

# Lingchong You

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

7,528  
citations

71102

41  
h-index

60623

81  
g-index

108  
all docs

108  
docs citations

108  
times ranked

7841  
citing authors

#	ARTICLE	IF	CITATIONS
1	Editorial overview: All microbial systems go. <i>Current Opinion in Microbiology</i> , 2022, 65, iii-iv.	5.1	0
2	Modulation of microbial community dynamics by spatial partitioning. <i>Nature Chemical Biology</i> , 2022, 18, 394-402.	8.0	23
3	Intra- and interpopulation transposition of mobile genetic elements driven by antibiotic selection. <i>Nature Ecology and Evolution</i> , 2022, 6, 555-564.	7.8	37
4	Programmable living assembly of materials by bacterial adhesion. <i>Nature Chemical Biology</i> , 2022, 18, 289-294.	8.0	40
5	Advances and challenges in programming pattern formation using living cells. <i>Current Opinion in Chemical Biology</i> , 2022, 68, 102147.	6.1	6
6	Engineering consortia by polymeric microbial swarmbots. <i>Nature Communications</i> , 2022, 13, .	12.8	29
7	Repulsive expansion dynamics in colony growth and gene expression. <i>PLoS Computational Biology</i> , 2021, 17, e1008168.	3.2	5
8	Collective colony growth is optimized by branching pattern formation in <i>Pseudomonas aeruginosa</i> . <i>Molecular Systems Biology</i> , 2021, 17, e10089.	7.2	20
9	Living fabrication of functional semi-interpenetrating polymeric materials. <i>Nature Communications</i> , 2021, 12, 3422.	12.8	31
10	Predicting plasmid persistence in microbial communities by coarse-grained modeling. <i>BioEssays</i> , 2021, 43, 2100084.	2.5	2
11	Design patterns for engineering genetic stability. <i>Current Opinion in Biomedical Engineering</i> , 2021, 19, 100297.	3.4	14
12	Engineered microbial consortia: strategies and applications. <i>Microbial Cell Factories</i> , 2021, 20, 211.	4.0	39
13	Growth-stage-dependent regulation of conjugation. <i>AIChE Journal</i> , 2020, 66, e16848.	3.6	17
14	Bacterial Aggregation Leads to Collective Elimination. <i>Trends in Microbiology</i> , 2020, 28, 243-244.	7.7	0
15	Temporal encoding of bacterial identity and traits in growth dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20202-20210.	7.1	10
16	The persistence potential of transferable plasmids. <i>Nature Communications</i> , 2020, 11, 5589.	12.8	16
17	Interindividual Variation in Dietary Carbohydrate Metabolism by Gut Bacteria Revealed with Droplet Microfluidic Culture. <i>MSystems</i> , 2020, 5, .	3.8	34
18	Environmental and genetic determinants of plasmid mobility in pathogenic <i>Escherichia coli</i> . <i>Science Advances</i> , 2020, 6, eaax3173.	10.3	45

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19	Quantifying E2F1 protein dynamics in single cells. <i>Quantitative Biology</i> , 2020, 8, 20-30.	0.5	2
20	Polar-opposite fates. <i>Nature Chemical Biology</i> , 2019, 15, 850-852.	8.0	0
21	Bacterial metabolic state more accurately predicts antibiotic lethality than growth rate. <i>Nature Microbiology</i> , 2019, 4, 2109-2117.	13.3	171
22	Versatile biomanufacturing through stimulus-responsive cell-material feedback. <i>Nature Chemical Biology</i> , 2019, 15, 1017-1024.	8.0	50
23	Massive computational acceleration by using neural networks to emulate mechanism-based biological models. <i>Nature Communications</i> , 2019, 10, 4354.	12.8	50
24	Synthetic Pattern Formation. <i>Biochemistry</i> , 2019, 58, 1478-1483.	2.5	43
25	Engineered Ribonucleoprotein Granules Inhibit Translation in Protocells. <i>Molecular Cell</i> , 2019, 75, 66-75.e5.	9.7	52
26	Prophage Hunter: an integrative hunting tool for active prophages. <i>Nucleic Acids Research</i> , 2019, 47, W74-W80.	14.5	169
27	Emerging strategies for engineering microbial communities. <i>Biotechnology Advances</i> , 2019, 37, 107372.	11.7	88
28	Universal antibiotic tolerance arising from antibiotic-triggered accumulation of pyocyanin in <i>Pseudomonas aeruginosa</i> . <i>PLoS Biology</i> , 2019, 17, e3000573.	5.6	54
29	A unifying framework for interpreting and predicting mutualistic systems. <i>Nature Communications</i> , 2019, 10, 242.	12.8	21
30	Metabolic division of labor in microbial systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2526-2531.	7.1	191
31	Bacterially driven cadmium sulfide precipitation on porous membranes: Toward platforms for photocatalytic applications. <i>Biointerphases</i> , 2018, 13, 011006.	1.6	2
32	Robust, linear correlations between growth rates and $\beta$ -lactam-mediated lysis rates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4069-4074.	7.1	113
33	Applying ecological resistance and resilience to dissect bacterial antibiotic responses. <i>Science Advances</i> , 2018, 4, eaau1873.	10.3	32
34	Synthetic Biology: Reports from CSHA 2016 and More. <i>Biotechnology Journal</i> , 2018, 13, e1800160.	3.5	0
35	Cyclin D/CDK4/6 activity controls G1 length in mammalian cells. <i>PLoS ONE</i> , 2018, 13, e0185637.	2.5	42
36	Hybrid (Organic/Inorganic) Electrodes from Bacterially Precipitated CdS for PEC/Storage Applications. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3734-3743.	3.1	13

