

Sung Ok Han

List of Publications by Year in descending order

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97
papers

2,596
citations

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Efficient Synthesis of Food-Derived Antioxidant <i>γ</i> -Ergothioneine by Engineered <i>Corynebacterium glutamicum</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 1516-1524.	2.4	15
2	Glucose/Xylose Co-Fermenting <i>Saccharomyces cerevisiae</i> Increases the Production of Acetyl-CoA Derived n-Butanol From Lignocellulosic Biomass. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 826787.	2.0	1
3	Improving Lipid Production of <i>Yarrowia lipolytica</i> by the Aldehyde Dehydrogenase-Mediated Furfural Detoxification. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4761.	1.8	6
4	Bio-isopropanol production in <i>Corynebacterium glutamicum</i> : Metabolic redesign of synthetic bypasses and two-stage fermentation with gas stripping. <i>Bioresource Technology</i> , 2022, 354, 127171.	4.8	13
5	Enhanced biodegradation of waste poly(ethylene terephthalate) using a reinforced plastic degrading enzyme complex. <i>Science of the Total Environment</i> , 2022, 842, 156890.	3.9	15
6	Enzymatic production of sugar from fungi and fungi-infected lignocellulosic biomass by a new cellulosomal enzyme harboring N-acetyl-l ² -d-glucosaminidase activity. <i>Bioresource Technology</i> , 2021, 319, 124242.	4.8	2
7	Enhanced production of polyhydroxybutyrate from syngas by using nanoscaled cellulose particles with a syngas-converting enzyme complex immobilized on <i>Ralstonia eutropha</i> . <i>Journal of Cleaner Production</i> , 2021, 285, 124903.	4.6	11
8	Ecofriendly Synthesis of <i>γ</i> -Carnosine in Metabolically Engineered <i>Corynebacterium glutamicum</i> by Reinforcing Precursor Accumulation. <i>ACS Synthetic Biology</i> , 2021, 10, 1553-1562.	1.9	9
9	Animal-free heme production for artificial meat in <i>Corynebacterium glutamicum</i> via systems metabolic and membrane engineering. <i>Metabolic Engineering</i> , 2021, 66, 217-228.	3.6	31
10	Non-Photosynthetic CO ₂ Utilization to Increase Fatty Acid Production in <i>Yarrowia lipolytica</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 11912-11918.	2.4	2
11	Efficient utilization of brown algae for the production of Polyhydroxybutyrate (PHB) by using an enzyme complex immobilized on <i>Ralstonia eutropha</i> . <i>International Journal of Biological Macromolecules</i> , 2021, 189, 819-825.	3.6	9
12	Enhanced CO ₂ fixation and lipid production of <i>Chlorella vulgaris</i> through the carbonic anhydrase complex. <i>Bioresource Technology</i> , 2020, 318, 124072.	4.8	22
13	High-yield lipid production from lignocellulosic biomass using engineered xylose-utilizing <i>Yarrowia lipolytica</i> . <i>GCB Bioenergy</i> , 2020, 12, 670-679.	2.5	46
14	Trienzymatic Complex System for Isomerization of Agar-Derived <i>D</i> -Galactose into <i>D</i> -Tagatose as a Low-Calorie Sweetener. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 3195-3202.	2.4	13
15	Power generation from cheese whey using enzymatic fuel cell. <i>Journal of Cleaner Production</i> , 2020, 254, 120181.	4.6	11
16	Enhanced In-Vitro Hemozoin Polymerization by Optimized Process using Histidine-Rich Protein II (HRPII). <i>Polymers</i> , 2019, 11, 1162.	2.0	11
17	Studies of advanced lignin valorization based on various types of lignolytic enzymes and microbes. <i>Bioresource Technology</i> , 2019, 289, 121728.	4.8	42
18	Bioenergy and Biorefinery. <i>Biotechnology Journal</i> , 2019, 14, e1900160.	1.8	7

