29