Jung-Oh Ahn

List of Publications by Year
in descending order

61	1,338	331259	377514
papers	citations	21 h-index	34 g-index

67	67	67	1815
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genome-scale metabolic reconstruction and in silico analysis of methylotrophic yeast Pichia pastoris for strain improvement. Microbial Cell Factories, 2010, 9, 50.	1.9	118
2	Enhanced Photodynamic Cancer Treatment by Mitochondriaâ€Targeting and Brominated Nearâ€Infrared Fluorophores. Advanced Science, 2018, 5, 1700481.	5.6	105
3	Production of (3-hydroxybutyrate-co-3-hydroxyhexanoate) copolymer from coffee waste oil using engineered Ralstonia eutropha. Bioprocess and Biosystems Engineering, 2018, 41, 229-235.	1.7	90
4	Enhanced isobutanol production from acetate by combinatorial overexpression of acetylâ€CoA synthetase and anaplerotic enzymes in engineered Escherichia coli. Biotechnology and Bioengineering, 2018, 115, 1971-1978.	1.7	58
5	Translation elongation factor 1-Î± gene from Pichia pastoris: molecular cloning, sequence, and use of its promoter. Applied Microbiology and Biotechnology, 2007, 74, 601-608.	1.7	56
6	Genomeâ€scale metabolic modeling and in silico analysis of lipid accumulating yeast Candida tropicalis for dicarboxylic acid production. Biotechnology and Bioengineering, 2016, 113, 1993-2004.	1.7	55
7	Whole-cell biocatalysis using cytochrome P450 monooxygenases for biotransformation of sustainable bioresources (fatty acids, fatty alkanes, and aromatic amino acids). Biotechnology Advances, 2020, 40, 107504.	6.0	50
8	Enhancement of Monascus Pigment Production by the Culture of Monascus sp. J101 at Low Temperature. Biotechnology Progress, 2006, 22, 338-340.	1.3	45
9	Phosphate-Responsive Promoter of a Pichia pastoris Sodium Phosphate Symporter. Applied and Environmental Microbiology, 2009, 75, 3528-3534.	1.4	40
10	Protective efficacy of Streptococcus iniae derived enolase against Streptococcal infection in a zebrafish model. Veterinary Immunology and Immunopathology, 2016, 170, 25-29.	0.5	40
11	Artificial de novo biosynthesis of hydroxystyrene derivatives in a tyrosine overproducing Escherichia coli strain. Microbial Cell Factories, 2015, 14, 78.	1.9	35
12	Improved l-threonine production of Escherichia coli mutant by optimization of culture conditions. Journal of Bioscience and Bioengineering, 2006, 101, 127-130.	1.1	34
13	Gamma-Aminobutyric Acid Production Using Immobilized Glutamate Decarboxylase Followed by Downstream Processing with Cation Exchange Chromatography. International Journal of Molecular Sciences, 2013, 14, 1728-1739.	1.8	34
14	Production of glutaric acid from 5-aminovaleric acid using Escherichia coli whole cell bio-catalyst overexpressing GabTD from Bacillus subtilis. Enzyme and Microbial Technology, 2018, 118, 57-65.	1.6	27
15	Production of glutaric acid from 5-aminovaleric acid by robust whole-cell immobilized with polyvinyl alcohol and polyethylene glycol. Enzyme and Microbial Technology, 2019, 128, 72-78.	1.6	27
16	Identification of novel immunogenic proteins in pathogenic Haemophilus parasuis based on genome sequence analysis. Veterinary Microbiology, 2011, 148, 89-92.	0.8	26
17	NADPH-dependent pgi-gene knockout Escherichia coli metabolism producing shikimate on different carbon sources. FEMS Microbiology Letters, 2011, 324, 10-16.	0.7	25
18	Expression, Immobilization and Enzymatic Properties of Glutamate Decarboxylase Fused to a Cellulose-Binding Domain. International Journal of Molecular Sciences, 2012, 13, 358-368.	1.8	25

