Ryota Iino

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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 |
| 2 | Label-free monitoring of crystalline chitin hydrolysis by chitinase based on Raman spectroscopy. Analyst, The, 2021, 146, 4087-4094. | 3.5 | 4 |
| 3 | Positive Charge Introduction on the Surface of Thermostabilized PET Hydrolase Facilitates PET Binding and Degradation. ACS Catalysis, 2021, 11, 8550-8564. | 11.2 | 39 |
| 4 | 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 |
| 5 | Introduction: Molecular Motors. Chemical Reviews, 2020, 120, 1-4. | 47.7 | 53 |
| 6 | 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 |
| 7 | Combined Approach to Engineer a Highly Active Mutant of Processive Chitinase Hydrolyzing Crystalline Chitin. ACS Omega, 2020, 5, 26807-26816. | 3.5 | 3 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | Small stepping motion of processive dynein revealed by load-free high-speed single-particle tracking. Scientific Reports, 2020, 10, 1080. | 3.3 | 10 |
| 12 | Crystalline chitin hydrolase is a burnt-bridge Brownian motor. Biophysics and Physicobiology, 2020, 17, 51-58. | 1.0 | 5 |
| 13 | [Review] Moving Mechanism of Chitinase A from <i>Serratia marcescens</i> . Bulletin of Applied Glycoscience, 2020, 10, 89-95. | 0.0 | 0 |
| 14 | Multicolor High-Speed Tracking of Single Biomolecules with Silver, Gold, and Silver–Gold Alloy Nanoparticles. ACS Photonics, 2019, 6, 2870-2883. | 6.6 | 17 |
| 15 | Accurate high-throughput screening based on digital protein synthesis in a massively parallel femtoliter droplet array. Science Advances, 2019, 5, eaav8185. | 10.3 | 48 |
| 16 | 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 |
| 17 | Chitinase Moves on and Degradates Crystalline Chitin with Brownian Motion. Seibutsu Butsuri, 2019, 59, 330-333. | 0.1 | 0 |
| 18 | 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 |

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|----|---|------|-----------|
| 19 | Large-Scale Femtoliter Droplet Array for Single Cell Efflux Assay of Bacteria. Methods in Molecular Biology, 2018, 1700, 331-341. | 0.9 | 4 |
| 20 | Single-molecule imaging and manipulation of biomolecular machines and systems. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 241-252. | 2.4 | 12 |
| 21 | 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 |
| 22 | Single-Nanoparticle Tracking with Angstrom Localization Precision and Microsecond Time Resolution. Biophysical Journal, 2018, 115, 2413-2427. | 0.5 | 28 |
| 23 | 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 |
| 24 | Visualization of Functional Structure and Kinetic Dynamics of Cellulases. Advances in Experimental Medicine and Biology, 2018, 1104, 201-217. | 1.6 | 2 |
| 25 | Processive chitinase is Brownian monorail operated by fast catalysis after peeling rail from crystalline chitin. Nature Communications, 2018, 9, 3814. | 12.8 | 50 |
| 26 | Plasmid-Based One-Pot Saturation Mutagenesis and Robot-Based Automated Screening for Protein Engineering. ACS Omega, 2018, 3, 7715-7726. | 3.5 | 7 |
| 27 | Dynamic structural states of ClpB involved in its disaggregation function. Nature Communications, 2018, 9, 2147. | 12.8 | 55 |
| 28 | Linear zero mode waveguides for the study of chemo-mechanical coupling mechanism of kinesin. , 2017, , , | | 1 |
| 29 | Design 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. | 0.1 | 0 |
| 30 | A Microfluidic Channel Method for Rapid Drug-Susceptibility Testing of Pseudomonas aeruginosa. PLoS ONE, 2016, 11, e0148797. | 2.5 | 54 |
| 31 | Single-molecule fluorescence imaging of kinesin using linear zero-mode waveguides. , 2016, , . | | 2 |
| 32 | Direct observation of intermediate states during the stepping motion of kinesin-1. Nature Chemical Biology, 2016, 12, 290-297. | 8.0 | 119 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | C3-O-03Single 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 |

