

Richard M Berry

List of Publications by Year in descending order

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55
papers

3,696
citations

218677

26
h-index

223800

46
g-index

64
all docs

64
docs citations

64
times ranked

2389
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular structure of the intact bacterial flagellar basal body. <i>Nature Microbiology</i> , 2021, 6, 712-721.	13.3	61
2	Distinct chemotactic behavior in the original <i>Escherichia coli</i> K-12 depending on forward-and-backward swimming, not on run-tumble movements. <i>Scientific Reports</i> , 2020, 10, 15887.	3.3	10
3	Motile ghosts of the halophilic archaeon, <i>Haloferax volcanii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26766-26772.	7.1	6
4	Cryo-EM structures provide insight into how <i>E. coli</i> F1Fo ATP synthase accommodates symmetry mismatch. <i>Nature Communications</i> , 2020, 11, 2615.	12.8	85
5	Assembly and Dynamics of the Bacterial Flagellum. <i>Annual Review of Microbiology</i> , 2020, 74, 181-200.	7.3	42
6	Load-dependent adaptation near zero load in the bacterial flagellar motor. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190300.	3.4	16
7	A multi-mode digital holographic microscope. <i>Review of Scientific Instruments</i> , 2019, 90, 023705.	1.3	12
8	Simultaneous Tracking of <i>Pseudomonas aeruginosa</i> Motility in Liquid and at the Solid-Liquid Interface Reveals Differential Roles for the Flagellar Stators. <i>MSystems</i> , 2019, 4, .	3.8	16
9	Imaging of Single Dye-Labeled Chemotaxis Proteins in Live Bacteria Using Electroporation. <i>Methods in Molecular Biology</i> , 2018, 1729, 233-246.	0.9	1
10	Subunit Exchange in Protein Complexes. <i>Journal of Molecular Biology</i> , 2018, 430, 4557-4579.	4.2	27
11	Detergent-free Ultrafast Reconstitution of Membrane Proteins into Lipid Bilayers Using Fusogenic Complementary-charged Proteoliposomes.. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	2
12	Speed of the bacterial flagellar motor near zero load depends on the number of stator units. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11603-11608.	7.1	30
13	Catch bond drives stator mechanosensitivity in the bacterial flagellar motor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12952-12957.	7.1	78
14	A Simple low-cost device enables four epi-illumination techniques on standard light microscopes. <i>Scientific Reports</i> , 2016, 6, 20729.	3.3	7
15	Single-molecule imaging of electroporated dye-labelled CheY in live <i>Escherichia coli</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150492.	4.0	12
16	The Limiting Speed of the Bacterial Flagellar Motor. <i>Biophysical Journal</i> , 2016, 111, 557-564.	0.5	17
17	Mutations targeting the plug domain of the <i>S. hewanella oneidensis</i> proton-driven stator allow swimming at increased viscosity and under anaerobic conditions. <i>Molecular Microbiology</i> , 2016, 102, 925-938.	2.5	10
18	A modular platform for one-step assembly of multi-component membrane systems by fusion of charged proteoliposomes. <i>Nature Communications</i> , 2016, 7, 13025.	12.8	28

