

Ting Lu

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,408
citations

257450

24
h-index

223800

46
g-index

49
all docs

49
docs citations

49
times ranked

2658
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic Biology Moving into the Clinic. <i>Science</i> , 2011, 333, 1248-1252.	12.6	348
2	Designing microbial consortia with defined social interactions. <i>Nature Chemical Biology</i> , 2018, 14, 821-829.	8.0	250
3	Stochastic Turing patterns in a synthetic bacterial population. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6572-6577.	7.1	154
4	Markerless chromosomal gene deletion in <i>Clostridium beijerinckii</i> using CRISPR/Cas9 system. <i>Journal of Biotechnology</i> , 2015, 200, 1-5.	3.8	153
5	Bacterial Genome Editing with CRISPR-Cas9: Deletion, Integration, Single Nucleotide Modification, and Desirable "Clean" Mutant Selection in <i>Clostridium beijerinckii</i> as an Example. <i>ACS Synthetic Biology</i> , 2016, 5, 721-732.	3.8	143
6	Nonequilibrium physics in biology. <i>Reviews of Modern Physics</i> , 2019, 91, .	45.6	123
7	Autonomous production of 1,4-butanediol via a de novo biosynthesis pathway in engineered <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2015, 29, 135-141.	7.0	109
8	Automatic Compilation from High-Level Biologically-Oriented Programming Language to Genetic Regulatory Networks. <i>PLoS ONE</i> , 2011, 6, e22490.	2.5	87
9	An integrative circuit "host modelling framework for predicting synthetic gene network behaviours. <i>Nature Microbiology</i> , 2017, 2, 1658-1666.	13.3	84
10	Bacterial social interactions drive the emergence of differential spatial colony structures. <i>BMC Systems Biology</i> , 2015, 9, 59.	3.0	62
11	Integrated, systems metabolic picture of acetone-butanol-ethanol fermentation by <i>Clostridium acetobutylicum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8505-8510.	7.1	61
12	Composition and Metabolic Functions of the Microbiome in Fermented Grain during Light-Flavor Baijiu Fermentation. <i>Microorganisms</i> , 2020, 8, 1281.	3.6	52
13	Engineering robust and tunable spatial structures with synthetic gene circuits. <i>Nucleic Acids Research</i> , 2017, 45, 1005-1014.	14.5	48
14	Gene transcription repression in <i>Clostridium beijerinckii</i> using CRISPR-Cas9. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2739-2743.	3.3	46
15	Cloning and Optimization of a Nisin Biosynthesis Pathway for Bacteriocin Harvest. <i>ACS Synthetic Biology</i> , 2014, 3, 439-445.	3.8	41
16	Identification and characterization of core sludge and biofilm microbiota in anaerobic membrane bioreactors. <i>Environment International</i> , 2019, 133, 105165.	10.0	40
17	Phenotypic variability of growing cellular populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18982-18987.	7.1	39
18	Bacterial Consortium-Based Sensing System for Detecting Organophosphorus Pesticides. <i>Analytical Chemistry</i> , 2018, 90, 10577-10584.	6.5	39

