

Kerwyn Casey Huang

List of Publications by Year in descending order

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Version: 2024-02-01

144
papers

10,518
citations

41344

49
h-index

45317

90
g-index

185
all docs

185
docs citations

185
times ranked

11211
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive, CRISPR-based Functional Analysis of Essential Genes in Bacteria. <i>Cell</i> , 2016, 165, 1493-1506.	28.9	593
2	The Gut Microbiome: Connecting Spatial Organization to Function. <i>Cell Host and Microbe</i> , 2017, 21, 433-442.	11.0	453
3	GTPase activityâ€“coupled treadmilling of the bacterial tubulin FtsZ organizes septal cell wall synthesis. <i>Science</i> , 2017, 355, 744-747.	12.6	410
4	The bacterial actin MreB rotates, and rotation depends on cell-wall assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15822-15827.	7.1	391
5	The outer membrane is an essential load-bearing element in Gram-negative bacteria. <i>Nature</i> , 2018, 559, 617-621.	27.8	388
6	Quantitative Imaging of Gut Microbiota Spatial Organization. <i>Cell Host and Microbe</i> , 2015, 18, 478-488.	11.0	359
7	A Gut Commensal-Produced Metabolite Mediates Colonization Resistance to Salmonella Infection. <i>Cell Host and Microbe</i> , 2018, 24, 296-307.e7.	11.0	329
8	The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans. <i>Science</i> , 2022, 376, eabl4896.	12.6	289
9	Cell shape and cell-wall organization in Gram-negative bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19282-19287.	7.1	280
10	Dynamic structures in <i>Escherichia coli</i> : Spontaneous formation of MinE rings and MinD polar zones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12724-12728.	7.1	258
11	Rod-like bacterial shape is maintained by feedback between cell curvature and cytoskeletal localization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1025-34.	7.1	236
12	Measuring the stiffness of bacterial cells from growth rates in hydrogels of tunable elasticity. <i>Molecular Microbiology</i> , 2012, 84, 874-891.	2.5	212
13	Transient Osmotic Perturbation Causes Long-Term Alteration to the Gut Microbiota. <i>Cell</i> , 2018, 173, 1742-1754.e17.	28.9	171
14	Response of <i>Escherichia coli</i> growth rate to osmotic shock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7807-7812.	7.1	170
15	Recovery of the Gut Microbiota after Antibiotics Depends on Host Diet, Community Context, and Environmental Reservoirs. <i>Cell Host and Microbe</i> , 2019, 26, 650-665.e4.	11.0	166
16	Cell size and growth regulation in the <i>Arabidopsis thaliana</i> apical stem cell niche. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8238-E8246.	7.1	162
17	Sizing up the bacterial cell cycle. <i>Nature Reviews Microbiology</i> , 2017, 15, 606-620.	28.6	157
18	A Curvature-Mediated Mechanism for Localization of Lipids to Bacterial Poles. <i>PLoS Computational Biology</i> , 2006, 2, e151.	3.2	156

