Zemer Gitai

List of Publications by Year
in descending order

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64 papers	5,555 citations	136950 32 h-index	168389 53 g-index

77 all docs	77 docs citations	77 times ranked	5925 citing authors

#	Article	IF	Citations
1	Algal p-coumaric acid induces oxidative stress and siderophore biosynthesis in the bacterial symbiont Phaeobacter inhibens. Cell Chemical Biology, 2022, 29, 670-679.e5.	5.2	9
2	GCN2 adapts protein synthesis to scavenging-dependent growth. Cell Systems, 2022, 13, 158-172.e9.	6.2	12
3	Pseudomonas aeruginosa distinguishes surfaces by stiffness using retraction of type IV pili. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119434119.	7.1	16
4	Pseudomonas aeruginosa detachment from surfaces via a self-made small molecule. Journal of Biological Chemistry, 2021, 296, 100279.	3.4	7
5	Competitive binding of independent extension and retraction motors explains the quantitative dynamics of type IV pili. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	35
6	Monitoring mammalian mitochondrial translation with MitoRiboSeq. Nature Protocols, 2021, 16, 2802-2825.	12.0	16
7	CrvA and CrvB form a curvature-inducing module sufficient to induce cell-shape complexity in Gram-negative bacteria. Nature Microbiology, 2021, 6, 910-920.	13.3	11
8	Acinetobacter baylyi regulates type IV pilus synthesis by employing two extension motors and a motor protein inhibitor. Nature Communications, 2021, 12, 3744.	12.8	13
9	The role of the Cer1 transposon in horizontal transfer of transgenerational memory. Cell, 2021, 184, 4697-4712.e18.	28.9	41
10	Evidence for biosurfactant-induced flow in corners and bacterial spreading in unsaturated porous media. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2111060118.	7.1	10
11	AimB Is a Small Protein Regulator of Cell Size and MreB Assembly. Biophysical Journal, 2020, 119, 593-604.	0.5	3
12	Cytotoxic alkyl-quinolones mediate surface-induced virulence in Pseudomonas aeruginosa. PLoS Pathogens, 2020, 16, e1008867.	4.7	12
13	Modeling microbial metabolic trade-offs in a chemostat. PLoS Computational Biology, 2020, 16, e1008156.	3.2	29
14	C.Âelegans interprets bacterial non-coding RNAs to learn pathogenic avoidance. Nature, 2020, 586, 445-451.	27.8	124
15	A Dual-Mechanism Antibiotic Kills Gram-Negative Bacteria and Avoids Drug Resistance. Cell, 2020, 181, 1518-1532.e14.	28.9	202
16	Both clinical and environmental CaulobacterÂspecies are virulent in the Galleria mellonellaÂinfection model. PLoS ONE, 2020, 15, e0230006.	2.5	7
17	Modeling microbial metabolic trade-offs in a chemostat. , 2020, 16, e1008156.		0
18	Modeling microbial metabolic trade-offs in a chemostat. , 2020, 16, e1008156.		0

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19	Modeling microbial metabolic trade-offs in a chemostat. , 2020, 16, e1008156.		0
20	Modeling microbial metabolic trade-offs in a chemostat. , 2020, 16, e1008156.		0
21	Cytotoxic alkyl-quinolones mediate surface-induced virulence in Pseudomonas aeruginosa. , 2020, 16, e1008867.		0
22	Cytotoxic alkyl-quinolones mediate surface-induced virulence in Pseudomonas aeruginosa. , 2020, 16, e1008867.		0
23	Cytotoxic alkyl-quinolones mediate surface-induced virulence in Pseudomonas aeruginosa. , 2020, 16, e1008867.		0
24	Cytotoxic alkyl-quinolones mediate surface-induced virulence in Pseudomonas aeruginosa. , 2020, 16, e1008867.		0
25	Cytotoxic alkyl-quinolones mediate surface-induced virulence in Pseudomonas aeruginosa. , 2020, 16, e1008867.		0
26	Surface association sensitizes Pseudomonas aeruginosa to quorum sensing. Nature Communications, 2019, 10, 4118.	12.8	34
27	Microfluidic-based transcriptomics reveal force-independent bacterial rheosensing. Nature Microbiology, 2019, 4, 1274-1281.	13.3	53
28	Light-based control of metabolic flux through assembly of synthetic organelles. Nature Chemical Biology, 2019, 15, 589-597.	8.0	176
29	How to Build a Bacterial Cell: MreB as the Foreman of E.Âcoli Construction. Cell, 2018, 172, 1294-1305.	28.9	144
30	Mitochondrial translation requires folate-dependent tRNA methylation. Nature, 2018, 554, 128-132.	27.8	213
31	Mechanical Genomic Studies Reveal the Role of d -Alanine Metabolism in Pseudomonas aeruginosa Cell Stiffness. MBio, 2018, 9, .	4.1	24
32	Post-transcriptional gene regulation by an Hfq-independent small RNA in Caulobacter crescentus. Nucleic Acids Research, 2018, 46, 10969-10982.	14.5	18
33	Escherichia coli translation strategies differ across carbon, nitrogen and phosphorus limitation conditions. Nature Microbiology, 2018, 3, 939-947.	13.3	111
34	MreB polymers and curvature localization are enhanced by RodZ and predict E. coli's cylindrical uniformity. Nature Communications, 2018, 9, 2797.	12.8	48
35	A Periplasmic Polymer Curves Vibrio cholerae and Promotes Pathogenesis. Cell, 2017, 168, 172-185.e15.	28.9	78
36	Human CTP synthase filament structure reveals the active enzyme conformation. Nature Structural and Molecular Biology, 2017, 24, 507-514.	8.2	161

