Ryota Iino

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Visualization of ATP levels inside single living cells with fluorescence resonance energy transfer-based genetically encoded indicators. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15651-15656.	7.1	884
2	High-Speed Atomic Force Microscopy Reveals Rotary Catalysis of Rotorless F ₁ -ATPase. Science, 2011, 333, 755-758.	12.6	420
3	Ultrafine Membrane Compartments for Molecular Diffusion as Revealed by Single Molecule Techniques. Biophysical Journal, 2004, 86, 4075-4093.	0.5	400
4	Single-molecule imaging analysis of Ras activation in living cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7317-7322.	7.1	359
5	Accumulation of anchored proteins forms membrane diffusion barriers during neuronal polarization. Nature Cell Biology, 2003, 5, 626-632.	10.3	324
6	Single Molecule Imaging of Green Fluorescent Proteins in Living Cells: E-Cadherin Forms Oligomers on the Free Cell Surface. Biophysical Journal, 2001, 80, 2667-2677.	0.5	300
7	GPI-anchored receptor clusters transiently recruit Lyn and GÎ \pm for temporary cluster immobilization and Lyn activation: single-molecule tracking study 1. Journal of Cell Biology, 2007, 177, 717-730.	5.2	292
8	The fence and picket structure of the plasma membrane of live cells as revealed by single molecule techniques (Review). Molecular Membrane Biology, 2003, 20, 13-18.	2.0	187
9	A single-molecule enzymatic assay in a directly accessible femtoliter droplet array. Lab on A Chip, 2010, 10, 3355.	6.0	186
10	Large-scale femtoliter droplet array for digital counting of single biomolecules. Lab on A Chip, 2012, 12, 4986.	6.0	185
11	Rotation and structure of FoF1-ATP synthase. Journal of Biochemistry, 2011, 149, 655-664.	1.7	184
12	Fluorescence Imaging for Monitoring the Colocalization of Two Single Molecules in Living Cells. Biophysical Journal, 2005, 88, 2126-2136.	0.5	154
13	Simple Dark-Field Microscopy with Nanometer Spatial Precision and Microsecond Temporal Resolution. Biophysical Journal, 2010, 98, 2014-2023.	0.5	150
14	Phosphate release in F1-ATPase catalytic cycle follows ADP release. Nature Chemical Biology, 2010, 6, 814-820.	8.0	146
15	Fluctuation Theorem Applied to <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:msub><mml:mi mathvariant="bold">F<mml:mn>1</mml:mn></mml:mi </mml:msub></mml:math> -ATPase. Physical Review Letters, 2010, 104, 218103.	7.8	146
16	F0F1-ATPase/Synthase Is Geared to the Synthesis Mode by Conformational Rearrangement of ϵ Subunit in Response to Proton Motive Force and ADP/ATP Balance. Journal of Biological Chemistry, 2003, 278, 46840-46846.	3.4	144
17	Direct observation of intermediate states during the stepping motion of kinesin-1. Nature Chemical Biology, 2016, 12, 290-297.	8.0	119
18	Evaluation of Multidrug Efflux Pump Inhibitors by a New Method Using Microfluidic Channels. PLoS ONE, 2011, 6, e18547.	2.5	95

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#	Article	IF	CITATIONS
19	Molecular Mechanism of ATP Hydrolysis in F ₁ -ATPase Revealed by Molecular Simulations and Single-Molecule Observations. Journal of the American Chemical Society, 2012, 134, 8447-8454.	13.7	95
20	Mechanical modulation of catalytic power on F1-ATPase. Nature Chemical Biology, 2012, 8, 86-92.	8.0	94
21	Mechanism of Inhibition by C-terminal α-Helices of the ϵ Subunit of Escherichia coli FoF1-ATP Synthase. Journal of Biological Chemistry, 2009, 284, 17457-17464.	3.4	77