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19	Coordination of peptidoglycan synthesis and outer membrane constriction during Escherichia coli cell division. <i>ELife</i> , 2015, 4, .	6.0	154
20	Posttranslational Acetylation of α -Tubulin Constrains Protofilament Number in Native Microtubules. <i>Current Biology</i> , 2012, 22, 1066-1074.	3.9	144
21	How to Build a Bacterial Cell: MreB as the Foreman of E. coli Construction. <i>Cell</i> , 2018, 172, 1294-1305.	28.9	144
22	Disruption of lipid homeostasis in the Gram-negative cell envelope activates a novel cell death pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1565-74.	7.1	142
23	FtsZ Protofilaments Use a Hinge-Opening Mechanism for Constrictive Force Generation. <i>Science</i> , 2013, 341, 392-395.	12.6	131
24	Rapid, precise quantification of bacterial cellular dimensions across a genomic-scale knockout library. <i>BMC Biology</i> , 2017, 15, 17.	3.8	123
25	Full color palette of fluorescent α -amino acids for in situ labeling of bacterial cell walls. <i>Chemical Science</i> , 2017, 8, 6313-6321.	7.4	111
26	Physical properties of the bacterial outer membrane. <i>Nature Reviews Microbiology</i> , 2022, 20, 236-248.	28.6	111
27	Regulation of microbial growth by turgor pressure. <i>Current Opinion in Microbiology</i> , 2018, 42, 62-70.	5.1	110
28	Cooperative Gating and Spatial Organization of Membrane Proteins through Elastic Interactions. <i>PLoS Computational Biology</i> , 2007, 3, e81.	3.2	105
29	Mechanisms for maintaining cell shape in rod-shaped Gram-negative bacteria. <i>Molecular Microbiology</i> , 2011, 81, 340-353.	2.5	104
30	Peptidoglycan at its peaks: how chromatographic analyses can reveal bacterial cell wall structure and assembly. <i>Molecular Microbiology</i> , 2013, 89, 1-13.	2.5	104
31	Negative effective permeability in polaritonic photonic crystals. <i>Applied Physics Letters</i> , 2004, 85, 543-545.	3.3	101
32	Lipid Localization in Bacterial Cells through Curvature-Mediated Microphase Separation. <i>Biophysical Journal</i> , 2008, 95, 1034-1049.	0.5	99
33	Mechanical crack propagation drives millisecond daughter cell separation in <i>Staphylococcus aureus</i> . <i>Science</i> , 2015, 348, 574-578.	12.6	98
34	Helical insertion of peptidoglycan produces chiral ordering of the bacterial cell wall. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E595-604.	7.1	97
35	Staying in Touch while on the Go. <i>Cell</i> , 2017, 168, 15-17.	28.9	91
36	A dynamically assembled cell wall synthesis machinery buffers cell growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4554-4559.	7.1	88

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37	Bilayer-Mediated Clustering and Functional Interaction of MscL Channels. <i>Biophysical Journal</i> , 2011, 100, 1252-1260.	0.5	87
38	Macromolecules that prefer their membranes curvy. <i>Molecular Microbiology</i> , 2010, 76, 822-832.	2.5	83
39	Functional genetics of human gut commensal <i>Bacteroides thetaiotaomicron</i> reveals metabolic requirements for growth across environments. <i>Cell Reports</i> , 2021, 34, 108789.	6.4	82
40	Field Expulsion and Reconfiguration in Polaritonic Photonic Crystals. <i>Physical Review Letters</i> , 2003, 90, 196402.	7.8	80
41	A Periplasmic Polymer Curves <i>Vibrio cholerae</i> and Promotes Pathogenesis. <i>Cell</i> , 2017, 168, 172-185.e15.	28.9	78
42	Deep Phenotypic Mapping of Bacterial Cytoskeletal Mutants Reveals Physiological Robustness to Cell Size. <i>Current Biology</i> , 2017, 27, 3419-3429.e4.	3.9	72
43	<i>De novo</i> morphogenesis in <i>Escherichia coli</i> forms via geometric control of cell growth. <i>Molecular Microbiology</i> , 2014, 93, 883-896.	2.5	68
44	The bacterial tubulin FtsZ requires its intrinsically disordered linker to direct robust cell wall construction. <i>Nature Communications</i> , 2015, 6, 7281.	12.8	67
45	<i>Klebsiella michiganensis</i> transmission enhances resistance to Enterobacteriaceae gut invasion by nutrition competition. <i>Nature Microbiology</i> , 2020, 5, 630-641.	13.3	67
46	Biological Consequences and Advantages of Asymmetric Bacterial Growth. <i>Annual Review of Microbiology</i> , 2013, 67, 417-435.	7.3	64
47	Structural basis for the geometry-driven localization of a small protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1908-15.	7.1	63
48	How and why cells grow as rods. <i>BMC Biology</i> , 2014, 12, 54.	3.8	62
49	Systematic Perturbation of Cytoskeletal Function Reveals a Linear Scaling Relationship between Cell Geometry and Fitness. <i>Cell Reports</i> , 2014, 9, 1528-1537.	6.4	61
50	Dynamic SpoIIIE assembly mediates septal membrane fission during <i>Bacillus subtilis</i> sporulation. <i>Genes and Development</i> , 2010, 24, 1160-1172.	5.9	60
51	Mechanical Consequences of Cell-Wall Turnover in the Elongation of a Gram-Positive Bacterium. <i>Biophysical Journal</i> , 2013, 104, 2342-2352.	0.5	60
52	The contractile ring coordinates curvature-dependent septum assembly during fission yeast cytokinesis. <i>Molecular Biology of the Cell</i> , 2015, 26, 78-90.	2.1	58
53	Establishment and characterization of stable, diverse, fecal-derived <i>in vitro</i> microbial communities that model the intestinal microbiota. <i>Cell Host and Microbe</i> , 2022, 30, 260-272.e5.	11.0	58
54	RodZ modulates geometric localization of the bacterial actin MreB to regulate cell shape. <i>Nature Communications</i> , 2018, 9, 1280.	12.8	56