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19	Interaction variability shapes succession of synthetic microbial ecosystems. <i>Nature Communications</i> , 2020, 11, 309.	12.8	33
20	Spatial interference scale as a determinant of microbial range expansion. <i>Science Advances</i> , 2018, 4, eaau0695.	10.3	32
21	Characterization of a <i>Clostridium beijerinckii spo0A</i> mutant and its application for butyl butyrate production. <i>Biotechnology and Bioengineering</i> , 2017, 114, 106-112.	3.3	31
22	Statistics of cellular signal transduction as a race to the nucleus by multiple random walkers in compartment/phosphorylation space. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16752-16757.	7.1	30
23	Developing a Synthetic Biology Toolkit for <i>Comamonas testosteroni</i> , an Emerging Cellular Chassis for Bioremediation. <i>ACS Synthetic Biology</i> , 2018, 7, 1753-1762.	3.8	30
24	A molecular noise generator. <i>Physical Biology</i> , 2008, 5, 036006.	1.8	26
25	Population-Dynamic Modeling of Bacterial Horizontal Gene Transfer by Natural Transformation. <i>Biophysical Journal</i> , 2016, 110, 258-268.	0.5	24
26	A gene network engineering platform for lactic acid bacteria. <i>Nucleic Acids Research</i> , 2016, 44, e37-e37.	14.5	24
27	Engineered genetic information processing circuits. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2013, 5, 273-287.	6.6	23
28	Integrative Circuit-Host Modeling of a Genetic Switch in Varying Environments. <i>Scientific Reports</i> , 2020, 10, 8383.	3.3	23
29	Programming the group behaviors of bacterial communities with synthetic cellular communication. <i>Bioresources and Bioprocessing</i> , 2014, 1, .	4.2	22
30	An Ecological Understanding of Quorum Sensing-Controlled Bacteriocin Synthesis. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 443-454.	2.1	22
31	Engineering microbial consortia with rationally designed cellular interactions. <i>Current Opinion in Biotechnology</i> , 2022, 76, 102730.	6.6	22
32	Slow and Steady Wins the Race: A Bacterial Exploitative Competition Strategy in Fluctuating Environments. <i>ACS Synthetic Biology</i> , 2015, 4, 240-248.	3.8	19
33	Circuit-Host Coupling Induces Multifaceted Behavioral Modulations of a Gene Switch. <i>Biophysical Journal</i> , 2018, 114, 737-746.	0.5	18
34	Extinction, coexistence, and localized patterns of a bacterial population with contact-dependent inhibition. <i>BMC Systems Biology</i> , 2014, 8, 23.	3.0	17
35	Development of an oxygen-independent flavin mononucleotide-based fluorescent reporter system in <i>Clostridium beijerinckii</i> and its potential applications. <i>Journal of Biotechnology</i> , 2018, 265, 119-126.	3.8	16
36	A Minimal Transcriptional Controlling Network of Regulatory T Cell Development. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12995-13004.	2.6	15

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37	Genomic, Transcriptional, and Phenotypic Analysis of the Glucose Derepressed <i>Clostridium beijerinckii</i> Mutant Exhibiting Acid Crash Phenotype. <i>Biotechnology Journal</i> , 2017, 12, 1700182.	3.5	14
38	Engineering the bacterium <i>Comamonas testosteroni</i> CNB-1: Plasmid curing and genetic manipulation. <i>Biochemical Engineering Journal</i> , 2018, 133, 74-82.	3.6	13
39	Bacterial Genome Editing with CRISPR-Cas9: Taking <i>Clostridium beijerinckii</i> as an Example. <i>Methods in Molecular Biology</i> , 2018, 1772, 297-325.	0.9	13
40	Synthetic, Context-Dependent Microbial Consortium of Predator and Prey. <i>ACS Synthetic Biology</i> , 2019, 8, 1713-1722.	3.8	13
41	Efficacy of nisin derivatives with improved biochemical characteristics, alone and in combination with endolysin PlyP100 to control <i>Listeria monocytogenes</i> in laboratory-scale Queso Fresco. <i>Food Microbiology</i> , 2021, 94, 103668.	4.2	12
42	Harnessing lactic acid bacteria in synthetic microbial consortia. <i>Trends in Biotechnology</i> , 2022, 40, 8-11.	9.3	11
43	System-level modeling of acetone-butanol-ethanol fermentation. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw074.	1.8	10
44	A comparative phenotypic and genomic analysis of <i>Clostridium beijerinckii</i> mutant with enhanced solvent production. <i>Journal of Biotechnology</i> , 2021, 329, 49-55.	3.8	9
45	Repulsive expansion dynamics in colony growth and gene expression. <i>PLoS Computational Biology</i> , 2021, 17, e1008168.	3.2	5
46	Precise and reliable control of gene expression in <i>Agrobacterium tumefaciens</i> . <i>Biotechnology and Bioengineering</i> , 2021, 118, 3962-3972.	3.3	2
47	MESOSCOPIC CIRCUIT WITH LINEAR DISSIPATION. , 2003, , .		0