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|----|---|-------------------|-------------------|
| 37 | 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 |
| 38 | 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 |
| 39 | A single-molecule digital enzyme assay using alkaline phosphatase with a cumarin-based fluorogenic substrate. Analyst, The, 2015, 140, 5065-5073. | 3.5 | 45 |
| 40 | 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 |
| 41 | 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 |
| 42 | Motion Capture and Manipulation of a Single Synthetic Molecular Rotor by Optical Microscopy. Angewandte Chemie, 2014, 126, 10246-10249. | 2.0 | 6 |
| 43 | Motion Capture and Manipulation of a Single Synthetic Molecular Rotor by Optical Microscopy. Angewandte Chemie - International Edition, 2014, 53, 10082-10085. | 13.8 | 14 |
| 44 | Torque Generation of Enterococcus hirae V-ATPase. Journal of Biological Chemistry, 2014, 289, 31212-31223. | 3.4 | 27 |
| 45 | 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 |
| 46 | Single-molecule Imaging Analysis of Elementary Reaction Steps of Trichoderma reesei Cellobiohydrolase I (Cel7A) Hydrolyzing Crystalline Cellulose Iα and IIII. Journal of Biological Chemistry, 2014, 289, 14056-14065. | 3.4 | 50 |
| 47 | Real-time fluorescence visualization of slow tautomerization of single free-base phthalocyanines under ambient conditions. Chemical Communications, 2014, 50, 9443. | 4.1 | 7 |
| 48 | 3P321 Development of enzyme screening system for directed evolution based on enzymic activity(28.) Tj ETQq(Butsuri, 2014, 54, S302. | 0 0 0 rgBT 0.1 | /Overlock 10 0 |
| 49 | Dual-mode lensless imaging device for digital enzyme linked immunosorbent assay. , 2014, , . | | 8 |
| 50 | High-speed atomic force microscope combined with single-molecule fluorescence microscope. Review of Scientific Instruments, 2013, 84, 073706. | 1.3 | 65 |
| 51 | 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 |
| 52 | Lensless imaging device for digital counting of fluorescent micro-droplet chambers. , 2013, , . | | 1 |
| 53 | A CMOS image sensor with low fixed pattern noise suitable for lensless observation system of digital enzyme-linked immunosorbent assay (ELISA). , 2013, , . | | 1 |
| 54 | Intersubunit coordination and cooperativity in ring-shaped NTPases. Current Opinion in Structural Biology, 2013, 23, 229-234. | 5.7 | 15 |

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|----|--|------------------------|--------------|
| 55 | Biased Brownian stepping rotation of FoF1-ATP synthase driven by proton motive force. Nature Communications, 2013, 4, 1631. | 12.8 | 41 |
| 56 | 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 |
| 57 | Basic Properties of Rotary Dynamics of the Molecular Motor Enterococcus hirae V1-ATPase. Journal of Biological Chemistry, 2013, 288, 32700-32707. | 3.4 | 51 |
| 58 | 2P160 Single-Molecular Measurement of a Synthetic Molecular Bearing(11. Molecular motor,Poster). Seibutsu Butsuri, 2013, 53, S185. | 0.1 | 0 |
| 59 | Winding DNA on Molecular Reel Made of F ₁ -ATPase. Seibutsu Butsuri, 2013, 53, 160-161. | 0.1 | 0 |
| 60 | Winding single-molecule double-stranded DNA on a nanometer-sized reel. Nucleic Acids Research, 2012, 40, e151-e151. | 14.5 | 12 |
| 61 | Complementary Metal–Oxide–Semiconductor Image Sensor with Microchamber Array for Fluorescent Bead Counting. Japanese Journal of Applied Physics, 2012, 51, 02BL01. | 1.5 | 12 |
| 62 | Principal Role of the Arginine Finger in Rotary Catalysis of F1-ATPase. Journal of Biological Chemistry, 2012, 287, 15134-15142. | 3.4 | 37 |
| 63 | 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 |
| 64 | 1PS033 Direct observation of H^+-driven rotation of F_0F_1-ATP synthase(The 50th Annual Meeting of) Tj ETQq(| 0 0 0 rgBT 0.1 rgBT | /Overlock 10 |
| 65 | Rotary catalysis of the stator ring of F1-ATPase. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1732-1739. | 1.0 | 14 |
| 66 | 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 |
| 67 | Large-scale femtoliter droplet array for digital counting of single biomolecules. Lab on A Chip, 2012, 12, 4986. | 6.0 | 185 |
| 68 | 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 |
| 69 | A Microfluidic Device for Simple and Rapid Evaluation of Multidrug Efflux Pump Inhibitors. Frontiers in Microbiology, 2012, 3, 40. | 3.5 | 21 |
| 70 | 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 |
| 71 | Mechanical modulation of catalytic power on F1-ATPase. Nature Chemical Biology, 2012, 8, 86-92. | 8.0 | 94 |
| | | | |