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55	Decoupling of Rates of Protein Synthesis from Cell Expansion Leads to Supergrowth. <i>Cell Systems</i> , 2019, 9, 434-445.e6.	6.2	56
56	Bacterial interspecies interactions modulate pH-mediated antibiotic tolerance. <i>ELife</i> , 2020, 9, .	6.0	56
57	The role of hydrolases in bacterial cell-wall growth. <i>Current Opinion in Microbiology</i> , 2013, 16, 760-766.	5.1	55
58	Analysis of Surface Protein Expression Reveals the Growth Pattern of the Gram-Negative Outer Membrane. <i>PLoS Computational Biology</i> , 2012, 8, e1002680.	3.2	54
59	Optimal Dynamics for Quality Control in Spatially Distributed Mitochondrial Networks. <i>PLoS Computational Biology</i> , 2013, 9, e1003108.	3.2	54
60	Long-term microfluidic tracking of coccoid cyanobacterial cells reveals robust control of division timing. <i>BMC Biology</i> , 2017, 15, 11.	3.8	50
61	Cytoskeletal Network Morphology Regulates Intracellular Transport Dynamics. <i>Biophysical Journal</i> , 2015, 109, 1574-1582.	0.5	48
62	Mechanical Genomics Identifies Diverse Modulators of Bacterial Cell Stiffness. <i>Cell Systems</i> , 2016, 2, 402-411.	6.2	48
63	The Min System as a General Cell Geometry Detection Mechanism: Branch Lengths in Y-Shaped <i>Escherichia coli</i> Cells Affect Min Oscillation Patterns and Division Dynamics. <i>Journal of Bacteriology</i> , 2008, 190, 2106-2117.	2.2	47
64	Homeostatic Cell Growth Is Accomplished Mechanically through Membrane Tension Inhibition of Cell-Wall Synthesis. <i>Cell Systems</i> , 2017, 5, 578-590.e6.	6.2	47
65	Single-molecule imaging reveals modulation of cell wall synthesis dynamics in live bacterial cells. <i>Nature Communications</i> , 2016, 7, 13170.	12.8	44
66	Min-protein oscillations in round bacteria. <i>Physical Biology</i> , 2004, 1, 229-235.	1.8	43
67	Principles of Bacterial Cell-Size Determination Revealed by Cell-Wall Synthesis Perturbations. <i>Cell Reports</i> , 2014, 9, 1520-1527.	6.4	43
68	Mechanically resolved imaging of bacteria using expansion microscopy. <i>PLoS Biology</i> , 2019, 17, e3000268.	5.6	43
69	Isolation and Preparation of Bacterial Cell Walls for Compositional Analysis by Ultra Performance Liquid Chromatography. <i>Journal of Visualized Experiments</i> , 2014, , e51183.	0.3	42
70	Effects of polymerization and nucleotide identity on the conformational dynamics of the bacterial actin homolog MreB. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3585-3590.	7.1	41
71	tRNA Methylation Is a Global Determinant of Bacterial Multi-drug Resistance. <i>Cell Systems</i> , 2019, 8, 302-314.e8.	6.2	41
72	Biosurfactant-Mediated Membrane Depolarization Maintains Viability during Oxygen Depletion in <i>Bacillus subtilis</i> . <i>Current Biology</i> , 2020, 30, 1011-1022.e6.	3.9	41

