David F Blair

List of Publications by Year
in descending order

44 papers	4,613 citations	126907 33 h-index	233421 45 g-index
46 all docs	46 docs citations	46 times ranked	1943 citing authors

#	Article	IF	Citations
1	Control of membrane barrier during bacterial type-III protein secretion. Nature Communications, 2021, 12, 3999.	12.8	12
2	Allosteric Priming of E.Âcoli CheY by the Flagellar Motor Protein FliM. Biophysical Journal, 2020, 119, 1108-1122.	0.5	9
3	Organization of the Flagellar Switch Complex of Bacillus subtilis. Journal of Bacteriology, 2019, 201, .	2.2	18
4	Typeâ€ĐIII secretion pore formed by flagellar protein FliP. Molecular Microbiology, 2018, 107, 94-103.	2.5	30
5	Co-Folding of a FliF-FliG Split Domain Forms the Basis of the MS:C Ring Interface within the Bacterial Flagellar Motor. Structure, 2017, 25, 317-328.	3.3	56
6	Mechanism of typeâ€‹<scp>III</scp> protein secretion: Regulation of <scp>F</scp>lh<scp>A</scp> conformation by a functionally critical chargedâ€residue cluster. Molecular Microbiology, 2017, 104, 234-249.	2.5	57
7	Architecture of the Flagellar Switch Complex of Escherichia coli : Conformational Plasticity of FliG and Implications for Adaptive Remodeling. Journal of Molecular Biology, 2017, 429, 1305-1320.	4.2	28
8	Biogenesis of the Flagellar Switch Complex in Escherichia coli: Formation of Sub-Complexes Independently of the Basal-Body MS-Ring. Journal of Molecular Biology, 2017, 429, 2353-2359.	4.2	7
9	Function of the Histone-Like Protein H-NS in Motility of Escherichia coli: Multiple Regulatory Roles Rather than Direct Action at the Flagellar Motor. Journal of Bacteriology, 2015, 197, 3110-3120.	2.2	22
10	Loose coupling in the bacterial flagellar motor. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4755-4760.	7.1	14
11	Adjusting the Spokes of the Flagellar Motor with the DNA-Binding Protein H-NS. Journal of Bacteriology, 2011, 193, 5914-5922.	2.2	17
12	A molecular mechanism of direction switching in the flagellar motor of <i>Escherichia coli</i>. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17171-17176.	7.1	86
13	Architecture of the flagellar rotor. EMBO Journal, 2011, 30, 2962-2971.	7.8	91
14	Subunit Organization and Reversal-associated Movements in the Flagellar Switch of Escherichia coli. Journal of Biological Chemistry, 2010, 285, 675-684.	3.4	34
15	Chemotaxis signaling protein CheY binds to the rotor protein FliN to control the direction of flagellar rotation in <i>Escherichia coli</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9370-9375.	7.1	159
16	The c-di-GMP Binding Protein YcgR Controls Flagellar Motor Direction and Speed to Affect Chemotaxis by a â€œBackstop Brakeâ€• Mechanism. Molecular Cell, 2010, 38, 128-139.	9.7	389
17	Energy source of flagellar typeâ€‰III secretion. Nature, 2008, 451, 489-492.	27.8	289
18	Membrane Segment Organization in the Stator Complex of the Flagellar Motor: Implications for Proton Flow and Proton-Induced Conformational Change. Biochemistry, 2008, 47, 11332-11339.	2.5	62