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19	Systems metabolic engineering of <i>Corynebacterium glutamicum</i> for the bioproduction of biliverdin via protoporphyrin independent pathway. <i>Journal of Biological Engineering</i> , 2019, 13, 28.	2.0	16
20	Effective melanin degradation by a synergistic laccase-peroxidase enzyme complex for skin whitening and other practical applications. <i>International Journal of Biological Macromolecules</i> , 2019, 129, 181-186.	3.6	36
21	Enhanced Production of 5-aminolevulinic Acid via Flux Redistribution of TCA Cycle toward l-Glutamate in <i>Corynebacterium glutamicum</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 915-923.	1.4	20
22	The potential of waste microalgal hydrolysate for power generation in enzymatic fuel cell. <i>Journal of Cleaner Production</i> , 2018, 187, 903-909.	4.6	7
23	Synergistic effect of the enzyme complexes comprising agarase, carrageenase and neoagarobiose hydrolase on degradation of the red algae. <i>Bioresource Technology</i> , 2018, 250, 666-672.	4.8	15
24	Integration of Bacterial Expansin on Agarolytic Complexes to Enhance the Degrading Activity of Red Algae by Control of Gelling Properties. <i>Marine Biotechnology</i> , 2018, 20, 1-9.	1.1	14
25	Creating a New Pathway in <i>Corynebacterium glutamicum</i> for the Production of Taurine as a Food Additive. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 13454-13463.	2.4	19
26	Biosynthesis of organic photosensitizer Zn-porphyrin by diphtheria toxin repressor (DtxR)-mediated global upregulation of engineered heme biosynthesis pathway in <i>Corynebacterium glutamicum</i> . <i>Scientific Reports</i> , 2018, 8, 14460.	1.6	22
27	Enhanced electron transfer mediator based on biochar from microalgal sludge for application to bioelectrochemical systems. <i>Bioresource Technology</i> , 2018, 264, 387-390.	4.8	20
28	Biomimetic magnetoelectric nanocrystals synthesized by polymerization of heme as advanced nanomaterials for biosensing application. <i>Biosensors and Bioelectronics</i> , 2018, 114, 1-9.	5.3	8
29	Modular pathway engineering of <i>Corynebacterium glutamicum</i> to improve xylose utilization and succinate production. <i>Journal of Biotechnology</i> , 2017, 258, 69-78.	1.9	50
30	Comparative analysis of microRNA and mRNA expression profiles in cells and exosomes under toluene exposure. <i>Toxicology in Vitro</i> , 2017, 41, 92-101.	1.1	24
31	Re-utilization of waste glycerol for continuous production of bioethanol by immobilized <i>Enterobacter aerogenes</i> . <i>Journal of Cleaner Production</i> , 2017, 161, 757-764.	4.6	19
32	Metabolic Design of <i>Corynebacterium glutamicum</i> for Production of l-Cysteine with Consideration of Sulfur-Supplemented Animal Feed. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 4698-4707.	2.4	28
33	Bio-Based Production of Dimethyl Itaconate From Rice Wine Waste-Derived Itaconic Acid. <i>Biotechnology Journal</i> , 2017, 12, 1700114.	1.8	18
34	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.	2.4	9
35	Expression of exosomal and cellular microRNAs: as biomarkers for toluene, ethylbenzene, xylene (TEX) exposure. <i>Molecular and Cellular Toxicology</i> , 2016, 12, 359-369.	0.8	10
36	Mutation of a conserved tryptophan residue in the CBM3c of a GH9 endoglucanase inhibits activity. <i>International Journal of Biological Macromolecules</i> , 2016, 92, 159-166.	3.6	9