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37	Expression level is a key determinant of E2F1-mediated cell fate. <i>Cell Death and Differentiation</i> , 2017, 24, 626-637.	11.2	42
38	Programmable assembly of pressure sensors using pattern-forming bacteria. <i>Nature Biotechnology</i> , 2017, 35, 1087-1093.	17.5	94
39	Hacking DNA copy number for circuit engineering. <i>Nature Genetics</i> , 2017, 49, 1164-1165.	21.4	1
40	Long-term growth data of <i>Escherichia coli</i> at a single-cell level. <i>Scientific Data</i> , 2017, 4, 170036.	5.3	23
41	Drug detoxification dynamics explain the postantibiotic effect. <i>Molecular Systems Biology</i> , 2017, 13, 948.	7.2	31
42	Persistence and reversal of plasmid-mediated antibiotic resistance. <i>Nature Communications</i> , 2017, 8, 1689.	12.8	252
43	Quantitative and synthetic biology approaches to combat bacterial pathogens. <i>Current Opinion in Biomedical Engineering</i> , 2017, 4, 116-126.	3.4	4
44	Processing Oscillatory Signals by Incoherent Feedforward Loops. <i>PLoS Computational Biology</i> , 2016, 12, e1005101.	3.2	23
45	Coupling spatial segregation with synthetic circuits to control bacterial survival. <i>Molecular Systems Biology</i> , 2016, 12, 859.	7.2	33
46	Elements of biological oscillations in time and space. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 1030-1034.	8.2	36
47	Collective Space-Sensing Coordinates Pattern Scaling in Engineered Bacteria. <i>Cell</i> , 2016, 165, 620-630.	28.9	82
48	Dissecting the effects of antibiotics on horizontal gene transfer: Analysis suggests a critical role of selection dynamics. <i>BioEssays</i> , 2016, 38, 1283-1292.	2.5	48
49	Antibiotics as a selective driver for conjugation dynamics. <i>Nature Microbiology</i> , 2016, 1, 16044.	13.3	212
50	Addressing biological uncertainties in engineering gene circuits. <i>Integrative Biology (United Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 T</i>	1.3	36
51	A noisy linear map underlies oscillations in cell size and gene expression in bacteria. <i>Nature</i> , 2015, 523, 357-360.	27.8	209
52	Dynamic control and quantification of bacterial population dynamics in droplets. <i>Biomaterials</i> , 2015, 61, 239-245.	11.4	25
53	Collective antibiotic tolerance: mechanisms, dynamics and intervention. <i>Nature Chemical Biology</i> , 2015, 11, 182-188.	8.0	125
54	Bacterial Temporal Dynamics Enable Optimal Design of Antibiotic Treatment. <i>PLoS Computational Biology</i> , 2015, 11, e1004201.	3.2	38

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55	A Power-Law Dependence of Bacterial Invasion on Mammalian Host Receptors. <i>PLoS Computational Biology</i> , 2015, 11, e1004203.	3.2	4
56	Linear Population Allocation by Bistable Switches in Response to Transient Stimulation. <i>PLoS ONE</i> , 2014, 9, e105408.	2.5	4
57	Programmed Allee effect in bacteria causes a tradeoff between population spread and survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1969-1974.	7.1	59
58	Division of labour between Myc and G1 cyclins in cell cycle commitment and pace control. <i>Nature Communications</i> , 2014, 5, 4750.	12.8	74
59	Phenotypic Signatures Arising from Unbalanced Bacterial Growth. <i>PLoS Computational Biology</i> , 2014, 10, e1003751.	3.2	10
60	Emergent Dynamics from Quorum Eavesdropping. <i>Chemistry and Biology</i> , 2014, 21, 1601-1602.	6.0	2
61	Synthetic Biology Looks Good on Paper. <i>Cell</i> , 2014, 159, 718-720.	28.9	9
62	Stochastic Sensitivity Analysis and Kernel Inference via Distributional Data. <i>Biophysical Journal</i> , 2014, 107, 1247-1255.	0.5	2
63	Synthetic Microbial Consortia and their Applications. , 2013, , 243-258.		9
64	A programmable microenvironment for cellular studies via microfluidics-generated double emulsions. <i>Biomaterials</i> , 2013, 34, 4564-4572.	11.4	86
65	Programmed cell death in bacteria and implications for antibiotic therapy. <i>Trends in Microbiology</i> , 2013, 21, 265-270.	7.7	67
66	Temporal control of self-organized pattern formation without morphogen gradients in bacteria. <i>Molecular Systems Biology</i> , 2013, 9, 697.	7.2	107
67	Tension and Robustness in Multitasking Cellular Networks. <i>PLoS Computational Biology</i> , 2012, 8, e1002491.	3.2	7
68	Optimality and robustness in quorum sensing (QS)-mediated regulation of a costly public good enzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19810-19815.	7.1	113
69	Programming stress-induced altruistic death in engineered bacteria. <i>Molecular Systems Biology</i> , 2012, 8, 626.	7.2	55
70	A different life?. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 243-244.	6.1	2
71	A Synthetic Biology Approach to Understanding Cellular Information Processing. <i>ACS Synthetic Biology</i> , 2012, 1, 389-402.	3.8	27
72	The inoculum effect and band-pass bacterial response to periodic antibiotic treatment. <i>Molecular Systems Biology</i> , 2012, 8, 617.	7.2	84