22	Correlation between the conformational states of F ₁ -ATPase as determined from its crystal structure and single-molecule rotation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20722-20727.	7.1	71
23	High-speed atomic force microscope combined with single-molecule fluorescence microscope. Review of Scientific Instruments, 2013, 84, 073706.	1.3	65
24	Real-time Monitoring of Conformational Dynamics of the Ϊμ Subunit in F1-ATPase. Journal of Biological Chemistry, 2005, 280, 40130-40134.	3.4	64
25	Mechanism of Lck Recruitment to the T-Cell Receptor Cluster as Studied by Single-Molecule-Fluorescence Video Imaging. ChemPhysChem, 2003, 4, 620-626.	2.1	63
26	Dynamic structural states of ClpB involved in its disaggregation function. Nature Communications, 2018, 9, 2147.	12.8	55
27	A Microfluidic Channel Method for Rapid Drug-Susceptibility Testing of Pseudomonas aeruginosa. PLoS ONE, 2016, 11, e0148797.	2.5	54
28	Structure of a central stalk subunit F of prokaryotic V-type ATPase/synthase from Thermus thermophilus. EMBO Journal, 2005, 24, 3974-3983.	7.8	53
29	Introduction: Molecular Motors. Chemical Reviews, 2020, 120, 1-4.	47.7	53
30	Basic Properties of Rotary Dynamics of the Molecular Motor Enterococcus hirae V1-ATPase. Journal of Biological Chemistry, 2013, 288, 32700-32707.	3.4	51
31	Single-molecule Imaging Analysis of Elementary Reaction Steps of Trichoderma reesei Cellobiohydrolase I (CeI7A) Hydrolyzing Crystalline Cellulose Iα and IIII. Journal of Biological Chemistry, 2014, 289, 14056-14065.	3.4	50
32	Processive chitinase is Brownian monorail operated by fast catalysis after peeling rail from crystalline chitin. Nature Communications, 2018, 9, 3814.	12.8	50
33	A single-cell drug efflux assay in bacteria by using a directly accessible femtoliter droplet array. Lab on A Chip, 2012, 12, 3923.	6.0	48
34	Accurate high-throughput screening based on digital protein synthesis in a massively parallel femtoliter droplet array. Science Advances, 2019, 5, eaav8185.	10.3	48
35	Temperatureâ€sensitive reaction intermediate of F ₁ â€ATPase. EMBO Reports, 2008, 9, 84-90.	4.5	46
36	A single-molecule digital enzyme assay using alkaline phosphatase with a cumarin-based fluorogenic substrate. Analyst, The, 2015, 140, 5065-5073.	3.5	45

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37	Single-molecule Imaging Analysis of Binding, Processive Movement, and Dissociation of Cellobiohydrolase Trichoderma reesei Cel6A and Its Domains on Crystalline Cellulose. Journal of Biological Chemistry, 2016, 291, 22404-22413.	3.4	45
38	Biased Brownian stepping rotation of FoF1-ATP synthase driven by proton motive force. Nature Communications, 2013, 4, 1631.	12.8	41
39	Positive Charge Introduction on the Surface of Thermostabilized PET Hydrolase Facilitates PET Binding and Degradation. ACS Catalysis, 2021, 11, 8550-8564.	11.2	39
40	Stiffness of Î ³ subunit of F1-ATPase. European Biophysics Journal, 2010, 39, 1589-1596.	2.2	38
41	Label-Free Single-Particle Imaging of the Influenza Virus by Objective-Type Total Internal Reflection Dark-Field Microscopy. PLoS ONE, 2012, 7, e49208.	2.5	38
42	Design of a large-scale femtoliter droplet array for single-cell analysis of drug-tolerant and drug-resistant bacteria. Frontiers in Microbiology, 2013, 4, 300.	3.5	38
43	Principal Role of the Arginine Finger in Rotary Catalysis of F1-ATPase. Journal of Biological Chemistry, 2012, 287, 15134-15142.	3.4	37
44	Activation and Stiffness of the Inhibited States of F1-ATPase Probed by Single-molecule Manipulation. Journal of Biological Chemistry, 2010, 285, 11411-11417.	3.4	30