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37	Design of nanoscale enzyme complexes based on various scaffolding materials for biomass conversion and immobilization. <i>Biotechnology Journal</i> , 2016, 11, 1386-1396.	1.8	34
38	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> , 2016, 133, 511-517.	4.6	12
39	Enhanced thermostability of mesophilic endoglucanase Z with a high catalytic activity at active temperatures. <i>International Journal of Biological Macromolecules</i> , 2016, 86, 269-276.	3.6	16
40	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.	1.9	7
41	Enhanced hydrolysis of lignocellulosic biomass: Bi-functional enzyme complexes expressed in <i>Pichia pastoris</i> improve bioethanol production from <i>Miscanthus sinensis</i> . <i>Biotechnology Journal</i> , 2015, 10, 1912-1919.	1.8	18
42	Efficient biological conversion of carbon monoxide (CO) to carbon dioxide (CO ₂) and for utilization in bioplastic production by <i>Ralstonia eutropha</i> through the display of an enzyme complex on the cell surface. <i>Chemical Communications</i> , 2015, 51, 10202-10205.	2.2	19
43	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.	1.8	21
44	An enhanced protein-protein interaction based on enzymatic complex through replacement of the recognition site. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 1-6.	3.6	3
45	5-Aminolevulinic acid production in engineered <i>Corynebacterium glutamicum</i> via C5 biosynthesis pathway. <i>Enzyme and Microbial Technology</i> , 2015, 81, 1-7.	1.6	36
46	Improved catalytic activities of a dye-decolorizing peroxidase (DyP) by overexpression of ALA and heme biosynthesis genes in <i>Escherichia coli</i> . <i>Process Biochemistry</i> , 2015, 50, 1272-1276.	1.8	18
47	Hydrolytic effects of scaffolding proteins CbpB and CbpC on crystalline cellulose mediated by the major cellulolytic complex from <i>Clostridium cellulovorans</i> . <i>Bioresource Technology</i> , 2015, 191, 505-511.	4.8	9
48	Electrochemical detoxification of phenolic compounds in lignocellulosic hydrolysate for <i>Clostridium</i> fermentation. <i>Bioresource Technology</i> , 2015, 187, 228-234.	4.8	62
49	Enzymatic degradation of lignocellulosic biomass by continuous process using laccase and cellulases with the aid of scaffoldin for ethanol production. <i>Process Biochemistry</i> , 2014, 49, 1266-1273.	1.8	26
50	Efficient enzymatic degradation process for hydrolysis activity of the Carrageenan from red algae in marine biomass. <i>Journal of Biotechnology</i> , 2014, 192, 108-113.	1.9	9
51	Signal amplification by a self-assembled biosensor system designed on the principle of dockerin-cohesin interactions in a cellulosome complex. <i>Analyst</i> , The, 2014, 139, 4790-4793.	1.7	12
52	Bi-functional cellulases complexes displayed on the cell surface of <i>Corynebacterium glutamicum</i> increase hydrolysis of lignocelluloses at elevated temperature. <i>Enzyme and Microbial Technology</i> , 2014, 66, 67-73.	1.6	35
53	Cellulosome-based, <i>Clostridium</i> -derived multi-functional enzyme complexes for advanced biotechnology tool development: Advances and applications. <i>Biotechnology Advances</i> , 2013, 31, 936-944.	6.0	61
54	Co-immobilization of <i>Candida rugosa</i> and <i>Rhizopus oryzae</i> lipases and biodiesel production. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1335-1338.	1.2	42

