Ahmad A Mannan

List of Publications by Year
in descending order

12 papers	426 citations	1040056 9 h-index	1281871 11 g-index
16 all docs	16 docs citations	16 times ranked	622 citing authors

#	Article	IF	Citations
1	Fundamental Design Principles for Transcription-Factor-Based Metabolite Biosensors. ACS Synthetic Biology, 2017, 6, 1851-1859.	3.8	152
2	Dynamic metabolic control: towards precision engineering of metabolism. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 535-543.	3.0	86
3	Modeling and simulation of the main metabolism in Escherichia coli and its several single-gene knockout mutants with experimental verification. Microbial Cell Factories, 2010, 9, 88.	4.0	68
4	Interrogation of global mutagenesis data with a genome scale model of Neisseria meningitidis to assess gene fitness in vitro and in sera. Genome Biology, 2011, 12, R127.	9.6	30
5	Integrating Kinetic Model of E. coli with Genome Scale Metabolic Fluxes Overcomes Its Open System Problem and Reveals Bistability in Central Metabolism. PLoS ONE, 2015, 10, e0139507.	2.5	23
6	MUFINS: multi-formalism interaction network simulator. Npj Systems Biology and Applications, 2016, 2, 16032.	3.0	18
7	Metabolite Sequestration Enables Rapid Recovery from Fatty Acid Depletion in Escherichia coli. MBio, 2020, 11, .	4.1	13
8	Designing an irreversible metabolic switch for scalable induction of microbial chemical production. Nature Communications, 2021, 12, 3419.	12.8	13
9	Trade-Offs in Biosensor Optimization for Dynamic Pathway Engineering. ACS Synthetic Biology, 2022, 11, 228-240.	3.8	13
10	Multiobjective optimization of gene circuits for metabolic engineering. IFAC-PapersOnLine, 2019, 52, 13-16.	0.9	5
11	gcFront: a tool for determining a Pareto front of growth-coupled cell factory designs. Bioinformatics, 2022, 38, 3657-3659.	4.1	3
12	Signaling Tug-of-War Delivers the Whole Message. Cell Systems, 2016, 3, 414-416.	6.2	0