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73	Coupling between Protein Stability and Catalytic Activity Determines Pathogenicity of G6PD Variants. <i>Cell Reports</i> , 2017, 18, 2592-2599.	6.4	39
74	Morphological and Transcriptional Responses to CRISPRi Knockdown of Essential Genes in <i>Escherichia coli</i> . <i>MBio</i> , 2021, 12, e0256121.	4.1	38
75	Thinking big: the tunability of bacterial cell size. <i>FEMS Microbiology Reviews</i> , 2017, 41, 672-678.	8.6	37
76	Competition for fluctuating resources reproduces statistics of species abundance over time across wide-ranging microbiotas. <i>ELife</i> , 2022, 11, .	6.0	37
77	The inner membrane protein YhdP modulates the rate of anterograde phospholipid flow in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26907-26914.	7.1	36
78	Strain Library Imaging Protocol for high-throughput, automated single-cell microscopy of large bacterial collections arrayed on multiwell plates. <i>Nature Protocols</i> , 2017, 12, 429-438.	12.0	35
79	Variations of intracellular density during the cell cycle arise from tip-growth regulation in fission yeast. <i>ELife</i> , 2021, 10, .	6.0	35
80	Lateral interactions between protofilaments of the bacterial tubulin homolog FtsZ are essential for cell division. <i>ELife</i> , 2018, 7, .	6.0	34
81	Environmental and Physiological Factors Affecting High-Throughput Measurements of Bacterial Growth. <i>MBio</i> , 2020, 11, .	4.1	34
82	Motility Enhancement through Surface Modification Is Sufficient for Cyanobacterial Community Organization during Phototaxis. <i>PLoS Computational Biology</i> , 2013, 9, e1003205.	3.2	33
83	High-throughput, Highly Sensitive Analyses of Bacterial Morphogenesis Using Ultra Performance Liquid Chromatography. <i>Journal of Biological Chemistry</i> , 2015, 290, 31090-31100.	3.4	33
84	Precise regulation of the relative rates of surface area and volume synthesis in bacterial cells growing in dynamic environments. <i>Nature Communications</i> , 2021, 12, 1975.	12.8	32
85	Dash-and-Recruit Mechanism Drives Membrane Curvature Recognition by the Small Bacterial Protein SpoVM. <i>Cell Systems</i> , 2017, 5, 518-526.e3.	6.2	30
86	The effect of microbial colonization on the host proteome varies by gastrointestinal location. <i>ISME Journal</i> , 2016, 10, 1170-1181.	9.8	29
87	The Effects of Temperature on Cellular Physiology. <i>Annual Review of Biophysics</i> , 2022, 51, 499-526.	10.0	29
88	Mechanics of membrane bulging during cell-wall disruption in Gram-negative bacteria. <i>Physical Review E</i> , 2011, 83, 041922.	2.1	28
89	Starvation induces shrinkage of the bacterial cytoplasm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	28
90	Quantifying rapid bacterial evolution and transmission within the mouse intestine. <i>Cell Host and Microbe</i> , 2021, 29, 1454-1468.e4.	11.0	27