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73	Engineering microbial systems to explore ecological and evolutionary dynamics. <i>Current Opinion in Biotechnology</i> , 2012, 23, 791-797.	6.6	46
74	Viral-Mediated Noisy Gene Expression Reveals Biphasic E2f1 Response to MYC. <i>Molecular Cell</i> , 2011, 41, 275-285.	9.7	45
75	Division of logic labour. <i>Nature</i> , 2011, 469, 171-172.	27.8	28
76	Programming microbial population dynamics by engineered cell-cell communication. <i>Biotechnology Journal</i> , 2011, 6, 837-849.	3.5	34
77	Network calisthenics. <i>Cell Cycle</i> , 2011, 10, 3086-3094.	2.6	70
78	Bayesian Learning from Marginal Data in Bionetwork Models. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2011, 10, .	0.6	25
79	Computation of Steady-State Probability Distributions in Stochastic Models of Cellular Networks. <i>PLoS Computational Biology</i> , 2011, 7, e1002209.	3.2	12
80	Oscillations by Minimal Bacterial Suicide Circuits Reveal Hidden Facets of Host-Circuit Physiology. <i>PLoS ONE</i> , 2010, 5, e11909.	2.5	56
81	Stochastic E2F Activation and Reconciliation of Phenomenological Cell-Cycle Models. <i>PLoS Biology</i> , 2010, 8, e1000488.	5.6	43
82	Optimal tuning of bacterial sensing potential. <i>Molecular Systems Biology</i> , 2009, 5, 286.	7.2	77
83	Emergent bistability by a growth-modulating positive feedback circuit. <i>Nature Chemical Biology</i> , 2009, 5, 842-848.	8.0	306
84	Spatiotemporal modulation of biodiversity in a synthetic chemical-mediated ecosystem. <i>Nature Chemical Biology</i> , 2009, 5, 929-935.	8.0	89
85	Engineering multicellular systems by cell-cell communication. <i>Current Opinion in Biotechnology</i> , 2009, 20, 461-470.	6.6	48
86	Decoding biological principles using gene circuits. <i>Molecular BioSystems</i> , 2009, 5, 695.	2.9	13
87	A bistable Rb-E2F switch underlies the restriction point. <i>Nature Cell Biology</i> , 2008, 10, 476-482.	10.3	373
88	Engineering microbial consortia: a new frontier in synthetic biology. <i>Trends in Biotechnology</i> , 2008, 26, 483-489.	9.3	809
89	A synthetic <i>Escherichia coli</i> predator-prey ecosystem. <i>Molecular Systems Biology</i> , 2008, 4, 187.	7.2	425
90	Sensing and Integration of Erk and PI3K Signals by Myc. <i>PLoS Computational Biology</i> , 2008, 4, e1000013.	3.2	62

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91	Noise Reduction by Diffusional Dissipation in a Minimal Quorum Sensing Motif. PLoS Computational Biology, 2008, 4, e1000167.	3.2	48
92	A synthetic biology challenge: making cells compute. Molecular BioSystems, 2007, 3, 343.	2.9	35
93	Biology by design: reduction and synthesis of cellular components and behaviour. Journal of the Royal Society Interface, 2007, 4, 607-623.	3.4	56
94	Long-Term Monitoring of Bacteria Undergoing Programmed Population Control in a Microchemostat. Science, 2005, 309, 137-140.	12.6	535
95	Programmed population control by cell-cell communication and regulated killing. Nature, 2004, 428, 868-871.	27.8	696
96	Toward Computational Systems Biology. Cell Biochemistry and Biophysics, 2004, 40, 167-184.	1.8	45
97	Modeling biological systems using Dynetica—a simulator of dynamic networks. Bioinformatics, 2003, 19, 435-436.	4.1	38
98	Intelligent nanoscope for rapid nanomaterial identification and classification. Lab on A Chip, 0, , .	6.0	6