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55	Kinetic modeling of biodiesel production by mixed immobilized and co-immobilized lipase systems under two pressure conditions. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1272-1276.	1.2	24
56	Enzymatic coproduction of biodiesel and glycerol carbonate from soybean oil in solvent-free system. <i>Enzyme and Microbial Technology</i> , 2013, 53, 154-158.	1.6	34
57	Development of a <i>Saccharomyces cerevisiae</i> strain for increasing the accumulation of triacylglycerol as a microbial oil feedstock for biodiesel production using glycerol as a substrate. <i>Biotechnology and Bioengineering</i> , 2013, 110, 343-347.	1.7	38
58	Unique Contribution of the Cell Wall-Binding Endoglucanase G to the Cellulolytic Complex in <i>Clostridium cellulovorans</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 5942-5948.	1.4	10
59	GntR-Type Transcriptional Regulator PckR Negatively Regulates the Expression of Phosphoenolpyruvate Carboxykinase in <i>Corynebacterium glutamicum</i> . <i>Journal of Bacteriology</i> , 2012, 194, 2181-2188.	1.0	16
60	Enzymatic production of glycerol carbonate from by-product after biodiesel manufacturing process. <i>Enzyme and Microbial Technology</i> , 2012, 51, 143-147.	1.6	54
61	Increased ethanol production from glycerol by <i>Saccharomyces cerevisiae</i> strains with enhanced stress tolerance from the overexpression of SAGA complex components. <i>Enzyme and Microbial Technology</i> , 2012, 51, 237-243.	1.6	17
62	Process design and evaluation of value-added chemicals production from biomass. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 1055-1061.	1.4	16
63	Improvement of surfactin production in <i>Bacillus subtilis</i> using synthetic wastewater by overexpression of specific extracellular signaling peptides, <i>comX</i> and <i>phrC</i> . <i>Biotechnology and Bioengineering</i> , 2012, 109, 2349-2356.	1.7	65
64	Efficient immobilization technique for enhancement of cellobiose dehydrogenase activity on silica gel. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 55-59.	1.4	4
65	Analysis of selective, high protein-protein binding interaction of cohesin-dockerin complex using biosensing methods. <i>Biosensors and Bioelectronics</i> , 2012, 35, 382-389.	5.3	26
66	The processive endoglucanase EngZ is active in crystalline cellulose degradation as a cellulosomal subunit of <i>Clostridium cellulovorans</i> . <i>New Biotechnology</i> , 2012, 29, 365-371.	2.4	28
67	Production of functional agarolytic nano-complex for the synergistic hydrolysis of marine biomass and its potential application in carbohydrate-binding module-utilizing one-step purification. <i>Process Biochemistry</i> , 2012, 47, 877-881.	1.8	12
68	Sugar recovery from rice straw by dilute acid pretreatment. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 183-187.	2.9	38
69	Synthesis of FAEs from glycerol in engineered <i>Saccharomyces cerevisiae</i> using endogenously produced ethanol by heterologous expression of an unspecific bacterial acyltransferase. <i>Biotechnology and Bioengineering</i> , 2012, 109, 110-115.	1.7	74
70	Enhanced production of cellobiose dehydrogenase and β -glucosidase by <i>Phanerochaete chrysosporium</i> . <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 77-81.	1.2	8
71	Improvement of Ethanol Yield from Glycerol via Conversion of Pyruvate to Ethanol in Metabolically Engineered <i>Saccharomyces cerevisiae</i> . <i>Applied Biochemistry and Biotechnology</i> , 2012, 166, 856-865.	1.4	20
72	A cellulolytic complex from <i>Clostridium cellulovorans</i> consisting of mannanase B and endoglucanase E has synergistic effects on galactomannan degradation. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 565-572.	1.7	26

