Yoshiyuki Sowa

List of Publications by Year
in descending order

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	Bacterial flagellar motor. Quarterly Reviews of Biophysics, 2008, 41, 103-132.	2.4	420
2	Direct observation of steps in rotation of the bacterial flagellar motor. Nature, 2005, 437, 916-919.	13.7	309
3	Torqueâ€“speed Relationship of the Na+-driven Flagellar Motor of Vibrio alginolyticus. Journal of Molecular Biology, 2003, 327, 1043-1051.	2.0	130
4	Torqueâ€“Speed Relationships of Na+-driven Chimeric Flagellar Motors in Escherichia coli. Journal of Molecular Biology, 2008, 376, 1251-1259.	2.0	76
5	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
6	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
7	High Hydrostatic Pressure Induces Counterclockwise to Clockwise Reversals of the Escherichia coli Flagellar Motor. Journal of Bacteriology, 2013, 195, 1809-1814.	1.0	39
8	A simple backscattering microscope for fast tracking of biological molecules. Review of Scientific Instruments, 2010, 81, 113704.	0.6	38
9	Microscopic Analysis of Bacterial Motility at High Pressure. Biophysical Journal, 2012, 102, 1872-1880.	0.2	37
10	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
11	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
12	Steps and Bumps: Precision Extraction of Discrete States of Molecular Machines. Biophysical Journal, 2011, 101, 477-485.	0.2	29
13	Hybrid-fuel bacterial flagellar motors inEscherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3436-3441.	3.3	28
14	Steps in the Bacterial Flagellar Motor. PLoS Computational Biology, 2009, 5, e1000540.	1.5	26
15	Substrate-dependent dynamics of the multidrug efflux transporter AcrB of Escherichia coli. Scientific Reports, 2016, 6, 21909.	1.6	24
16	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
17	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
18	Bacterial Flagellar Motor Switch in Response to CheY-P Regulation and Motor Structural Alterations. Biophysical Journal, 2016, 110, 1411-1420.	0.2	12

#	Article	IF	Citations
19	High pressure inhibits signaling protein binding to the flagellar motor and bacterial chemotaxis through enhanced hydration. Scientific Reports, 2020, 10, 2351.	1.6	12
20	Non-Contact Electrostatic Surface Force Imaging of Single Protein Filaments using Intermolecular Force Microscopy. Single Molecules, 2001, 2, 183-190.	1.7	11
21	Populational Heterogeneity vs. Temporal Fluctuation in Escherichia coli Flagellar Motor Switching. Biophysical Journal, 2013, 105, 2123-2129.	0.2	11
22	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
23	Liquid-Based Iterative Recombineering Method Tolerant to Counter-Selection Escapes. PLoS ONE, 2015, 10, e0119818.	1.1	8
24	Novel Amiloride Derivatives That Inhibit Bacterial Motility across Multiple Strains and Stator Types. Journal of Bacteriology, 2021, 203, e0036721.	1.0	6
25	Measurements of the Rotation of the Flagellar Motor by Bead Assay. Methods in Molecular Biology, 2017, 1593, 185-192.	0.4	4
26	Coupling Ion Specificity of the Flagellar Stator Proteins MotA1/MotB1 of Paenibacillus sp. TCA20. Biomolecules, 2020, 10, 1078.	1.8	3
27	Noncontact Surface Force Microscopy of Protein Molecules. ChemPhysChem, 2003, 4, 1361-1364.	1.0	2
28	The Bacterial Flagellar Motor. , 2009, , 105-142.		2
29	Single-Molecule Studies of Rotary Molecular Motors. , 2009, , 183.		2
30	2P240 How does high pressure affect on the bacterial motility?(39. Cell motility,Poster) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (Se	0.0	1
31	Bayesian-based decipherment of in-depth information in bacterial chemical sensing beyond pleasant/unpleasant responses. Scientific Reports, 2022, 12, 2965.	1.6	1
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	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
34	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
35	3P-133 Step detection of flagellar rotation at high temporal and spatial resolution(The 46th Annual) Tj ETQq1 1 0.784314 rgBT /Overl	0.0	0
36	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

#	Article	IF	Citations
37	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
38	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
39	Non-contact surface force microscopy for molecular interaction study. E-Journal of Surface Science and Nanotechnology, 2005, 3, 46-50.	0.1	0