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37	Human SHMT inhibitors reveal defective glycine import as a targetable metabolic vulnerability of diffuse large B-cell lymphoma. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11404-11409.	7.1	190
38	The effect of antibiotics on protein diffusion in the Escherichia coli cytoplasmic membrane. PLoS ONE, 2017, 12, e0185810.	2.5	0
39	A scaffold protein connects type IV pili with the Chp chemosensory system to mediate activation of virulence signaling in Pseudomonas aeruginosa. Molecular Microbiology, 2016, 101, 590-605.	2.5	69
40	MreB Orientation Correlates with Cell Diameter in Escherichia coli. Biophysical Journal, 2016, 111, 1035-1043.	0.5	88
41	Inhibition of Escherichia coli CTP Synthetase by NADH and Other Nicotinamides and Their Mutual Interactions with CTP and GTP. Biochemistry, 2016, 55, 5554-5565.	2.5	27
42	Mode of action and resistance studies unveil new roles for tropodithietic acid as an anticancer agent and the Î³-glutamyl cycle as a proton sink. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1630-1635.	7.1	67
43	RodZ links MreB to cell wall synthesis to mediate MreB rotation and robust morphogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12510-12515.	7.1	129
44	The Mechanical World of Bacteria. Cell, 2015, 161, 988-997.	28.9	422
45	Type IV pili mechanochemically regulate virulence factors in Pseudomonas aeruginosa. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7563-7568.	7.1	320
46	Colonization, Competition, and Dispersal of Pathogens in Fluid Flow Networks. Current Biology, 2015, 25, 1201-1207.	3.9	49
47	Rod-like bacterial shape is maintained by feedback between cell curvature and cytoskeletal localization. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1025-34.	7.1	236
48	The curved shape of Caulobacter crescentus enhances surface colonization in flow. Nature Communications, 2014, 5, 3824.	12.8	95
49	Surface attachment induces Pseudomonas aeruginosa virulence. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16860-16865.	7.1	187
50	De novo morphogenesis in <scp>L</scp>â€forms via geometric control of cell growth. Molecular Microbiology, 2014, 93, 883-896.	2.5	68
51	Enzyme clustering accelerates processing of intermediates through metabolic channeling. Nature Biotechnology, 2014, 32, 1011-1018.	17.5	340
52	Bacterial Evolution: Rewiring Modules to Get in Shape. Current Biology, 2014, 24, R522-R524.	3.9	4
53	Large-scale filament formation inhibits the activity of CTP synthetase. ELife, 2014, 3, e03638.	6.0	159
54	Flow Directs Surface-Attached Bacteria to Twitch Upstream. Biophysical Journal, 2012, 103, 146-151.	0.5	70

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55	The bacterial actin MreB rotates, and rotation depends on cell-wall assembly. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15822-15827.	7.1	391
56	Surface association and the MreB cytoskeleton regulate pilus production, localization and function in Pseudomonas aeruginosa. Molecular Microbiology, 2010, 76, 1411-1426.	2.5	88
57	Isolation and Purification of Actin Homolog MreB from Caulobacter crescentus. FASEB Journal, 2010, 24, lb140.	0.5	0
58	New fluorescence microscopy methods for microbiology: sharper, faster, and quantitative. Current Opinion in Microbiology, 2009, 12, 341-346.	5.1	47
59	Diversification and specialization of the bacterial cytoskeleton. Current Opinion in Cell Biology, 2007, 19, 5-12.	5.4	28
60	Plasmid Segregation: A New Class of Cytoskeletal Proteins Emerges. Current Biology, 2006, 16, R133-R136.	3.9	13
61	MreB Actin-Mediated Segregation of a Specific Region of a Bacterial Chromosome. Cell, 2005, 120, 329-341.	28.9	354
62	The New Bacterial Cell Biology: Moving Parts and Subcellular Architecture. Cell, 2005, 120, 577-586.	28.9	155
63	The choreographed dynamics of bacterial chromosomes. Trends in Microbiology, 2005, 13, 221-228.	7.7	42
64	An actin-like gene can determine cell polarity in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8643-8648.	7.1	288