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73	Tolerance of <i>Saccharomyces cerevisiae</i> K35 to lignocellulose-derived inhibitory compounds. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 755-760.	1.4	38
74	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> , 2011, 49, 44-51.	1.6	29
75	Production of minicellulosomes for the enhanced hydrolysis of cellulosic substrates by recombinant <i>Corynebacterium glutamicum</i> . <i>Enzyme and Microbial Technology</i> , 2011, 48, 371-377.	1.6	59
76	Enzymatic coproduction of biodiesel and glycerol carbonate from soybean oil and dimethyl carbonate. <i>Enzyme and Microbial Technology</i> , 2011, 48, 505-509.	1.6	81
77	Increased ethanol resistance in Ethanolic <i>Escherichia coli</i> by Insertion of heat-shock genes BEM1 and SOD2 from <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 770-776.	1.4	7
78	Development of Batch and Continuous Processes on Biodiesel Production in a Packed-Bed Reactor by a Mixture of Immobilized <i>Candida rugosa</i> and <i>Rhizopus oryzae</i> Lipases. <i>Applied Biochemistry and Biotechnology</i> , 2010, 161, 365-371.	1.4	43
79	Enhancement of the thermostability and activity of mesophilic <i>Clostridium cellulovorans</i> EngD by in vitro DNA recombination with <i>Clostridium thermocellum</i> CelE. <i>Journal of Bioscience and Bioengineering</i> , 2010, 109, 331-336.	1.1	19
80	Cellulosomic profiling produced by <i>Clostridium cellulovorans</i> during growth on different carbon sources explored by the cohesin marker. <i>Journal of Biotechnology</i> , 2010, 145, 233-239.	1.9	27
81	Reduction of glycerol production to improve ethanol yield in an engineered <i>Saccharomyces cerevisiae</i> using glycerol as a substrate. <i>Journal of Biotechnology</i> , 2010, 150, 209-214.	1.9	22
82	Engineering of glycerol utilization pathway for ethanol production by <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2010, 101, 4157-4161.	4.8	67
83	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> , 2010, 310, 39-47.	0.7	35
84	Identification and characterization of a transcriptional regulator, SucR, that influences sucCD transcription in <i>Corynebacterium glutamicum</i> . <i>Biochemical and Biophysical Research Communications</i> , 2010, 401, 300-305.	1.0	12
85	Production of Cellulosic Ethanol in <i>Saccharomyces cerevisiae</i> Heterologous Expressing <i>Clostridium thermocellum</i> Endoglucanase and <i>Saccharomycopsis fibuligera</i> Î ² -glucosidase Genes. <i>Molecules and Cells</i> , 2009, 28, 369-374.	1.0	46
86	Cellulosic alcoholic fermentation using recombinant <i>Saccharomyces cerevisiae</i> engineered for the production of <i>Clostridium cellulovorans</i> endoglucanase and <i>Saccharomycopsis fibuligera</i> Î ² -glucosidase. <i>FEMS Microbiology Letters</i> , 2009, 301, 130-136.	0.7	53
87	Antiplatelet activities of newly synthesized derivatives of piperlongumine. <i>Phytotherapy Research</i> , 2008, 22, 1195-1199.	2.8	43
88	Effect of carbon source availability and growth phase on expression of <i>Corynebacterium glutamicum</i> genes involved in the tricarboxylic acid cycle and glyoxylate bypass. <i>Microbiology (United Kingdom)</i> , 2008, 154, 3073-3083.	0.7	46
89	Expression of <i>Corynebacterium glutamicum</i> glycolytic genes varies with carbon source and growth phase. <i>Microbiology (United Kingdom)</i> , 2007, 153, 2190-2202.	0.7	47
90	Molecular Cloning and Transcriptional and Expression Analysis of engO , Encoding a New Noncellulosomal Family 9 Enzyme, from <i>Clostridium cellulovorans</i> . <i>Journal of Bacteriology</i> , 2005, 187, 4884-4889.	1.0	20

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91	Isolation and Expression of the xynB Gene and Its Product, XynB, a Consistent Component of the Clostridium cellulovorans Cellulosome. Journal of Bacteriology, 2004, 186, 8347-8355.	1.0	27
92	Regulation of Expression of Cellulosomes and Noncellulosomal (Hemi)Cellulolytic Enzymes in Clostridium cellulovorans during Growth on Different Carbon Sources. Journal of Bacteriology, 2004, 186, 4218-4227.	1.0	51
93	Transcription of Clostridium cellulovorans Cellulosomal Cellulase and Hemicellulase Genes. Journal of Bacteriology, 2003, 185, 2520-2527.	1.0	37
94	Regulation of Expression of Cellulosomal Cellulase and Hemicellulase Genes in Clostridium cellulovorans. Journal of Bacteriology, 2003, 185, 6067-6075.	1.0	62
95	Cellulosomes from Mesophilic Bacteria. Journal of Bacteriology, 2003, 185, 5907-5914.	1.0	132
96	Isolation of Azospirillum spp. from natural soils by immunomagnetic separation. Soil Biology and Biochemistry, 1998, 30, 975-981.	4.2	10
97	Effect of water availability on degradation of 2, 4-dichlorophenoxyacetic acid (2, 4-d) by soil microorganisms. Soil Biology and Biochemistry, 1994, 26, 1689-1697.	4.2	23