

Benjamin P Bratton

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,302
citations

567281

15
h-index

794594

19
g-index

35
all docs

35
docs citations

35
times ranked

1643
citing authors

#	ARTICLE	IF	CITATIONS
1	A Dual-Mechanism Antibiotic Kills Gram-Negative Bacteria and Avoids Drug Resistance. <i>Cell</i> , 2020, 181, 1518-1532.e14.	28.9	202
2	How to Build a Bacterial Cell: MreB as the Foreman of <i>E. coli</i> Construction. <i>Cell</i> , 2018, 172, 1294-1305.	28.9	144
3	RodZ links MreB to cell wall synthesis to mediate MreB rotation and robust morphogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12510-12515.	7.1	129
4	Cytoplasmic Protein Mobility in Osmotically Stressed <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2009, 191, 231-237.	2.2	99
5	Entropy-Based Mechanism of Ribosome-Nucleoid Segregation in <i>E. coli</i> Cells. <i>Biophysical Journal</i> , 2011, 100, 2605-2613.	0.5	96
6	MreB Orientation Correlates with Cell Diameter in <i>Escherichia coli</i> . <i>Biophysical Journal</i> , 2016, 111, 1035-1043.	0.5	88
7	A Periplasmic Polymer Curves <i>Vibrio cholerae</i> and Promotes Pathogenesis. <i>Cell</i> , 2017, 168, 172-185.e15.	28.9	78
8	Subdiffraction-Limit Study of Kaede Diffusion and Spatial Distribution in Live <i>Escherichia coli</i> . <i>Biophysical Journal</i> , 2011, 101, 2535-2544.	0.5	67
9	Microfluidic-based transcriptomics reveal force-independent bacterial rheosensing. <i>Nature Microbiology</i> , 2019, 4, 1274-1281.	13.3	53
10	Colocalization of distant chromosomal loci in space in <i>E. coli</i> : a bacterial nucleolus. <i>Genes and Development</i> , 2016, 30, 2272-2285.	5.9	51
11	Distinct cytoskeletal proteins define zones of enhanced cell wall synthesis in <i>Helicobacter pylori</i> . <i>ELife</i> , 2020, 9, .	6.0	51
12	Nonperturbative Imaging of Nucleoid Morphology in Live Bacterial Cells during an Antimicrobial Peptide Attack. <i>Applied and Environmental Microbiology</i> , 2014, 80, 4977-4986.	3.1	48
13	MreB polymers and curvature localization are enhanced by RodZ and predict <i>E. coli</i> 's cylindrical uniformity. <i>Nature Communications</i> , 2018, 9, 2797.	12.8	48
14	Spatial Distribution and Diffusive Motion of RNA Polymerase in Live <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2011, 193, 5138-5146.	2.2	45
15	A gated relaxation oscillator mediated by FrzX controls morphogenetic movements in <i>Myxococcus xanthus</i> . <i>Nature Microbiology</i> , 2018, 3, 948-959.	13.3	44
16	Simple Experimental Methods for Determining the Apparent Focal Shift in a Microscope System. <i>PLoS ONE</i> , 2015, 10, e0134616.	2.5	16
17	CrvA and CrvB form a curvature-inducing module sufficient to induce cell-shape complexity in Gram-negative bacteria. <i>Nature Microbiology</i> , 2021, 6, 910-920.	13.3	11
18	<i>Pseudomonas aeruginosa</i> detachment from surfaces via a self-made small molecule. <i>Journal of Biological Chemistry</i> , 2021, 296, 100279.	3.4	7

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19	Biophysical Measurements of Bacterial Cell Shape. <i>Methods in Molecular Biology</i> , 2016, 1440, 227-245.	0.9	2
20	Three-dimensional Imaging of Bacterial Cells for Accurate Cellular Representations and Precise Protein Localization. <i>Journal of Visualized Experiments</i> , 2019, .	0.3	2
21	Protein Diffusion in the E. coli Cytoplasm and Periplasm under Osmotic Stress. <i>Biophysical Journal</i> , 2009, 96, 30a-31a.	0.5	0
22	Dynamic Spatial Distribution of RNA Polymerase in Live E. coli. <i>Biophysical Journal</i> , 2009, 96, 33a.	0.5	0
23	MreB Senses Local Gaussian Curvature to Pattern Rod-Like Growth of the Bacterial Cell Wall. <i>Biophysical Journal</i> , 2016, 110, 163a.	0.5	0
24	Geometric Enrichment of Enhanced Cell Wall Synthesis and Cytoskeletal Proteins in Straight, Curved, and Helical Rods. <i>Biophysical Journal</i> , 2020, 118, 128a.	0.5	0
25	The effect of antibiotics on protein diffusion in the Escherichia coli cytoplasmic membrane. <i>PLoS ONE</i> , 2017, 12, e0185810.	2.5	0