Richard M Berry

List of Publications by Year in descending order

55 papers	3,696 citations	218381 26 h-index	233125 45 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. Nature Microbiology, 2021, 6, 712-721.	5.9	61
2	Distinct chemotactic behavior in the original Escherichia coli K-12 depending on forward-and-backward swimming, not on run-tumble movements. Scientific Reports, 2020, 10, 15887.	1.6	10
3	Motile ghosts of the halophilic archaeon, <i>Haloferax volcanii</i>. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26766-26772.	3.3	6
4	Cryo-EM structures provide insight into how E. coli F1Fo ATP synthase accommodates symmetry mismatch. Nature Communications, 2020, 11, 2615.	5.8	85
5	Assembly and Dynamics of the Bacterial Flagellum. Annual Review of Microbiology, 2020, 74, 181-200.	2.9	42
6	Load-dependent adaptation near zero load in the bacterial flagellar motor. Journal of the Royal Society Interface, 2019, 16, 20190300.	1.5	16
7	A multi-mode digital holographic microscope. Review of Scientific Instruments, 2019, 90, 023705.	0.6	12
8	Simultaneous Tracking of Pseudomonas aeruginosa Motility in Liquid and at the Solid-Liquid Interface Reveals Differential Roles for the Flagellar Stators. MSystems, 2019, 4, .	1.7	16
9	Imaging of Single Dye-Labeled Chemotaxis Proteins in Live Bacteria Using Electroporation. Methods in Molecular Biology, 2018, 1729, 233-246.	0.4	1
10	Subunit Exchange in Protein Complexes. Journal of Molecular Biology, 2018, 430, 4557-4579.	2.0	27
11	Detergent-free Ultrafast Reconstitution of Membrane Proteins into Lipid Bilayers Using Fusogenic Complementary-charged Proteoliposomes.. Journal of Visualized Experiments, 2018, , .	0.2	2
12	Speed of the bacterial flagellar motor near zero load depends on the number of stator units. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11603-11608.	3.3	30
13	Catch bond drives stator mechanosensitivity in the bacterial flagellar motor. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12952-12957.	3.3	78
14	A Simple low-cost device enables four epi-illumination techniques on standard light microscopes. Scientific Reports, 2016, 6, 20729.	1.6	7
15	Single-molecule imaging of electroporated dye-labelled CheY in live<i>Escherichia coli</i>. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150492.	1.8	12
16	The Limiting Speed of the Bacterial Flagellar Motor. Biophysical Journal, 2016, 111, 557-564.	0.2	17
17	Mutations targeting the plugâ€domain of the <scp><i>S</i></scp><i>hewanella oneidensis</i> protonâ€driven stator allow swimming at increased viscosity and under anaerobic conditions. Molecular Microbiology, 2016, 102, 925-938.	1.2	10
18	A modular platform for one-step assembly of multi-component membrane systems by fusion of charged proteoliposomes. Nature Communications, 2016, 7, 13025.	5.8	28

#	ARTICLE	IF	CITATIONS
19	Domain-swap polymerization drives the self-assembly of the bacterial flagellar motor. Nature Structural and Molecular Biology, 2016, 23, 197-203.	3.6	48
20	Comparison between single-molecule and X-ray crystallography data on yeast F1-ATPase. Scientific Reports, 2015, 5, 8773.	1.6	17
21	Dual stator dynamics in the <scp><i>S</i></scp><i>hewanella oneidensis</i>â€…<scp>MR</scp>â€1 flagellar motor. Molecular Microbiology, 2015, 96, 993-1001.	1.2	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.	3.3	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.	2.6	98
24	Stoichiometry and Turnover of the Bacterial Flagellar Switch Protein FliN. MBio, 2014, 5, e01216-14.	1.8	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.	3.3	28
26	Quantification of flagellar motor stator dynamics through <i>in vivo</i> protonâ€motive force control. Molecular Microbiology, 2013, 87, 338-347.	1.2	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.	3.3	51
28	Load-Dependent Assembly of the Bacterial Flagellar Motor. MBio, 2013, 4, .	1.8	166
29	Flagellar Hook Flexibility Is Essential for Bundle Formation in Swimming Escherichia coli Cells. Journal of Bacteriology, 2012, 194, 3495-3501.	1.0	71
30	1A1534 Sodium Dynamics of the Bacterial Flagellar Motor(Molecular Motors I,Oral Presentation,The) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.0	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	0.0	0
32	1K1512 Biotinylation of the Flagellar Hook in E. coil(Cell biology 1,The 49th Annual Meeting of the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.0	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 /Overlo	0.0	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 Butsuri, 2010, 50, S176.	0.0	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.	3.3	176
36	A simple backscattering microscope for fast tracking of biological molecules. Review of Scientific Instruments, 2010, 81, 113704.	0.6	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.	3.3	71
38	An introduction to the physics of the bacterial flagellar motor: a nanoscale rotary electric motor. Contemporary Physics, 2009, 50, 617-632.	0.8	17
39	Model Studies of the Dynamics of Bacterial Flagellar Motors. Biophysical Journal, 2009, 96, 3154-3167.	0.2	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	0.0	0
41	Bacterial flagellar motor. Quarterly Reviews of Biophysics, 2008, 41, 103-132.	2.4	420
42	Torqueâ€“Speed Relationships of Na+-driven Chimeric Flagellar Motors in Escherichia coli. Journal of Molecular Biology, 2008, 376, 1251-1259.	2.0	76
43	How Bacteria Change Gear. Science, 2008, 320, 1599-1600.	6.0	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	0.0	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 T	0.0	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.	0.2	93
47	2P569 Structural analysis of a DNA tetrahedron by electron cryomicroscopy(53. Bioengineering,Poster) Tj ETQq1 1 0.784314 rgBT /Ov	0.0	0
48	Stoichiometry and turnover in single, functioning membrane protein complexes. Nature, 2006, 443, 355-358.	13.7	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.	3.3	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.	3.3	103
51	Direct observation of steps in rotation of the bacterial flagellar motor. Nature, 2005, 437, 916-919.	13.7	309
52	Rapid rotation of micron and submicron dielectric particles measured using optical tweezers. Journal of Modern Optics, 2003, 50, 1539-1554.	0.6	36
53	Torque-generating units of the flagellar motor of Escherichia coli have a high duty ratio. Nature, 2000, 403, 444-447.	13.7	244
54	Torque Generated by the Flagellar Motor of Escherichia coli while Driven Backward. Biophysical Journal, 1999, 76, 580-587.	0.2	77

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55	Rapid rotation of micron and submicron dielectric particles measured using optical tweezers. , 0, .		5