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19	Mutational Analysis of the Flagellar Protein FliG: Sites of Interaction with FliM and Implications for Organization of the Switch Complex. Journal of Bacteriology, 2007, 189, 305-312.	2.2	80
20	Fine Structure of a Fine Machine. Journal of Bacteriology, 2006, 188, 7033-7035.	2.2	7
21	Roles of Charged Residues of Rotor and Stator in Flagellar Rotation: Comparative Study using H + -Driven and Na + -Driven Motors in Escherichia coli. Journal of Bacteriology, 2006, 188, 1466-1472.	2.2	86
22	Structure of FliM provides insight into assembly of the switch complex in the bacterial flagella motor. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11886-11891.	7.1	101
23	Mutational Analysis of the Flagellar Rotor Protein FliN: Identification of Surfaces Important for Flagellar Assembly and Switching. Journal of Bacteriology, 2006, 188, 5240-5248.	2.2	47
24	Organization of FliN Subunits in the Flagellar Motor of Escherichia coli. Journal of Bacteriology, 2006, 188, 2502-2511.	2.2	54
25	Crystal Structure of the Flagellar Rotor Protein FliN from Thermotoga maritima. Journal of Bacteriology, 2005, 187, 2890-2902.	2.2	117
26	FliG Subunit Arrangement in the Flagellar Rotor Probed by Targeted Cross-Linking. Journal of Bacteriology, 2005, 187, 5640-5647.	2.2	45
27	Arrangement of Core Membrane Segments in the MotA/MotB Proton-Channel Complex ofEscherichia coliâ€. Biochemistry, 2004, 43, 35-45.	2.5	132
28	Solubilization and Purification of the MotA/MotB Complex ofEscherichia coliâ€. Biochemistry, 2004, 43, 26-34.	2.5	164
29	The Bacterial Flagellar Motor: Structure and Function of a Complex Molecular Machine. International Review of Cytology, 2004, 233, 93-134.	6.2	206
30	Flagellar movement driven by proton translocation. FEBS Letters, 2003, 545, 86-95.	2.8	192
31	Crystal structure of the middle and C-terminal domains of the flagellar rotor protein FliG. EMBO Journal, 2002, 21, 3225-3234.	7.8	127
32	Conformational Change in the Stator of the Bacterial Flagellar Motorâ€. Biochemistry, 2001, 40, 13041-13050.	2.5	225
33	Targeted Disulfide Cross-Linking of the MotB Protein ofEscherichiacoli:Â Evidence for Two H+Channels in the Stator Complexâ€. Biochemistry, 2001, 40, 13051-13059.	2.5	123
34	Structure of the C-terminal domain of FliG, a component of the rotor in the bacterial flagellar motor. Nature, 1999, 400, 472-475.	27.8	105
35	Function of Proline Residues of MotA in Torque Generation by the Flagellar Motor of Escherichia coli. Journal of Bacteriology, 1999, 181, 3542-3551.	2.2	83
36	Function of Protonatable Residues in the Flagellar Motor of <i>Escherichia coli</i> : a Critical Role for Asp 32 of MotB. Journal of Bacteriology, 1998, 180, 2729-2735.	2.2	207

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37	Domain Analysis of the FliM Protein of Escherichia coli. Journal of Bacteriology, 1998, 180, 5580-5590.	2.2	58
38	Charged residues of the rotor protein FliG essential for torque generation in the flagellar motor of Escherichia coli. Journal of Molecular Biology, 1997, 266, 733-744.	4.2	149
39	Residues of the cytoplasmic domain of MotA essential for torque generation in the bacterial flagellar motor. Journal of Molecular Biology, 1997, 273, 428-439.	4.2	135
40	Motility Protein Complexes in the Bacterial Flagellar Motor. Journal of Molecular Biology, 1996, 261, 209-221.	4.2	121
41	Tryptophan-scanning mutagenesis of MotB, an integral membrane protein essential for flagellar rotation in Escherichia coli. Biochemistry, 1995, 34, 9166-9171.	2.5	117
42	Membrane Topology of the MotA Protein ofEscherichia coil. Journal of Molecular Biology, 1995, 251, 237-242.	4.2	126
43	Mutations in the MotA protein of Escherichia coli reveal domains critical for proton conduction. Journal of Molecular Biology, 1991, 221, 1433-1442.	4.2	97
44	The MotA protein of E. coli is a proton-conducting component of the flagellar motor. Cell, 1990, 60, 439-449.	28.9	316