

Nathan Crook

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,741
citations

516710

16
h-index

642732

23
g-index

29
all docs

29
docs citations

29
times ranked

2911
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery and delivery strategies for engineered live biotherapeutic products. Trends in Biotechnology, 2022, 40, 354-369.	9.3	23
2	Inducible directed evolution of complex phenotypes in bacteria. Nucleic Acids Research, 2022, 50, e58-e58.	14.5	5
3	<i>In Silico</i> Identification and Experimental Validation of Peptide-Based Inhibitors Targeting <i>Clostridium difficile</i> Toxin A. ACS Chemical Biology, 2022, 17, 118-128.	3.4	9
4	<i>In Situ</i> Biomanufacturing of Small Molecules in the Mammalian Gut by Probiotic <i>Saccharomyces boulardii</i> . ACS Synthetic Biology, 2021, 10, 1039-1052.	3.8	32
5	What <i>E. coli</i> knows about your 1-year-old infant: Antibiotic use, lifestyle, birth mode, and siblings. Cell Host and Microbe, 2021, 29, 854-855.	11.0	1
6	A Liquid Metal Mediated Metallic Coating for Antimicrobial and Antiviral Fabrics. Advanced Materials, 2021, 33, e2104298.	21.0	84
7	Transcript Barcoding Illuminates the Expression Level of Synthetic Constructs in <i>E. coli</i> Nissle Residing in the Mammalian Gut. ACS Synthetic Biology, 2020, 9, 1010-1021.	3.8	15
8	Barriers to genome editing with CRISPR in bacteria. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 1327-1341.	3.0	78
9	Adaptive Strategies of the Candidate Probiotic <i>E. coli</i> Nissle in the Mammalian Gut. Cell Host and Microbe, 2019, 25, 499-512.e8.	11.0	94
10	Multiscale Evolutionary Dynamics of Host-Associated Microbiomes. Cell, 2018, 172, 1216-1227.	28.9	85
11	The effects of antibiotics on the microbiome throughout development and alternative approaches for therapeutic modulation. Genome Medicine, 2016, 8, 39.	8.2	676
12	Identification of gene knockdown targets conferring enhanced isobutanol and 1-butanol tolerance to <i>Saccharomyces cerevisiae</i> using a tunable RNAi screening approach. Applied Microbiology and Biotechnology, 2016, 100, 10005-10018.	3.6	21
13	In vivo continuous evolution of genes and pathways in yeast. Nature Communications, 2016, 7, 13051.	12.8	106
14	Improvement of lactic acid production in <i>Saccharomyces cerevisiae</i> by a deletion of <i>ssb1</i> . Journal of Industrial Microbiology and Biotechnology, 2016, 43, 87-96.	3.0	20
15	Optimization of a Yeast RNA Interference System for Controlling Gene Expression and Enabling Rapid Metabolic Engineering. ACS Synthetic Biology, 2014, 3, 307-313.	3.8	67
16	Model-based design of synthetic, biological systems. Chemical Engineering Science, 2013, 103, 2-11.	3.8	18
17	Innovation at the intersection of synthetic and systems biology. Current Opinion in Biotechnology, 2012, 23, 712-717.	6.6	29
18	Linking Yeast Gcn5p Catalytic Function and Gene Regulation Using a Quantitative, Graded Dominant Mutant Approach. PLoS ONE, 2012, 7, e36193.	2.5	12

#	ARTICLE	IF	CITATIONS
19	Structure-Guided Directed Evolution of Highly Selective P450-Based Magnetic Resonance Imaging Sensors for Dopamine and Serotonin. <i>Journal of Molecular Biology</i> , 2012, 422, 245-262.	4.2	40
20	Improved productâ€perâ€glucose yields in P450â€dependent propane biotransformations using engineered <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2011, 108, 500-510.	3.3	49
21	Re-engineering multicloning sites for function and convenience. <i>Nucleic Acids Research</i> , 2011, 39, e92-e92.	14.5	38
22	Engineered Alkaneâ€Hydroxylating Cytochrome P450_{BM3} Exhibiting Nativelike Catalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8414-8418.	13.8	221