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19	Combinatorial application of two aldehyde oxidoreductases on isobutanol production in the presence of furfural. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 37-44.	1.4	25
20	Effective production of human growth factors in Escherichia coli by fusing with small protein 6HFh8. Microbial Cell Factories, 2021, 20, 9.	1.9	25
21	Evaluation of a silica-coated magnetic nanoparticle for the immobilization of a His-tagged lipase. Biocatalysis and Biotransformation, 2009, 27, 246-253.	1.1	23
22	Development of a promising microbial platform for the production of dicarboxylic acids from biorenewable resources. Biotechnology for Biofuels, 2018, 11, 310.	6.2	23
23	Biotransformation of dicarboxylic acids from vegetable oilâ€“derived sources: current methods and suggestions for improvement. Applied Microbiology and Biotechnology, 2019, 103, 1545-1555.	1.7	22
24	Enhanced production of glutaric acid by NADH oxidase and GabDâ€reinforced bioconversion from <scp>l</scp>â€lysine. Biotechnology and Bioengineering, 2019, 116, 333-341.	1.7	20
25	Microbial production of sebacic acid from a renewable source: production, purification, and polymerization. Green Chemistry, 2019, 21, 6491-6501.	4.6	18
26	Complete genome sequence of the sulfur-oxidizing chemolithoautotrophic Sulfurovum lithotrophicum 42BKTT. Standards in Genomic Sciences, 2017, 12, 54.	1.5	17
27	Codon optimization of Saccharomyces cerevisiae mating factor alpha prepro-leader to improve recombinant protein production in Pichia pastoris. Biotechnology Letters, 2016, 38, 2137-2143.	1.1	15
28	Efficient, galactose-free production of Candida antarctica lipase B by GAL10 promoter in Î”gal80 mutant of Saccharomyces cerevisiae. Process Biochemistry, 2009, 44, 1190-1192.	1.8	14
29	Biomass-derived molecules modulate the behavior of Streptomyces coelicolor for antibiotic production. 3 Biotech, 2016, 6, 223.	1.1	14
30	Effect of decanoic acid and 10-hydroxydecanoic acid on the biotransformation of methyl decanoate to sebacic acid. AMB Express, 2018, 8, 75.	1.4	14
31	Selective extraction of glutaric acid from biological production systems using n-butanol. Journal of Industrial and Engineering Chemistry, 2020, 82, 98-104.	2.9	14
32	Development of glutaric acid production consortium system with Îš-ketoglutaric acid regeneration by glutamate oxidase in Escherichia coli. Enzyme and Microbial Technology, 2020, 133, 109446.	1.6	14
33	GALpromoter-driven heterologous gene expression inSaccharomyces cerevisiaeÎ” strain at anaerobic alcoholic fermentation. FEMS Yeast Research, 2013, 13, 140-142.	1.1	13
34	Synthesis of Fe3O4@nickelâ€“silicate coreâ€“shell nanoparticles for His-tagged enzyme immobilizing agents. Nanotechnology, 2016, 27, 495705.	1.3	13
35	Enhanced isobutanol production by co-production of polyhydroxybutyrate and cofactor engineering. Journal of Biotechnology, 2020, 320, 66-73.	1.9	12
36	Isolation and characterization of a novel Îµ-caprolactam-degrading microbe, Acinetobacter calcoaceticus, from industrial wastewater by chemostat-enrichment. Biotechnology Letters, 2013, 35, 2069-2072.	1.1	11

