

Akihiko Ishijima

List of Publications by Year in descending order

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41
papers

3,593
citations

218592

26
h-index

289141

40
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41
all docs

41
docs citations

41
times ranked

2371
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous Observation of Individual ATPase and Mechanical Events by a Single Myosin Molecule during Interaction with Actin. <i>Cell</i> , 1998, 92, 161-171.	13.5	494
2	Direct measurement of stiffness of single actin filaments with and without tropomyosin by in vitro nanomanipulation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 12962-12966.	3.3	451
3	Direct observation of steps in rotation of the bacterial flagellar motor. <i>Nature</i> , 2005, 437, 916-919.	13.7	309
4	Sub-piconewton force fluctuations of actomyosin in vitro. <i>Nature</i> , 1991, 352, 301-306.	13.7	277
5	Multiple- and single-molecule analysis of the actomyosin motor by nanometer-piconewton manipulation with a microneedle: unitary steps and forces. <i>Biophysical Journal</i> , 1996, 70, 383-400.	0.2	229
6	Single-Molecule Analysis of the Actomyosin Motor Using Nano-Manipulation. <i>Biochemical and Biophysical Research Communications</i> , 1994, 199, 1057-1063.	1.0	210
7	Single molecule nanobioscience. <i>Trends in Biochemical Sciences</i> , 2001, 26, 438-444.	3.7	180
8	Sodium ϵ -dependent dynamic assembly of membrane complexes in sodium ϵ -driven flagellar motors. <i>Molecular Microbiology</i> , 2009, 71, 825-835.	1.2	133
9	Torque ϵ -speed Relationship of the Na ϵ -driven Flagellar Motor of <i>Vibrio alginolyticus</i> . <i>Journal of Molecular Biology</i> , 2003, 327, 1043-1051.	2.0	130
10	Force-Generating Domain of Myosin Motor. <i>Biochemical and Biophysical Research Communications</i> , 1993, 196, 1504-1510.	1.0	115
11	Orientation Dependence of Displacements by a Single One-Headed Myosin Relative to the Actin Filament. <i>Biophysical Journal</i> , 1998, 75, 1886-1894.	0.2	115
12	Charge-reversion mutagenesis of <i>Dictyostelium</i> actin to map the surface recognized by myosin during ATP-driven sliding motion.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 2127-2131.	3.3	83
13	Pico calorimeter for detection of heat produced in an individual brown fat cell. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	78
14	Torque ϵ -Speed Relationships of Na ϵ -driven Chimeric Flagellar Motors in <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 2008, 376, 1251-1259.	2.0	76
15	Single molecule nanomanipulation of biomolecules. <i>Trends in Biotechnology</i> , 2001, 19, 211-216.	4.9	63
16	The Systematic Substitutions Around the Conserved Charged Residues of the Cytoplasmic Loop of Na ϵ -driven Flagellar Motor Component PomA. <i>Journal of Molecular Biology</i> , 2002, 320, 403-413.	2.0	60
17	Exchange of rotor components in functioning bacterial flagellar motor. <i>Biochemical and Biophysical Research Communications</i> , 2010, 394, 130-135.	1.0	55
18	Nano-manipulation of actomyosin molecular motors in vitro: a new working principle. <i>Trends in Biochemical Sciences</i> , 1993, 18, 319-324.	3.7	47

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19	A Kinetic Mechanism for the Fast Movement of Chara Myosin. <i>Journal of Molecular Biology</i> , 2003, 328, 939-950.	2.0	46
20	Coordinated Reversal of Flagellar Motors on a Single Escherichia coli Cell. <i>Biophysical Journal</i> , 2011, 100, 2193-2200.	0.2	43
21	Mechanical analyses of morphological and topological transformation of liposomes. <i>BioSystems</i> , 2003, 71, 93-100.	0.9	42
22	Formation and Maintenance of Tubular Membrane Projections Require Mechanical Force, but their Elongation and Shortening do not Require Additional Force. <i>Journal of Molecular Biology</i> , 2005, 348, 325-333.	2.0	42
23	High Hydrostatic Pressure Induces Counterclockwise to Clockwise Reversals of the Escherichia coli Flagellar Motor. <i>Journal of Bacteriology</i> , 2013, 195, 1809-1814.	1.0	39
24	Temperature Changes in Brown Adipocytes Detected with a Bimaterial Microcantilever. <i>Biophysical Journal</i> , 2014, 106, 2458-2464.	0.2	37
25	Visualization of Functional Rotor Proteins of the Bacterial Flagellar Motor in the Cell Membrane. <i>Journal of Molecular Biology</i> , 2007, 367, 692-701.	2.0	35
26	Direct Imaging of Intracellular Signaling Components That Regulate Bacterial Chemotaxis. <i>Science Signaling</i> , 2014, 7, ra32.	1.6	35
27	Hybrid-fuel bacterial flagellar motors in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3436-3441.	3.3	28
28	Single-Cell <i>E. coli</i> Response to an Instantaneously Applied Chemotactic Signal. <i>Biophysical Journal</i> , 2014, 107, 730-739.	0.2	28
29	Micrometer-Size Vesicle Formation Triggered by UV Light. <i>Langmuir</i> , 2014, 30, 7289-7295.	1.6	21
30	Two methods of temperature control for single-molecule measurements. <i>European Biophysics Journal</i> , 2011, 40, 651-660.	1.2	17
31	Thermosensing Function of the <i>Escherichia coli</i> Redox Sensor Aer. <i>Journal of Bacteriology</i> , 2010, 192, 1740-1743.	1.0	16
32	Modification of the bi-directional sliding movement of actin filaments along native thick filaments isolated from a clam. <i>Journal of Muscle Research and Cell Motility</i> , 1996, 17, 637-646.	0.9	10
33	Accumulated strain mechanism for length determination of thick filaments in skeletal muscle. I. Experimental bases. <i>Journal of Muscle Research and Cell Motility</i> , 1986, 7, 491-500.	0.9	9
34	Morphological and topological transformation of membrane vesicles. <i>Journal of Biological Physics</i> , 2002, 28, 225-235.	0.7	8
35	Velocity-Dependent Actomyosin ATPase Cycle Revealed by In Vitro Motility Assay with Kinetic Analysis. <i>Biophysical Journal</i> , 2012, 103, 711-718.	0.2	7
36	Single Carbon Nanotube-Based Reversible Regulation of Biological Motor Activity. <i>ACS Nano</i> , 2015, 9, 3677-3684.	7.3	7

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37	The Neck Domain of Myosin II Primarily Regulates the Actomyosin Kinetics, not the Stepsize. <i>Journal of Molecular Biology</i> , 2005, 353, 213-221.	2.0	5
38	Formation and maintenance of tubular membrane projections: Experiments and numerical calculations. <i>BioSystems</i> , 2008, 93, 115-119.	0.9	5
39	Temperature Dependences of Torque Generation and Membrane Voltage in the Bacterial Flagellar Motor. <i>Biophysical Journal</i> , 2013, 105, 2801-2810.	0.2	5
40	Local heating of molecular motors using single carbon nanotubes. <i>Biophysical Reviews</i> , 2016, 8, 25-32.	1.5	2
41	Simultaneous Measurement of Individual ATPase and Mechanical Reactions by a Single Myosin Molecule at Work. <i>Optical Review</i> , 1999, 6, 16-23.	1.2	1