45	High-Speed Angle-Resolved Imaging of a Single Gold Nanorod with Microsecond Temporal Resolution and One-Degree Angle Precision. Analytical Chemistry, 2015, 87, 2079-2086.	6.5	29
46	Single-molecule analysis reveals rotational substeps and chemo-mechanical coupling scheme of Enterococcus hirae V1-ATPase. Journal of Biological Chemistry, 2019, 294, 17017-17030.	3.4	29
47	Single-Nanoparticle Tracking with Angstrom Localization Precision and Microsecond Time Resolution. Biophysical Journal, 2018, 115, 2413-2427.	0.5	28
48	Torque Generation of Enterococcus hirae V-ATPase. Journal of Biological Chemistry, 2014, 289, 31212-31223.	3.4	27
49	Operation mechanism of F _o F ₁ â€adenosine triphosphate synthase revealed by its structure and dynamics. IUBMB Life, 2013, 65, 238-246.	3.4	25
50	High-speed near-field fluorescence microscopy combined with high-speed atomic force microscopy for biological studies. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129325.	2.4	25
51	Rate constants, processivity, and productive binding ratio of chitinase A revealed by single-molecule analysis. Physical Chemistry Chemical Physics, 2018, 20, 3010-3018.	2.8	24
52	Single-Fluorophore Dynamic Imaging in Living Cells. Journal of Fluorescence, 2001, 11, 187-195.	2.5	23
53	Single-molecule Study on the Temperature-sensitive Reaction of F1-ATPase with a Hybrid F1 Carrying a Single β(E190D). Journal of Biological Chemistry, 2009, 284, 23169-23176.	3.4	23
54	A Microfluidic Device for Simple and Rapid Evaluation of Multidrug Efflux Pump Inhibitors. Frontiers in Microbiology, 2012, 3, 40.	3.5	21

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55	A CMOS image sensor with stacked photodiodes for lensless observation system of digital enzyme-linked immunosorbent assay. Japanese Journal of Applied Physics, 2014, 53, 04EL02.	1.5	18
56	Multicolor High-Speed Tracking of Single Biomolecules with Silver, Gold, and Silver–Gold Alloy Nanoparticles. ACS Photonics, 2019, 6, 2870-2883.	6.6	17
57	Rotational mechanism of Enterococcus hirae V1-ATPase by crystal-structure and single-molecule analyses. Current Opinion in Structural Biology, 2015, 31, 49-56.	5.7	16
58	Highly sensitive restriction enzyme assay and analysis: a review. Analytical and Bioanalytical Chemistry, 2008, 391, 2423-2432.	3.7	15
59	Intersubunit coordination and cooperativity in ring-shaped NTPases. Current Opinion in Structural Biology, 2013, 23, 229-234.	5.7	15
60	Rotary catalysis of the stator ring of F1-ATPase. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1732-1739.	1.0	14
61	Motion Capture and Manipulation of a Single Synthetic Molecular Rotor by Optical Microscopy. Angewandte Chemie - International Edition, 2014, 53, 10082-10085.	13.8	14
62	Key Chemical Factors of Arginine Finger Catalysis of F ₁ -ATPase Clarified by an Unnatural Amino Acid Mutation. Biochemistry, 2015, 54, 472-480.	2.5	14
63	Simultaneous Observation of Kinesin-Driven Microtubule Motility and Binding of Adenosine Triphosphate Using Linear Zero-Mode Waveguides. ACS Nano, 2018, 12, 11975-11985.	14.6	14
64	Rotation of artificial rotor axles in rotary molecular motors. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11214-11219.	7.1	13
65	Winding single-molecule double-stranded DNA on a nanometer-sized reel. Nucleic Acids Research, 2012, 40, e151-e151.	14.5	12
66	Complementary Metal–Oxide–Semiconductor Image Sensor with Microchamber Array for Fluorescent Bead Counting. Japanese Journal of Applied Physics, 2012, 51, 02BL01.	1.5	12
67	Single-molecule imaging and manipulation of biomolecular machines and systems. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 241-252.	2.4	12
