Nathan Crook

List of Publications by Year
in descending order

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	The effects of antibiotics on the microbiome throughout development and alternative approaches for therapeutic modulation. Genome Medicine, 2016, 8, 39.	8.2	676
2	Engineered Alkaneâ€Hydroxylating Cytochrome P450_{BM3} Exhibiting Nativelike Catalytic Properties. Angewandte Chemie - International Edition, 2007, 46, 8414-8418.	13.8	221
3	In vivo continuous evolution of genes and pathways in yeast. Nature Communications, 2016, 7, 13051.	12.8	106
4	Adaptive Strategies of the Candidate Probiotic E.Âcoli Nissle in the Mammalian Gut. Cell Host and Microbe, 2019, 25, 499-512.e8.	11.0	94
5	Multiscale Evolutionary Dynamics of Host-Associated Microbiomes. Cell, 2018, 172, 1216-1227.	28.9	85
6	A Liquid Metal Mediated Metallic Coating for Antimicrobial and Antiviral Fabrics. Advanced Materials, 2021, 33, e2104298.	21.0	84
7	Barriers to genome editing with CRISPR in bacteria. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 1327-1341.	3.0	78
8	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
9	Improved productâ€perâ€glucose yields in P450â€dependent propane biotransformations using engineered Escherichia coli. Biotechnology and Bioengineering, 2011, 108, 500-510.	3.3	49
10	Structure-Guided Directed Evolution of Highly Selective P450-Based Magnetic Resonance Imaging Sensors for Dopamine and Serotonin. Journal of Molecular Biology, 2012, 422, 245-262.	4.2	40
11	Re-engineering multicloning sites for function and convenience. Nucleic Acids Research, 2011, 39, e92-e92.	14.5	38
12	In Situ Biomanufacturing of Small Molecules in the Mammalian Gut by Probiotic Saccharomyces boulardii. ACS Synthetic Biology, 2021, 10, 1039-1052.	3.8	32
13	Innovation at the intersection of synthetic and systems biology. Current Opinion in Biotechnology, 2012, 23, 712-717.	6.6	29
14	Discovery and delivery strategies for engineered live biotherapeutic products. Trends in Biotechnology, 2022, 40, 354-369.	9.3	23
15	Identification of gene knockdown targets conferring enhanced isobutanol and 1-butanol tolerance to Saccharomyces cerevisiae using a tunable RNAi screening approach. Applied Microbiology and Biotechnology, 2016, 100, 10005-10018.	3.6	21
16	Improvement of lactic acid production in Saccharomyces cerevisiae by a deletion of ssb1. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 87-96.	3.0	20
17	Model-based design of synthetic, biological systems. Chemical Engineering Science, 2013, 103, 2-11.	3.8	18
18	Transcript Barcoding Illuminates the Expression Level of Synthetic Constructs in E. coli Nissle Residing in the Mammalian Gut. ACS Synthetic Biology, 2020, 9, 1010-1021.	3.8	15

#	Article	IF	Citations
19	Linking Yeast Gcn5p Catalytic Function and Gene Regulation Using a Quantitative, Graded Dominant Mutant Approach. PLoS ONE, 2012, 7, e36193.	2.5	12
20	In Silico Identification and Experimental Validation of Peptide-Based Inhibitors Targeting Clostridium difficile Toxin A. ACS Chemical Biology, 2022, 17, 118-128.	3.4	9
21	Inducible directed evolution of complex phenotypes in bacteria. Nucleic Acids Research, 2022, 50, e58-e58.	14.5	5
22	What E.Âcoli 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