Yoshiyuki Sowa

List of Publications by Year
in descending order

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39 papers	1,462 citations	516215 16 h-index	454577 30 g-index
45 all docs	45 docs citations	45 times ranked	1142 citing authors

#	Article	IF	Citations
1	Bayesian-based decipherment of in-depth information in bacterial chemical sensing beyond pleasant/unpleasant responses. Scientific Reports, 2022, 12, 2965.	1.6	1
2	Novel Amiloride Derivatives That Inhibit Bacterial Motility across Multiple Strains and Stator Types. Journal of Bacteriology, 2021, 203, e0036721.	1.0	6
3	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
4	Coupling Ion Specificity of the Flagellar Stator Proteins MotA1/MotB1 of Paenibacillus sp. TCA20. Biomolecules, 2020, 10, 1078.	1.8	3
5	High pressure inhibits signaling protein binding to the flagellar motor and bacterial chemotaxis through enhanced hydration. Scientific Reports, 2020, 10, 2351.	1.6	12
6	Sodiumâ€powered stators of the bacterial flagellar motor can generate torque in the presence of phenamil with mutations near the peptidoglycanâ€binding region. Molecular Microbiology, 2019, 111, 1689-1699.	1.2	20
7	Dimerization site 2 of the bacterial DNA-binding protein H-NS is required for gene silencing and stiffened nucleoprotein filament formation. Journal of Biological Chemistry, 2018, 293, 9496-9505.	1.6	21
8	Measurements of the Rotation of the Flagellar Motor by Bead Assay. Methods in Molecular Biology, 2017, 1593, 185-192.	0.4	4
9	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
10	Substrate-dependent dynamics of the multidrug efflux transporter AcrB of Escherichia coli. Scientific Reports, 2016, 6, 21909.	1.6	24
11	Bacterial Flagellar Motor Switch in Response to CheY-P Regulation and Motor Structural Alterations. Biophysical Journal, 2016, 110, 1411-1420.	0.2	12
12	Liquid-Based Iterative Recombineering Method Tolerant to Counter-Selection Escapes. PLoS ONE, 2015, 10, e0119818.	1.1	8
13	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
14	Populational Heterogeneity vs. Temporal Fluctuation in Escherichia coli Flagellar Motor Switching. Biophysical Journal, 2013, 105, 2123-2129.	0.2	11
15	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
16	High Hydrostatic Pressure Induces Counterclockwise to Clockwise Reversals of the Escherichia coli Flagellar Motor. Journal of Bacteriology, 2013, 195, 1809-1814.	1.0	39
17	1A1534 Sodium Dynamics of the Bacterial Flagellar Motor(Molecular Motors I,Oral Presentation,The) Tj ETQq1 1 0.784314 rgBT /Overlo	0.0	0
18	Microscopic Analysis of Bacterial Motility at High Pressure. Biophysical Journal, 2012, 102, 1872-1880.	0.2	37

#	ARTICLE	IF	CITATIONS
19	Steps and Bumps: Precision Extraction of Discrete States of Molecular Machines. Biophysical Journal, 2011, 101, 477-485.	0.2	29
20	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
21	A simple backscattering microscope for fast tracking of biological molecules. Review of Scientific Instruments, 2010, 81, 113704.	0.6	38
22	Steps in the Bacterial Flagellar Motor. PLoS Computational Biology, 2009, 5, e1000540.	1.5	26
23	The Bacterial Flagellar Motor. , 2009, , 105-142.		2
24	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
25	Single-Molecule Studies of Rotary Molecular Motors. , 2009, , 183.		2
26	Bacterial flagellar motor. Quarterly Reviews of Biophysics, 2008, 41, 103-132.	2.4	420
27	Torqueâ€"Speed Relationships of Na+-driven Chimeric Flagellar Motors in Escherichia coli. Journal of Molecular Biology, 2008, 376, 1251-1259.	2.0	76
28	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
29	3P176 Pressure-induced reversal in the rotational direction of the bacterial flagellar motor(Molecular motors,Oral Presentations). Seibutsu Butsuri, 2007, 47, S247.	0.0	0
30	3P175 Torque generation of Na^+-driven chimeric flagellar motor with PomA mutant in Escherichia coli(Molecular motors,Oral Presentations). Seibutsu Butsuri, 2007, 47, S246.	0.0	0
31	Visualization of Functional Rotor Proteins of the Bacterial Flagellar Motor in the Cell Membrane. Journal of Molecular Biology, 2007, 367, 692-701.	2.0	35
32	1P281 Torque-speed relationship of Na^+-driven chimeric flagellar motor in Escherichia coli(9.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 2006, 46, S217.	0.0	0
33	2P240 How does high pressure affect on the bacterial motility?(39. Cell motility,Poster) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 1	0.0	1
34	Direct observation of steps in rotation of the bacterial flagellar motor. Nature, 2005, 437, 916-919.	13.7	309
35	Non-contact surface force microscopy for molecular interaction study. E-Journal of Surface Science and Nanotechnology, 2005, 3, 46-50.	0.1	0
36	Noncontact Surface Force Microscopy of Protein Molecules. ChemPhysChem, 2003, 4, 1361-1364.	1.0	2

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37	Torqueâ€“speed Relationship of the Na+-driven Flagellar Motor of Vibrio alginolyticus. Journal of Molecular Biology, 2003, 327, 1043-1051.	2.0	130
38	The Systematic Substitutions Around the Conserved Charged Residues of the Cytoplasmic Loop of Na+-driven Flagellar Motor Component PomA. Journal of Molecular Biology, 2002, 320, 403-413.	2.0	60
39	Non-Contact Electrostatic Surface Force Imaging of Single Protein Filaments using Intermolecular Force Microscopy. Single Molecules, 2001, 2, 183-190.	1.7	11