

Nicholas R Sandoval

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

868
citations

567281

15
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

1202
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic methylotrophy: engineering the production of biofuels and chemicals based on the biology of aerobic methanol utilization. <i>Current Opinion in Biotechnology</i> , 2015, 33, 165-175.	6.6	150
2	Strategy for directing combinatorial genome engineering in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10540-10545.	7.1	87
3	Recent Developments of the Synthetic Biology Toolkit for <i>Clostridium</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 154.	3.5	85
4	Sort-Seq Approach to Engineering a Formaldehyde-Inducible Promoter for Dynamically Regulated <i>Escherichia coli</i> Growth on Methanol. <i>ACS Synthetic Biology</i> , 2017, 6, 1584-1595.	3.8	70
5	Engineering membrane and cell-wall programs for tolerance to toxic chemicals: Beyond solo genes. <i>Current Opinion in Microbiology</i> , 2016, 33, 56-66.	5.1	66
6	Elucidating acetate tolerance in <i>E. coli</i> using a genome-wide approach. <i>Metabolic Engineering</i> , 2011, 13, 214-224.	7.0	60
7	Expression of heterologous sigma factors enables functional screening of metagenomic and heterologous genomic libraries. <i>Nature Communications</i> , 2015, 6, 7045.	12.8	55
8	Characterization of physiological responses to 22 gene knockouts in <i>Escherichia coli</i> central carbon metabolism. <i>Metabolic Engineering</i> , 2016, 37, 102-113.	7.0	50
9	Enzyme I facilitates reverse flux from pyruvate to phosphoenolpyruvate in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2017, 8, 14316.	12.8	41
10	Transcription factor-based biosensors and inducible systems in non-model bacteria: current progress and future directions. <i>Current Opinion in Biotechnology</i> , 2020, 64, 39-46.	6.6	37
11	Whole-genome sequence of an evolved <i>Clostridium pasteurianum</i> strain reveals Spo0A deficiency responsible for increased butanol production and superior growth. <i>Biotechnology for Biofuels</i> , 2015, 8, 227.	6.2	35
12	Genome-Wide Mapping of Furfural Tolerance Genes in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2014, 9, e87540.	2.5	30
13	Comparison of genome-wide selection strategies to identify furfural tolerance genes in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2015, 112, 129-140.	3.3	30
14	Co-utilization of glucose and xylose by evolved <i>Thermus thermophilus</i> LC113 strain elucidated by ¹³ C metabolic flux analysis and whole genome sequencing. <i>Metabolic Engineering</i> , 2016, 37, 63-71.	7.0	27
15	Comparison of Cross-Linked Branched and Linear Poly(ethylene imine) Microgel Microstructures and Their Impact in Antimicrobial Behavior, Copper Chelation, and Carbon Dioxide Capture. <i>ACS Applied Polymer Materials</i> , 2020, 2, 826-836.	4.4	16
16	Transient ammonia stress on Chinese hamster ovary (CHO) cells yield alterations to alanine metabolism and IgG glycosylation profiles. <i>Biotechnology Journal</i> , 2021, 16, e2100098.	3.5	15
17	Clusters of Nanoscale Liposomes Modulate the Release of Encapsulated Species and Mimic the Compartmentalization Intrinsic in Cell Structures. <i>ACS Applied Nano Materials</i> , 2019, 2, 7134-7143.	5.0	11
18	Synthetic biology approaches: the next tools for improved protein production from CHO cells. <i>Current Opinion in Chemical Engineering</i> , 2020, 30, 26-33.	7.8	2

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19	Elucidation of Sequenceâ€“Function Relationships for an Improved Biobutanol In Vivo Biosensor in E. coli. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 821152.	4.1	1