68	Single-molecule imaging analysis reveals the mechanism of a high-catalytic-activity mutant of chitinase A from Serratia marcescens. Journal of Biological Chemistry, 2020, 295, 1915-1925.	3.4	12
69	Complementary Metal–Oxide–Semiconductor Image Sensor with Microchamber Array for Fluorescent Bead Counting. Japanese Journal of Applied Physics, 2012, 51, 02BL01.	1.5	12
70	Chemomechanical Coupling in Single-Molecule F-Type ATP Synthase. Journal of Bioenergetics and Biomembranes, 2005, 37, 451-454.	2.3	11
71	Subunit rotation in a single F o F 1 -ATP synthase in a living bacterium monitored by FRET. , 2011, , .		11
72	Domain architecture divergence leads to functional divergence in binding and catalytic domains of bacterial and fungal cellobiohydrolases. Journal of Biological Chemistry, 2020, 295, 14606-14617.	3.4	11

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73	Small stepping motion of processive dynein revealed by load-free high-speed single-particle tracking. Scientific Reports, 2020, 10, 1080.	3.3	10
74	Off-axis rotor in Enterococcus hirae V-ATPase visualized by Zernike phase plate single-particle cryo-electron microscopy. Scientific Reports, 2018, 8, 15632.	3.3	9
75	F1-ATPase: a highly coupled reversible rotary motor. Biochemical Society Transactions, 2006, 34, 993-996.	3.4	8
76	Dual-mode lensless imaging device for digital enzyme linked immunosorbent assay. , 2014, , .		8
77	Single Cell Array Enclosed with a Photodegradable Hydrogel in Microwells for Image-Based Cell Classification and Selective Photorelease of Cells. ACS Applied Bio Materials, 2020, 3, 5887-5895.	4.6	8
78	Real-time fluorescence visualization of slow tautomerization of single free-base phthalocyanines under ambient conditions. Chemical Communications, 2014, 50, 9443.	4.1	7
79	Plasmid-Based One-Pot Saturation Mutagenesis and Robot-Based Automated Screening for Protein Engineering. ACS Omega, 2018, 3, 7715-7726.	3.5	7
80	Motion Capture and Manipulation of a Single Synthetic Molecular Rotor by Optical Microscopy. Angewandte Chemie, 2014, 126, 10246-10249.	2.0	6
81	Molecular structure and rotary dynamics of <i> <scp>E</scp>nterococcus hirae</i> <scp>V</scp> ₁ â€ <scp>ATP</scp> ase. IUBMB Life, 2014, 66, 624-630.	3.4	6
82	Crystalline chitin hydrolase is a burnt-bridge Brownian motor. Biophysics and Physicobiology, 2020, 17, 51-58.	1.0	5
83	Single-Molecule Assay of Biological Reaction in Femtoliter Chamber Array. Japanese Journal of Applied Physics, 2009, 48, 08JA04.	1.5	4
84	Large-Scale Femtoliter Droplet Array for Single Cell Efflux Assay of Bacteria. Methods in Molecular Biology, 2018, 1700, 331-341.	0.9	4
85	Label-free monitoring of crystalline chitin hydrolysis by chitinase based on Raman spectroscopy. Analyst, The, 2021, 146, 4087-4094.	3.5	4
86	Combined Approach to Engineer a Highly Active Mutant of Processive Chitinase Hydrolyzing Crystalline Chitin. ACS Omega, 2020, 5, 26807-26816.	3.5	3
87	Chemical-State-Dependent Free Energy Profile from Single-Molecule Trajectories of Biomolecular Motors: Application to Processive Chitinase. Journal of Physical Chemistry B, 2020, 124, 6475-6487.	2.6	3
88	Single-molecule fluorescence imaging of kinesin using linear zero-mode waveguides. , 2016, , .		2
89	Single-Cell Detection and Collection of Persister Bacteria in a Directly Accessible Femtoliter Droplet Array. Methods in Molecular Biology, 2016, 1333, 101-109.	0.9	2
