Meiyappan Lakshmanan

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Harnessing the potential of machine learning for advancing "Quality by Design―in biomanufacturing. MAbs, 2022, 14, 2013593.	5.2	21
2	Systems Biology of Gut Microbiota-Human Receptor Interactions: Toward Anti-inflammatory Probiotics. Frontiers in Microbiology, 2022, 13, 846555.	3.5	3
3	Combined multivariate statistical and flux balance analyses uncover media bottlenecks to the growth and productivity of Chinese hamster ovary cell cultures. Biotechnology and Bioengineering, 2022, 119, 1740-1754.	3.3	7
4	Multiâ€omics profiling of a CHO cell culture system unravels the effect of culture pH on cell growth, antibody titer, and product quality. Biotechnology and Bioengineering, 2021, 118, 4305-4316.	3.3	11
5	Enhancing Microbiome Research through Genome-Scale Metabolic Modeling. MSystems, 2021, 6, e0059921.	3.8	15
6	In silico model-based characterization of metabolic response to harsh sparging stress in fed-batch CHO cell cultures. Journal of Biotechnology, 2020, 308, 10-20.	3.8	10
7	MEMOTE for standardized genome-scale metabolic model testing. Nature Biotechnology, 2020, 38, 272-276.	17.5	314
8	Genomeâ€scale metabolic reconstruction and in silico analysis of theÂrice leaf blight pathogen, <i>Xanthomonas oryzae</i> . Molecular Plant Pathology, 2020, 21, 527-540.	4.2	11
9	Enzyme capacity-based genome scale modelling of CHO cells. Metabolic Engineering, 2020, 60, 138-147.	7.0	51
10	Oral microbiome-systemic link studies: perspectives on current limitations and future artificial intelligence-based approaches. Critical Reviews in Microbiology, 2020, 46, 288-299.	6.1	12
11	Multiâ€omics profiling of CHO parental hosts reveals cell lineâ€specific variations in bioprocessing traits. Biotechnology and Bioengineering, 2019, 116, 2117-2129.	3.3	38
12	Genome and evolution of the shadeâ€requiring medicinal herb <i>Panax ginseng</i> . Plant Biotechnology Journal, 2018, 16, 1904-1917.	8.3	136
13	Ginseng Genome Database: an open-access platform for genomics of Panax ginseng. BMC Plant Biology, 2018, 18, 62.	3.6	73
14	Kinetic Modeling of Mammalian Cell Culture Bioprocessing: The Quest to Advance Biomanufacturing. Biotechnology Journal, 2018, 13, e1700229.	3.5	63
15	Towards next generation CHO cell line development and engineering by systems approaches. Current Opinion in Chemical Engineering, 2018, 22, 1-10.	7.8	43
16	In silico model-guided identification of transcriptional regulator targets for efficient strain design. Microbial Cell Factories, 2018, 17, 167.	4.0	10
17	Comparative phenotypic analysis of CHO clones and culture media for lactate shift. Journal of Biotechnology, 2018, 283, 97-104.	3.8	17
18	Genome-scale model-driven strain design for dicarboxylic acid production in Yarrowia lipolytica. BMC Systems Biology, 2018, 12, 12.	3.0	58

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19	Metabolic Modeling of Microbial Community Interactions for Health, Environmental and Biotechnological Applications. Current Genomics, 2018, 19, 712-722.	1.6	28
20	Mammalian Systems Biotechnology Reveals Global Cellular Adaptations in a Recombinant CHO Cell Line. Cell Systems, 2017, 4, 530-542.e6.	6.2	84
21	Integrative metabolomic analysis reveals diet supplementation with green tea alleviates UVB-damaged mouse skin correlated with ascorbate metabolism and urea cycle. Metabolomics, 2017, 13, 1.	3.0	3
22	Genome-scale modeling and transcriptome analysis of Leuconostoc mesenteroides unravel the redox governed metabolic states in obligate heterofermentative lactic acid bacteria. Scientific Reports, 2017, 7, 15721.	3.3	33
23	Modeling Rice Metabolism: From Elucidating Environmental Effects on Cellular Phenotype to Guiding Crop Improvement. Frontiers in Plant Science, 2016, 7, 1795.	3.6	18
24	Transcriptomicsâ€based strain optimization tool for designing secondary metabolite overproducing strains of <i>Streptomyces coelicolor</i> . Biotechnology and Bioengineering, 2016, 113, 651-660.	3.3	38
25	Genomeâ€scale metabolic modeling and in silico analysis of lipid accumulating yeast <i>Candida tropicalis</i> for dicarboxylic acid production. Biotechnology and Bioengineering, 2016, 113, 1993-2004.	3.3	55
26	A Consensus Genome-scale Reconstruction of Chinese Hamster Ovary Cell Metabolism. Cell Systems, 2016, 3, 434-443.e8.	6.2	205
27	Light-specific transcriptional regulation of the accumulation of carotenoids and phenolic compounds in rice leaves. Plant Signaling and Behavior, 2016, 11, e1184808.	2.4	22
28	Recon 2.2: from reconstruction to model of human metabolism. Metabolomics, 2016, 12, 109.	3.0	243
29	A genetic algorithm-based approach for pre-processing metabolomics and lipidomics LC–MS data. Metabolomics, 2016, 12, 1.	3.0	4
30	Identification of candidate network hubs involved in metabolic adjustments of rice under drought stress by integrating transcriptome data and genome-scale metabolic network. Plant Science, 2016, 242, 224-239.	3.6	39
31	Flux-sum analysis identifies metabolite targets for strain improvement. BMC Systems Biology, 2015, 9, 73.	3.0	15
32	In silico model-driven cofactor engineering strategies for improving the overall NADP(H) turnover in microbial cell factories. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 1401-1414.	3.0	12
33	Unraveling the light-specific metabolic and regulatory signatures of rice through combined in silico modeling and multi-omics analysis. Plant Physiology, 2015, 169, pp.01379.2015.	4.8	68
34	Metabolic and transcriptional regulatory mechanisms underlying the anoxic adaptation of rice coleoptile. AoB PLANTS, 2014, 6, .	2.3	9
35	Software applications for flux balance analysis. Briefings in Bioinformatics, 2014, 15, 108-122.	6.5	94
36	Genome-scale metabolic network reconstruction and in silico flux analysis of the thermophilic bacterium Thermus thermophilus HB27. Microbial Cell Factories, 2014, 13, 61.	4.0	17

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37	Genome-scale in silico modeling and analysis for designing synthetic terpenoid-producing microbial cell factories. Chemical Engineering Science, 2013, 103, 100-108.	3.8	22
38	Proteomic analysis of a disease-resistance-enhanced lesion mimic mutant spotted leaf 5 in rice. Rice, 2013, 6, 1.	4.0	186
39	Identifying essential genes/reactions of the rice photorespiration by in silico model-based analysis. Rice, 2013, 6, 20.	4.0	11
40	Metabolic reconstruction and flux analysis of industrial Pichia yeasts. Applied Microbiology and Biotechnology, 2013, 97, 1865-1873.	3.6	13
41	Elucidating Rice Cell Metabolism under Flooding and Drought Stresses Using Flux-Based Modeling and Analysis. Plant Physiology, 2013, 162, 2140-2150.	4.8	69
42	COFACTOR MODIFICATION ANALYSIS: A COMPUTATIONAL FRAMEWORK TO IDENTIFY COFACTOR SPECIFICITY ENGINEERING TARGETS FOR STRAIN IMPROVEMENT. Journal of Bioinformatics and Computational Biology, 2013, 11, 1343006.	0.8	16