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91	Physics of Intracellular Organization in Bacteria. Annual Review of Microbiology, 2015, 69, 361-379.	7.3	24
92	Emergent Phototactic Responses of Cyanobacteria under Complex Light Regimes. MBio, 2017, 8, .	4.1	24
93	Chiral twisting in a bacterial cytoskeletal polymer affects filament size and orientation. Nature Communications, 2020, 11, 1408.	12.8	24
94	Toward Point-of-Care Detection of <i>Mycobacterium tuberculosis</i> : A Brighter Solvatochromic Probe Detects Mycobacteria within Minutes. JACS Au, 2021, 1, 1368-1379.	7.9	24
95	Pattern Formation within <i>Escherichia coli</i> : Diffusion, Membrane Attachment, and Self-Interaction of MinD Molecules. Physical Review Letters, 2004, 93, 228103.	7.8	23
96	Maintenance of Motility Bias during Cyanobacterial Phototaxis. Biophysical Journal, 2015, 108, 1623-1632.	0.5	23
97	Bellymount enables longitudinal, intravital imaging of abdominal organs and the gut microbiota in adult <i>Drosophila</i> . PLoS Biology, 2020, 18, e3000567.	5.6	23
98	Rapid ordering of barcoded transposon insertion libraries of anaerobic bacteria. Nature Protocols, 2021, 16, 3049-3071.	12.0	23
99	Marine Mammal Microbiota Yields Novel Antibiotic with Potent Activity Against <i>Clostridium difficile</i> . ACS Infectious Diseases, 2018, 4, 59-67.	3.8	22
100	Variations in the Binding Pocket of an Inhibitor of the Bacterial Division Protein FtsZ across Genotypes and Species. PLoS Computational Biology, 2015, 11, e1004117.	3.2	21
101	FtsZ-Dependent Elongation of a Coccoid Bacterium. MBio, 2016, 7, .	4.1	21
102	Differential modes of crosslinking establish spatially distinct regions of peptidoglycan in <i>Caulobacter crescentus</i> . Molecular Microbiology, 2019, 111, 995-1008.	2.5	19
103	How Does the <i>Xenopus laevis</i> Embryonic Cell Cycle Avoid Spatial Chaos?. Cell Reports, 2015, 12, 892-900.	6.4	18
104	Effects of fixation on bacterial cellular dimensions and integrity. IScience, 2021, 24, 102348.	4.1	18
105	Does the Potential for Chaos Constrain the Embryonic Cell-Cycle Oscillator?. PLoS Computational Biology, 2011, 7, e1002109.	3.2	14
106	Applications of imaging for bacterial systems biology. Current Opinion in Microbiology, 2015, 27, 114-120.	5.1	14
107	Three-dimensional biofilm colony growth supports a mutualism involving matrix and nutrient sharing. ELife, 2021, 10, .	6.0	14
108	Interplay between the Localization and Kinetics of Phosphorylation in Flagellar Pole Development of the Bacterium <i>Caulobacter crescentus</i> . PLoS Computational Biology, 2012, 8, e1002602.	3.2	13

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109	Entropy-driven translocation of disordered proteins through the Gram-positive bacterial cell wall. <i>Nature Microbiology</i> , 2021, 6, 1055-1065.	13.3	13
110	The molecular origins of chiral growth in walled cells. <i>Current Opinion in Microbiology</i> , 2012, 15, 707-714.	5.1	12
111	Bacterial Evolution in High-Osmolarity Environments. <i>MBio</i> , 2020, 11, .	4.1	12
112	Extracting phylogenetic dimensions of coevolution reveals hidden functional signals. <i>Scientific Reports</i> , 2022, 12, 820.	3.3	12
113	The CIAMIB: a Large and Metabolically Diverse Collection of Inflammation-Associated Bacteria from the Murine Gut. <i>MBio</i> , 2022, , e0294921.	4.1	11
114	Plasmon-actuated nano-assembled microshells. <i>Scientific Reports</i> , 2017, 7, 17788.	3.3	10
115	Chemical-genetic interrogation of RNA polymerase mutants reveals structure-function relationships and physiological tradeoffs. <i>Molecular Cell</i> , 2021, 81, 2201-2215.e9.	9.7	10
116	Superheating and Induced Melting at Semiconductor Interfaces. <i>Physical Review Letters</i> , 2005, 94, 175702.	7.8	9
117	Optimization of the 16S rRNA sequencing analysis pipeline for studying inÂvitro communities of gut commensals. <i>IScience</i> , 2022, 25, 103907.	4.1	9
118	Physical constraints on the establishment of intracellular spatial gradients in bacteria. <i>BMC Biophysics</i> , 2012, 5, 17.	4.4	8
119	Dimer Dynamics and Filament Organization of the Bacterial Cell Division Protein FtsA. <i>Journal of Molecular Biology</i> , 2013, 425, 4415-4426.	4.2	8
120	Limits and Constraints on Mechanisms of Cell-Cycle Regulation Imposed by Cell Size-Homeostasis Measurements. <i>Cell Reports</i> , 2020, 32, 107992.	6.4	7
121	Cell Size: Fat Makes Cells Fat. <i>Current Biology</i> , 2017, 27, R592-R594.	3.9	6
122	FtsZâ€Independent Mechanism of Division Inhibition by the Small Molecule PC190723 in <i>Escherichia coli</i> . <i>Advanced Biology</i> , 2019, 3, 1900021.	3.0	6
123	Bacterial respiration during stationary phase induces intracellular damage that leads to delayed regrowth. <i>IScience</i> , 2022, 25, 103765.	4.1	6
124	Conformational changes, diffusion and collective behavior in monomeric kinesin-based motility. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 374106.	1.8	5
125	Hyperosmotic Shock Transiently Accelerates Constriction Rate in <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 718600.	3.5	5
126	Conservation of conformational dynamics across prokaryotic actins. <i>PLoS Computational Biology</i> , 2019, 15, e1006683.	3.2	4