90	Visualization of Functional Structure and Kinetic Dynamics of Cellulases. Advances in Experimental Medicine and Biology, 2018, 1104, 201-217.	1.6	2

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91	The fence and picket structure of the plasma membrane of live cells as revealed by single molecule techniques (Review). Molecular Membrane Biology, 2003, 20, 13-18.	2.0	2
92	Lensless imaging device for digital counting of fluorescent micro-droplet chambers. , 2013, , .		1
93	A CMOS image sensor with low fixed pattern noise suitable for lensless observation system of digital enzyme-linked immunosorbent assay (ELISA). , 2013, , .		1
94	Linear zero mode waveguides for the study of chemo-mechanical coupling mechanism of kinesin. , 2017, , .		1
95	Two Rotary Motors of ATP Synthase. , 0, , 237-255.		0
96	1SM-03 Real-Time Single-Molecular Measurement of Artificial Molecular Rotor(1SM Interdisciplinary) Tj ETQq0 0 C	0 rgBT /Ove 0.1	erlock 10 Tf 0
97	1C1324 Flexural rigidity of dsDNA measured by winding single molecule on a nanometer size bearing(Nucleic acid,The 49th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2011, 51, S34.	0.1	0
98	1L1424 P10 1YE1115 Key mechanism for high efficiency and reversibility of chemomechanical coupling in F_1-ATPase revealed by single-molecule manipulation(Molecular motor 1,Early Research in Biophysics) Tj ETQq0 0	0.rgBT /O	verlock 10 1
99	1L1336 Detection of rotaton of F1-ATPase using high-speed orientational detection of gold nanorod(Molecular motor 1,The 49th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2011, 51, S60.	0.1	0
100	3PT103 Bending stiffness of double-stranded DNA measured by winding single-molecule on a nanometer-sized reel(The 50th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2012, 52, S157-S158.	0.1	0
101	1PS033 Direct observation of H^+-driven rotation of F_0F_1-ATP synthase(The 50th Annual Meeting of) Tj ETQq1	10.7843	14 rgBT /Ov
102	2P160 Single-Molecular Measurement of a Synthetic Molecular Bearing(11. Molecular motor,Poster). Seibutsu Butsuri, 2013, 53, S185.	0.1	0
103	3P321 Development of enzyme screening system for directed evolution based on enzymic activity(28.) Tj ETQq1 Butsuri, 2014, 54, S302.	1 0.78431 0.1	.4 rgBT /Ove 0
104	C3-O-O3Single particle 3D reconstruction of <i>Eh</i> V-ATPase by Zernike phase contrast cryo-electron microscopy equipped with a direct detector. Microscopy (Oxford, England), 2015, 64, i68.1-i68.	1.5	0
105	GPI-anchored receptor clusters transiently recruit Lyn and Gα for temporary cluster immobilization and Lyn activation: single-molecule tracking study 1. Journal of Experimental Medicine, 2007, 204, i18-i18.	8.5	0
106	2SH-04 Single-molecule real-time imaging of ATP synthase in vitro and in living cells(2SH New) Tj ETQq0 0 0 rgBT	/Overlock 0.1	10 Tf 50 14 0
107	Winding DNA on Molecular Reel Made of F ₁ -ATPase. Seibutsu Butsuri, 2013, 53, 160-161.	0.1	0

108Design and Fabrication of Linear-shaped Zero Mode Waveguides for Single Molecule Observation of
Kinesin and Fluorescent ATP. IEEJ Transactions on Sensors and Micromachines, 2017, 137, 159-164.0.10

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109	Chitinase Moves on and Degradates Crystalline Chitin with Brownian Motion. Seibutsu Butsuri, 2019, 59, 330-333.	0.1	0
110	[Review] Moving Mechanism of Chitinase A from <i>Serratia marcescens</i> . Bulletin of Applied Glycoscience, 2020, 10, 89-95.	0.0	0
111	Linear-Zero Mode Waveguides for Single-Molecule Fluorescence Observation of Nucleotides in Kinesin-Microtubule Motility Assay. Methods in Molecular Biology, 2022, 2430, 121-131.	0.9	0