Il-Kwon Kim

List of Publications by Year
in descending order

19 papers	688 citations	759233 12 h-index	888059 17 g-index
19 all docs	19 docs citations	19 times ranked	956 citing authors

#	Article	IF	Citations
1	Coupled incremental precursor and co-factor supply improves 3-hydroxypropionic acid production in Saccharomyces cerevisiae. Metabolic Engineering, 2014, 22, 104-109.	7.0	123
2	Engineering and systems-level analysis of Saccharomyces cerevisiae for production of 3-hydroxypropionic acid via malonyl-CoA reductase-dependent pathway. Microbial Cell Factories, 2016, 15, 53.	4.0	98
3	A systems-level approach for metabolic engineering of yeast cell factories. FEMS Yeast Research, 2012, 12, 228-248.	2.3	90
4	Metabolic Engineering of <i>Corynebacterium glutamicum</i> for the High-Level Production of Cadaverine That Can Be Used for the Synthesis of Biopolyamide 510. ACS Sustainable Chemistry and Engineering, 2018, 6, 5296-5305.	6.7	83
5	Production of Î²-ionone by combined expression of carotenogenic and plant CCD1 genes in Saccharomyces cerevisiae. Microbial Cell Factories, 2015, 14, 84.	4.0	71
6	Construction of Synthetic Promoter-Based Expression Cassettes for the Production of Cadaverine in Recombinant Corynebacterium glutamicum. Applied Biochemistry and Biotechnology, 2015, 176, 2065-2075.	2.9	47
7	Development of engineered <i>Escherichia coli</i> whole-cell biocatalysts for high-level conversion of <scp>l</scp>-lysine into cadaverine. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 1481-1491.	3.0	35
8	Structural insights into domain movement and cofactor specificity of glutamate dehydrogenase from Corynebacterium glutamicum. Biochemical and Biophysical Research Communications, 2015, 459, 387-392.	2.1	25
9	Structural basis for cytokinin production by LOG from Corynebacterium glutamicum. Scientific Reports, 2016, 6, 31390.	3.3	23
10	Development of Metabolically Engineered <i>Corynebacterium glutamicum</i> for Enhanced Production of Cadaverine and Its Use for the Synthesis of Bio-Polyamide 510. ACS Sustainable Chemistry and Engineering, 2020, 8, 129-138.	6.7	23
11	High-Level Conversion of l-lysine into Cadaverine by Escherichia coli Whole Cell Biocatalyst Expressing Hafnia alvei l-lysine Decarboxylase. Polymers, 2019, 11, 1184.	4.5	21
12	Crystal Structure and Pyridoxal 5-Phosphate Binding Property of Lysine Decarboxylase from Selenomonas ruminantium. PLoS ONE, 2016, 11, e0166667.	2.5	15
13	Improved reutilization of industrial crude lysine to 1,5-diaminopentane by enzymatic decarboxylation using various detergents and organic solvents. Korean Journal of Chemical Engineering, 2018, 35, 1854-1859.	2.7	9
14	Crystal structure of an acetyl-CoA acetyltransferase from PHB producing bacterium Bacillus cereus ATCC 14579. Biochemical and Biophysical Research Communications, 2020, 533, 442-448.	2.1	9
15	Rational Engineering of Homoserine O-Succinyltransferase from <i>Escherichia coli</i> for Reduced Feedback Inhibition by Methionine. Journal of Agricultural and Food Chemistry, 2022, 70, 1571-1578.	5.2	8
16	Structural basis for stereospecificity to d-amino acid of glycine oxidase from Bacillus cereus ATCC 14579. Biochemical and Biophysical Research Communications, 2020, 533, 824-830.	2.1	3
17	Bridging Omics Technologies with Synthetic Biology in Yeast Industrial Biotechnology. , 2012, , 271-327.		2
18	Biochemical properties and crystal structure of isocitrate lyase from Bacillus cereus ATCC 14579. Biochemical and Biophysical Research Communications, 2020, 533, 1177-1183.	2.1	2

#	Article	IF	Citations
19	Crystal Structure and Functional Characterization of the Bifunctional N-(5â€²-Phosphoribosyl)anthranilate Isomerase-indole-3-glycerol-phosphate Synthase from Corynebacterium glutamicum. Journal of Agricultural and Food Chemistry, 2021, 69, 12485-12493.	5.2	1