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37	Direct Biotransformation of Nonanoic Acid and Its Esters to Azelaic Acid by Whole Cell Biocatalyst of Candida tropicalis. ACS Sustainable Chemistry and Engineering, 2019, 7, 17958-17966.	3.2	10
38	Melamine-promoted formation of bright and stable DNAâ€“silver nanoclusters and their antimicrobial properties. Journal of Materials Chemistry B, 2019, 7, 2512-2517.	2.9	10
39	Complete Genome Sequence of Streptococcus iniae YSFST01-82, Isolated from Olive Flounder in Jeju, South Korea. Genome Announcements, 2015, 3, .	0.8	9
40	Characterization of the newly isolated Ï‰-oxidizing yeast Candida sorbophila DS02 and its potential applications in long-chain dicarboxylic acid production. Applied Microbiology and Biotechnology, 2017, 101, 6333-6342.	1.7	9
41	High-level production of N-terminal pro-brain natriuretic peptide, as a calibrant of heart failure diagnosis, in Escherichia coli. Applied Microbiology and Biotechnology, 2019, 103, 4779-4788.	1.7	9
42	GALpromoter-driven heterologous gene expression inSaccharomyces cerevisiaeÎ” strain at anaerobic alcoholic fermentation. FEMS Yeast Research, 2013, 13, 140-142.	1.1	8
43	Efficient proteolytic cleavage by insertion of oligopeptide linkers and its application to production of recombinant human interleukin-6 in Escherichia coli. Enzyme and Microbial Technology, 2009, 44, 254-262.	1.6	7
44	Identification of novel immunogenic proteins against Streptococcus parauberis in a zebrafish model by reverse vaccinology. Microbial Pathogenesis, 2019, 127, 56-59.	1.3	7
45	Engineered EscherichiaÂcoli strains as platforms for biological production of isoprene. FEBS Open Bio, 2020, 10, 780-788.	1.0	7
46	Biohydrogen production from glycerol by novel Clostridium sp. SH25 and its application to biohydrogen car operation. Korean Journal of Chemical Engineering, 2022, 39, 2156-2164.	1.2	7
47	Microcrystalline Cellulose for Delivery of Recombinant Protein-Based Antigen against Erysipelas in Mice. BioMed Research International, 2018, 2018, 1-7.	0.9	6
48	Construction of an Artificial Biosynthetic Pathway for the Styrylpyrone Compound 11-Methoxy-Bisnoryangonin Produced in Engineered Escherichia coli. Frontiers in Microbiology, 2021, 12, 714335.	1.5	6
49	Biosynthesis of C12 Fatty Alcohols by Whole Cell Biotransformation of C12 Derivatives Using Escherichia coli Two-cell Systems Expressing CAR and ADH. Biotechnology and Bioprocess Engineering, 2021, 26, 392-401.	1.4	5
50	Soluble Expression of OmpA from Haemophilus parasuis in Escherichia coli and Its Protective Effects in the Mouse Model of Infection. Journal of Microbiology and Biotechnology, 2012, 22, 1307-1309.	0.9	5
51	L-Glycine Alleviates Furfural-Induced Growth Inhibition during Isobutanol Production in Escherichia coli. Journal of Microbiology and Biotechnology, 2017, 27, 2165-2172.	0.9	5
52	Development of novel on-line capillary gas chromatography-based analysis method for volatile organic compounds produced by aerobic fermentation. Journal of Bioscience and Bioengineering, 2019, 127, 121-127.	1.1	4
53	EngineeringYarrowia lipolyticaforde novoproduction of tetraacetyl phytosphingosine. Journal of Applied Microbiology, 2021, 130, 1981-1992.	1.4	4
54	Application of l-glutamate oxidase from Streptomyces sp. X119-6 with catalase (KatE) to whole-cell systems for glutaric acid production in Escherichia coli. Korean Journal of Chemical Engineering, 2021, 38, 2106-2112.	1.2	4

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55	Enhanced mating-type switching and sexual hybridization in heterothallic yeast Yarrowia lipolytica. FEMS Yeast Research, 2020, 20, .	1.1	3
56	Expression and purification of soluble and active human enterokinase light chain in Escherichia coli. Biotechnology Reports (Amsterdam, Netherlands), 2021, 30, e00626.	2.1	3
57	Construction of an Artificial Biosynthetic Pathway for Zingerone Production in Escherichia coli Using Benzalacetone Synthase from Piper methysticum. Journal of Agricultural and Food Chemistry, 2021, 69, 14620-14629.	2.4	3
58	Engineering of CYP153A33 With Enhanced Ratio of Hydroxylation to Overoxidation Activity in Whole-Cell Biotransformation of Medium-Chain 1-Alkanols. Frontiers in Bioengineering and Biotechnology, 2021, 9, 817455.	2.0	3
59	Development of a glutaric acid production system equipped with stepwise feeding of monosodium glutamate by whole-cell bioconversion. Enzyme and Microbial Technology, 2022, 159, 110053.	1.6	3
60	Monooxygenase-mediated cascade oxidation of fatty acids for the production of biopolymer building blocks. Biomass Conversion and Biorefinery, 2023, 13, 12319-12331.	2.9	2
61	Immobilization of a His-tagged lipase on a silica-coated magnetic nanoparticle coupled with metal affinity ligands. Journal of Biotechnology, 2008, 136, S334.	1.9	1