Joonhoon Kim

List of Publications by Year
in descending order

19	888	686830 13	839053 18
papers	citations	h-index	g-index

23	23	23	1065
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	OptORF: Optimal metabolic and regulatory perturbations for metabolic engineering of microbial strains. BMC Systems Biology, 2010, 4, 53.	3.0	188
2	Machine learning for metabolic engineering: A review. Metabolic Engineering, 2021, 63, 34-60.	3.6	135
3	Integrated analysis of isopentenyl pyrophosphate (IPP) toxicity in isoprenoid-producing Escherichia coli. Metabolic Engineering, 2018, 47, 60-72.	3.6	106
4	RELATCH: relative optimality in metabolic networks explains robust metabolic and regulatory responses to perturbations. Genome Biology, 2012, 13, R78.	13.9	78
5	Large-Scale Bi-Level Strain Design Approaches and Mixed-Integer Programming Solution Techniques. PLoS ONE, 2011, 6, e24162.	1.1	77
6	A toolset of constitutive promoters for metabolic engineering of Rhodosporidium toruloides. Microbial Cell Factories, 2019, 18, 117.	1.9	50
7	Aromatic inhibitors derived from ammonia-pretreated lignocellulose hinder bacterial ethanologenesis by activating regulatory circuits controlling inhibitor efflux and detoxification. Frontiers in Microbiology, 2014, 5, 402.	1.5	46
8	An Automated Phenotype-Driven Approach (GeneForce) for Refining Metabolic and Regulatory Models. PLoS Computational Biology, 2010, 6, e1000970.	1.5	43
9	Further engineering of R. toruloides for the production of terpenes from lignocellulosic biomass. Biotechnology for Biofuels, 2021, 14, 101.	6.2	31
10	Multi-Omics Driven Metabolic Network Reconstruction and Analysis of Lignocellulosic Carbon Utilization in Rhodosporidium toruloides. Frontiers in Bioengineering and Biotechnology, 2020, 8, 612832.	2.0	25
11	Transcriptomic analysis of the oleaginous yeast Lipomyces starkeyi during lipid accumulation on enzymatically treated corn stover hydrolysate. Biotechnology for Biofuels, 2019, 12, 162.	6.2	24
12	Refining metabolic models and accounting for regulatory effects. Current Opinion in Biotechnology, 2014, 29, 34-38.	3.3	23
13	Forward genetics screen coupled with whole-genome resequencing identifies novel gene targets for improving heterologous enzyme production in Aspergillus niger. Applied Microbiology and Biotechnology, 2018, 102, 1797-1807.	1.7	15
14	Integration of Proteomics and Metabolomics Into the Design, Build, Test, Learn Cycle to Improve 3-Hydroxypropionic Acid Production in Aspergillus pseudoterreus. Frontiers in Bioengineering and Biotechnology, 2021, 9, 603832.	2.0	12
15	High-Throughput Large-Scale Targeted Proteomics Assays for Quantifying Pathway Proteins in Pseudomonas putida KT2440. Frontiers in Bioengineering and Biotechnology, 2020, 8, 603488.	2.0	10
16	Systems Metabolic Engineering of Escherichia coli Improves Coconversion of Lignocelluloseâ€Derived Sugars. Biotechnology Journal, 2019, 14, e1800441.	1.8	9
17	Multiomics Data Collection, Visualization, and Utilization for Guiding Metabolic Engineering. Frontiers in Bioengineering and Biotechnology, 2021, 9, 612893.	2.0	7
18	Genetically Engineered Oleaginous Yeast Lipomyces starkeyi for Sesquiterpene Î±-Zingiberene Production. ACS Synthetic Biology, 2021, 10, 1000-1008.	1.9	5

#	Article	IF	Citations
19	Microbial Strain Design for Biochemical Production Using Mixed-integer Programming Techniques. Computer Aided Chemical Engineering, 2011, , 1306-1310.	0.3	0