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19	Domain-swap polymerization drives the self-assembly of the bacterial flagellar motor. Nature Structural and Molecular Biology, 2016, 23, 197-203.	8.2	48
20	Comparison between single-molecule and X-ray crystallography data on yeast F1-ATPase. Scientific Reports, 2015, 5, 8773.	3.3	17
21	Dual stator dynamics in the <i>S. hewanella oneidensis</i> flagellar motor. Molecular Microbiology, 2015, 96, 993-1001.	2.5	52
22	Mechanics of torque generation in the bacterial flagellar motor. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4381-9.	7.1	48
23	Composition, Formation, and Regulation of the Cytosolic C-ring, a Dynamic Component of the Type III Secretion Injectisome. PLoS Biology, 2015, 13, e1002039.	5.6	98
24	Stoichiometry and Turnover of the Bacterial Flagellar Switch Protein FliN. MBio, 2014, 5, e01216-14.	4.1	69
25	Hybrid-fuel bacterial flagellar motors in <i>Escherichia coli</i> . Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3436-3441.	7.1	28
26	Quantification of flagellar motor stator dynamics through <i>in vivo</i> proton-motive force control. Molecular Microbiology, 2013, 87, 338-347.	2.5	78
27	Mechanism and kinetics of a sodium-driven bacterial flagellar motor. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2544-51.	7.1	51
28	Load-Dependent Assembly of the Bacterial Flagellar Motor. MBio, 2013, 4, .	4.1	166
29	Flagellar Hook Flexibility Is Essential for Bundle Formation in Swimming <i>Escherichia coli</i> Cells. Journal of Bacteriology, 2012, 194, 3495-3501.	2.2	71
30	1A1534 Sodium Dynamics of the Bacterial Flagellar Motor(Molecular Motors I,Oral Presentation,The Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.1	0
31	1SA-01 Theoretical and experimental approaches to analyze the mechanism of rotational switching in bacterial flagellar motor(1SA Dynamics and Robustness in Biological networks,The 49th Annual) Tj ETQq1 1 0.784314 rgBT /Overlock	0.1	0
32	1K1512 Biotinylation of the Flagellar Hook in <i>E. coli</i> (Cell biology 1,The 49th Annual Meeting of the Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.1	0
33	1P185 1B1420 Conformational Spread as a Mechanism for Cooperativity in the Bacterial Flagellar Switch-from structure to dynamics(Molecular motor,Oral Presentations,The 48th Annual Meeting of) Tj ETQq1 1 0.784314 rgBT /Over	0.1	0
34	3P179 Discrete steps in fast bacterial flagellar rotation detected by back-scattering microscopy(Molecular motor,The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsurei, 2010, 50, S176.	0.1	0
35	Signal-dependent turnover of the bacterial flagellar switch protein FliM. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11347-11351.	7.1	176
36	A simple backscattering microscope for fast tracking of biological molecules. Review of Scientific Instruments, 2010, 81, 113704.	1.3	38

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37	A molecular brake, not a clutch, stops the <i>Rhodobacter sphaeroides</i> flagellar motor. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11582-11587.	7.1	71
38	An introduction to the physics of the bacterial flagellar motor: a nanoscale rotary electric motor. Contemporary Physics, 2009, 50, 617-632.	1.8	17
39	Model Studies of the Dynamics of Bacterial Flagellar Motors. Biophysical Journal, 2009, 96, 3154-3167.	0.5	22
40	3P-143 Steps in fast flagellar rotation(Molecular motor,The 47th Annual Meeting of the Biophysical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.1	0
41	Bacterial flagellar motor. Quarterly Reviews of Biophysics, 2008, 41, 103-132.	5.7	420
42	Torque-Speed Relationships of Na ⁺ -driven Chimeric Flagellar Motors in Escherichia coli. Journal of Molecular Biology, 2008, 376, 1251-1259.	4.2	76
43	How Bacteria Change Gear. Science, 2008, 320, 1599-1600.	12.6	6
44	3P-133 Step detection of flagellar rotation at high temporal and spatial resolution(The 46th Annual) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.1	0
45	2S3-6 Torque, Speed and Steps of the Bacterial Flagellar Motor(2S3 Structure and functional) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	0.1	0
46	Nonequivalence of Membrane Voltage and Ion-Gradient as Driving Forces for the Bacterial Flagellar Motor at Low Load. Biophysical Journal, 2007, 93, 294-302.	0.5	93
47	2P569 Structural analysis of a DNA tetrahedron by electron cryomicroscopy(53. Bioengineering,Poster) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	0.1	0
48	Stoichiometry and turnover in single, functioning membrane protein complexes. Nature, 2006, 443, 355-358.	27.8	559
49	The maximum number of torque-generating units in the flagellar motor of Escherichia coli is at least 11. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8066-8071.	7.1	254
50	Torque-speed relationship of the bacterial flagellar motor. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1260-1265.	7.1	103
51	Direct observation of steps in rotation of the bacterial flagellar motor. Nature, 2005, 437, 916-919.	27.8	309
52	Rapid rotation of micron and submicron dielectric particles measured using optical tweezers. Journal of Modern Optics, 2003, 50, 1539-1554.	1.3	36
53	Rapid rotation of micron and submicron dielectric particles measured using optical tweezers. Journal of Modern Optics, 2003, 50, 1539-1554.	1.3	5
54	Torque-generating units of the flagellar motor of Escherichia coli have a high duty ratio. Nature, 2000, 403, 444-447.	27.8	244

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55	Torque Generated by the Flagellar Motor of Escherichia coli while Driven Backward. Biophysical Journal, 1999, 76, 580-587.	0.5	77