Charlie Gilbert

List of Publications by Year
in descending order

26 papers	2,788 citations	394421 19 h-index	552781 26 g-index
31 all docs	31 docs citations	31 times ranked	2890 citing authors

#	Article	IF	Citations
1	Self-healing through adhesion. Nature Chemical Biology, 2022, 18, 239-240.	8.0	2
2	Living materials with programmable functionalities grown from engineered microbial co-cultures. Nature Materials, 2021, 20, 691-700.	27.5	151
3	Ten future challenges for synthetic biology. Engineering Biology, 2021, 5, 51-59.	1.8	24
4	Bacterial cellulose spheroids as building blocks for 3D and patterned living materials and for regeneration. Nature Communications, 2021, 12, 5027.	12.8	58
5	Komagataeibacter Tool Kit (KTK): A Modular Cloning System for Multigene Constructs and Programmed Protein Secretion from Cellulose Producing Bacteria. ACS Synthetic Biology, 2021, 10, 3422-3434.	3.8	8
6	Engineering Bacterial Cellulose by Synthetic Biology. International Journal of Molecular Sciences, 2020, 21, 9185.	4.1	30
7	Off-Colony Screening of Biosynthetic Libraries by Rapid Laser-Enabled Mass Spectrometry. ACS Synthetic Biology, 2019, 8, 2566-2575.	3.8	17
8	Towards semi-synthetic microbial communities: enhancing soy sauce fermentation properties in B. subtilis co-cultures. Microbial Cell Factories, 2019, 18, 101.	4.0	12
9	Host-aware synthetic biology. Current Opinion in Systems Biology, 2019, 14, 66-72.	2.6	83
10	Engineering a Model Cell for Rational Tuning of GPCR Signaling. Cell, 2019, 177, 782-796.e27.	28.9	142
11	Biological Engineered Living Materials: Growing Functional Materials with Genetically Programmable Properties. ACS Synthetic Biology, 2019, 8, 1-15.	3.8	163
12	Engineered cellâ€toâ€cell signalling within growing bacterial cellulose pellicles. Microbial Biotechnology, 2019, 12, 611-619.	4.2	31
13	Cell-free prediction of protein expression costs for growing cells. Nature Communications, 2018, 9, 1457.	12.8	85
14	Synthetic gene regulation for independent external induction of the Saccharomyces cerevisiae pseudohyphal growth phenotype. Communications Biology, 2018, 1, 7.	4.4	13
15	Burden-driven feedback control of gene expression. Nature Methods, 2018, 15, 387-393.	19.0	281
16	Design of RNA hairpin modules that predictably tune translation in yeast. Synthetic Biology, 2018, 3, ysy019.	2.2	15
17	Extracellular Self-Assembly of Functional and Tunable Protein Conjugates from Bacillus subtilis. ACS Synthetic Biology, 2017, 6, 957-967.	3.8	38
18	Biosynthesis of the antibiotic nonribosomal peptide penicillin in bakerâ€™s yeast. Nature Communications, 2017, 8, 15202.	12.8	81

#	Article	IF	Citations
19	Overloaded and stressed: whole-cell considerations for bacterial synthetic biology. Current Opinion in Microbiology, 2016, 33, 123-130.	5.1	203
20	On the record with E. coli DNA. Science, 2016, 353, 444-445.	12.6	6
21	Engineering control of bacterial cellulose production using a genetic toolkit and a new cellulose-producing strain. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3431-40.	7.1	173
22	BASIC: A New Biopart Assembly Standard for Idempotent Cloning Provides Accurate, Single-Tier DNA Assembly for Synthetic Biology. ACS Synthetic Biology, 2015, 4, 781-787.	3.8	99
23	Quantifying cellular capacity identifies gene expression designs with reduced burden. Nature Methods, 2015, 12, 415-418.	19.0	398
24	R2oDNA Designer: Computational Design of Biologically Neutral Synthetic DNA Sequences. ACS Synthetic Biology, 2014, 3, 525-528.	3.8	63
25	Predicting Translation Initiation Rates for Designing Synthetic Biology. Frontiers in Bioengineering and Biotechnology, 2014, 2, 1.	4.1	184
26	Diversity-based, model-guided construction of synthetic gene networks with predicted functions. Nature Biotechnology, 2009, 27, 465-471.	17.5	409