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127	SiCTeC: An inexpensive, easily assembled Peltier device for rapid temperature shifting during single-cell imaging. PLoS Biology, 2020, 18, e3000786.	5.6	4
128	Recovery of the Gut Microbiota after Antibiotics Depends on Host Diet and Environmental Reservoirs. SSRN Electronic Journal, 0, , .	0.4	4
129	Who's Your Dad? d -Alanine Levels Regulate Bacterial Stiffness. MBio, 2018, 9, .	4.1	3
130	AimB Is a Small Protein Regulator of Cell Size and MreB Assembly. Biophysical Journal, 2020, 119, 593-604.	0.5	3
131	Design of High-Specificity Nanocarriers by Exploiting Non-Equilibrium Effects in Cancer Cell Targeting. PLoS ONE, 2013, 8, e65623.	2.5	2
132	Translating the Physical Code of Life. Cell, 2018, 174, 253-255.	28.9	2
133	Colons or semi-colons: punctuating the regional variation of intestinal microbial-immune interactions. Nature Reviews Gastroenterology and Hepatology, 2020, 17, 319-320.	17.8	2
134	Membrane Tension Inhibits Wall Synthesis via Electrical Depolarization to Balance Bacterial Cell Envelope Expansion. Biophysical Journal, 2018, 114, 28a.	0.5	1
135	Cutting the Gordian Knot of the Microbiota. Molecular Cell, 2018, 70, 765-767.	9.7	1
136	Chromosome Organization: Making Room in a Crowd. Current Biology, 2019, 29, R630-R632.	3.9	1
137	Pictures of Tongues Sticking Out. Trends in Endocrinology and Metabolism, 2020, 31, 805-807.	7.1	1
138	Bacterial Filamentation Drives Colony Chirality. MBio, 2021, 12, e0154221.	4.1	1
139	Super symmetry in cell division. Nature Nanotechnology, 2015, 10, 655-656.	31.5	0
140	When a physicist wanders into biology: an interview with KC Huang. BMC Biology, 2018, 16, 130.	3.8	0
141	Cell geometry and leaflet bilayer asymmetry regulate domain formation in plasma membranes. Physical Review E, 2019, 99, 012401.	2.1	0
142	Straightening up for life in a biofilm. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31573-31574.	7.1	0
143	tRNA Methylation Controls Bacterial Multi-Drug Resistance. FASEB Journal, 2018, 32, 105.1.	0.5	0
144	Decoupling of Rates of Protein Synthesis from Cell Expansion Leads to Supergrowth. SSRN Electronic Journal, 0, , .	0.4	0