

David F Blair

List of Publications by Year in descending order

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44
papers

4,613
citations

126901

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233409

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46
times ranked

1943
citing authors

#	ARTICLE	IF	CITATIONS
1	The c-di-GMP Binding Protein YcgR Controls Flagellar Motor Direction and Speed to Affect Chemotaxis by a "Backstop Brake" Mechanism. <i>Molecular Cell</i> , 2010, 38, 128-139.	9.7	389
2	The MotA protein of <i>E. coli</i> is a proton-conducting component of the flagellar motor. <i>Cell</i> , 1990, 60, 439-449.	28.9	316
3	Energy source of flagellar type III secretion. <i>Nature</i> , 2008, 451, 489-492.	27.8	289
4	Conformational Change in the Stator of the Bacterial Flagellar Motor. <i>Biochemistry</i> , 2001, 40, 13041-13050.	2.5	225
5	Function of Protonatable Residues in the Flagellar Motor of <i>Escherichia coli</i> : a Critical Role for Asp 32 of MotB. <i>Journal of Bacteriology</i> , 1998, 180, 2729-2735.	2.2	207
6	The Bacterial Flagellar Motor: Structure and Function of a Complex Molecular Machine. <i>International Review of Cytology</i> , 2004, 233, 93-134.	6.2	206
7	Flagellar movement driven by proton translocation. <i>FEBS Letters</i> , 2003, 545, 86-95.	2.8	192
8	Solubilization and Purification of the MotA/MotB Complex of <i>Escherichia coli</i> . <i>Biochemistry</i> , 2004, 43, 26-34.	2.5	164
9	Chemotaxis signaling protein CheY binds to the rotor protein FliN to control the direction of flagellar rotation in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9370-9375.	7.1	159
10	Charged residues of the rotor protein FliG essential for torque generation in the flagellar motor of <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1997, 266, 733-744.	4.2	149
11	Residues of the cytoplasmic domain of MotA essential for torque generation in the bacterial flagellar motor. <i>Journal of Molecular Biology</i> , 1997, 273, 428-439.	4.2	135
12	Arrangement of Core Membrane Segments in the MotA/MotB Proton-Channel Complex of <i>Escherichia coli</i> . <i>Biochemistry</i> , 2004, 43, 35-45.	2.5	132
13	Crystal structure of the middle and C-terminal domains of the flagellar rotor protein FliG. <i>EMBO Journal</i> , 2002, 21, 3225-3234.	7.8	127
14	Membrane Topology of the MotA Protein of <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1995, 251, 237-242.	4.2	126
15	Targeted Disulfide Cross-Linking of the MotB Protein of <i>Escherichia coli</i> : Evidence for Two H ⁺ Channels in the Stator Complex. <i>Biochemistry</i> , 2001, 40, 13051-13059.	2.5	123
16	Motility Protein Complexes in the Bacterial Flagellar Motor. <i>Journal of Molecular Biology</i> , 1996, 261, 209-221.	4.2	121
17	Tryptophan-scanning mutagenesis of MotB, an integral membrane protein essential for flagellar rotation in <i>Escherichia coli</i> . <i>Biochemistry</i> , 1995, 34, 9166-9171.	2.5	117
18	Crystal Structure of the Flagellar Rotor Protein FliN from <i>Thermotoga maritima</i> . <i>Journal of Bacteriology</i> , 2005, 187, 2890-2902.	2.2	117

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19	Structure of the C-terminal domain of FliG, a component of the rotor in the bacterial flagellar motor. <i>Nature</i> , 1999, 400, 472-475.	27.8	105
20	Structure of FliM provides insight into assembly of the switch complex in the bacterial flagella motor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11886-11891.	7.1	101
21	Mutations in the MotA protein of <i>Escherichia coli</i> reveal domains critical for proton conduction. <i>Journal of Molecular Biology</i> , 1991, 221, 1433-1442.	4.2	97
22	Architecture of the flagellar rotor. <i>EMBO Journal</i> , 2011, 30, 2962-2971.	7.8	91
23	Roles of Charged Residues of Rotor and Stator in Flagellar Rotation: Comparative Study using H ⁺ -Driven and Na ⁺ -Driven Motors in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2006, 188, 1466-1472.	2.2	86
24	A molecular mechanism of direction switching in the flagellar motor of <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17171-17176.	7.1	86
25	Function of Proline Residues of MotA in Torque Generation by the Flagellar Motor of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1999, 181, 3542-3551.	2.2	83
26	Mutational Analysis of the Flagellar Protein FliG: Sites of Interaction with FliM and Implications for Organization of the Switch Complex. <i>Journal of Bacteriology</i> , 2007, 189, 305-312.	2.2	80
27	Membrane Segment Organization in the Stator Complex of the Flagellar Motor: Implications for Proton Flow and Proton-Induced Conformational Change. <i>Biochemistry</i> , 2008, 47, 11332-11339.	2.5	62
28	Domain Analysis of the FliM Protein of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1998, 180, 5580-5590.	2.2	58
29	Mechanism of type III protein secretion: Regulation of FliH^A conformation by a functionally critical charged residue cluster. <i>Molecular Microbiology</i> , 2017, 104, 234-249.	2.5	57
30	Co-Folding of a FliF-FliG Split Domain Forms the Basis of the MS:C Ring Interface within the Bacterial Flagellar Motor. <i>Structure</i> , 2017, 25, 317-328.	3.3	56
31	Organization of FliN Subunits in the Flagellar Motor of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2006, 188, 2502-2511.	2.2	54
32	Mutational Analysis of the Flagellar Rotor Protein FliN: Identification of Surfaces Important for Flagellar Assembly and Switching. <i>Journal of Bacteriology</i> , 2006, 188, 5240-5248.	2.2	47
33	FliG Subunit Arrangement in the Flagellar Rotor Probed by Targeted Cross-Linking. <i>Journal of Bacteriology</i> , 2005, 187, 5640-5647.	2.2	45
34	Subunit Organization and Reversal-associated Movements in the Flagellar Switch of <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 675-684.	3.4	34
35	Type III secretion pore formed by flagellar protein FliP. <i>Molecular Microbiology</i> , 2018, 107, 94-103.	2.5	30
36	Architecture of the Flagellar Switch Complex of <i>Escherichia coli</i> : Conformational Plasticity of FliG and Implications for Adaptive Remodeling. <i>Journal of Molecular Biology</i> , 2017, 429, 1305-1320.	4.2	28

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37	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
38	Organization of the Flagellar Switch Complex of Bacillus subtilis. Journal of Bacteriology, 2019, 201, .	2.2	18
39	Adjusting the Spokes of the Flagellar Motor with the DNA-Binding Protein H-NS. Journal of Bacteriology, 2011, 193, 5914-5922.	2.2	17
40	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
41	Control of membrane barrier during bacterial type-III protein secretion. Nature Communications, 2021, 12, 3999.	12.8	12
42	Allosteric Priming of E.Âcoli CheY by the Flagellar Motor Protein FliM. Biophysical Journal, 2020, 119, 1108-1122.	0.5	9
43	Fine Structure of a Fine Machine. Journal of Bacteriology, 2006, 188, 7033-7035.	2.2	7
44	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