72Complementary Metalâ€"Oxideâ€"Semiconductor Image Sensor with Microchamber Array for Fluorescent
Bead Counting. Japanese Journal of Applied Physics, 2012, 51, 02BL01.1.512

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|----|---|--------------------|-------------------|
| 73 | 1SM-03 Real-Time Single-Molecular Measurement of Artificial Molecular Rotor(1SM Interdisciplinary) Tj ETQq1 1 (| 0.784314 0.1 | rgBT /Overlo 0 |
| 74 | Evaluation of Multidrug Efflux Pump Inhibitors by a New Method Using Microfluidic Channels. PLoS ONE, 2011, 6, e18547. | 2.5 | 95 |
| 75 | 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 |
| 76 | 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 C | 0 rgBT /C | verlock 10 T |
| 77 | 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 |
| 78 | Subunit rotation in a single F o F 1 -ATP synthase in a living bacterium monitored by FRET. , 2011, , . | | 11 |
| 79 | High-Speed Atomic Force Microscopy Reveals Rotary Catalysis of Rotorless F ₁ -ATPase. Science, 2011, 333, 755-758. | 12.6 | 420 |
| 80 | Rotation and structure of FoF1-ATP synthase. Journal of Biochemistry, 2011, 149, 655-664. | 1.7 | 184 |
| 81 | 2SH-04 Single-molecule real-time imaging of ATP synthase in vitro and in living cells(2SH New) Tj ETQq1 1 0.7843 | 814 rgBT /(0.1 | Overlock 10 0 |
| 82 | Stiffness of \hat{I}^3 subunit of F1-ATPase. European Biophysics Journal, 2010, 39, 1589-1596. | 2.2 | 38 |
| 83 | Phosphate release in F1-ATPase catalytic cycle follows ADP release. Nature Chemical Biology, 2010, 6, 814-820. | 8.0 | 146 |
| 84 | 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 |
| 85 | 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 |
| 86 | Simple Dark-Field Microscopy with Nanometer Spatial Precision and Microsecond Temporal Resolution. Biophysical Journal, 2010, 98, 2014-2023. | 0.5 | 150 |
| 87 | A single-molecule enzymatic assay in a directly accessible femtoliter droplet array. Lab on A Chip, 2010, 10, 3355. | 6.0 | 186 |
| 88 | 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 |
| 89 | 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 |
| 90 | Single-Molecule Assay of Biological Reaction in Femtoliter Chamber Array. Japanese Journal of Applied Physics, 2009, 48, 08JA04. | 1.5 | 4 |

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|-----|---|------|-----------|
| 91 | Mechanism of Inhibition by C-terminal α-Helices of the Ϊμ Subunit of Escherichia coli FoF1-ATP Synthase. Journal of Biological Chemistry, 2009, 284, 17457-17464. | 3.4 | 77 |
| 92 | Highly sensitive restriction enzyme assay and analysis: a review. Analytical and Bioanalytical Chemistry, 2008, 391, 2423-2432. | 3.7 | 15 |
| 93 | Temperatureâ€sensitive reaction intermediate of F ₁ â€ATPase. EMBO Reports, 2008, 9, 84-90. | 4.5 | 46 |
| 94 | 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 |
| 95 | GPI-anchored receptor clusters transiently recruit Lyn and G \hat{i} ± for temporary cluster immobilization and Lyn activation: single-molecule tracking study 1. Journal of Cell Biology, 2007, 177, 717-730. | 5.2 | 292 |
| 96 | 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 |
| 97 | F1-ATPase: a highly coupled reversible rotary motor. Biochemical Society Transactions, 2006, 34, 993-996. | 3.4 | 8 |
| 98 | 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 |
| 99 | Chemomechanical Coupling in Single-Molecule F-Type ATP Synthase. Journal of Bioenergetics and Biomembranes, 2005, 37, 451-454. | 2.3 | 11 |
| 100 | Real-time Monitoring of Conformational Dynamics of the ϵ Subunit in F1-ATPase. Journal of Biological Chemistry, 2005, 280, 40130-40134. | 3.4 | 64 |
| 101 | Fluorescence Imaging for Monitoring the Colocalization of Two Single Molecules in Living Cells. Biophysical Journal, 2005, 88, 2126-2136. | 0.5 | 154 |
| 102 | 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 |
| 103 | Ultrafine Membrane Compartments for Molecular Diffusion as Revealed by Single Molecule Techniques. Biophysical Journal, 2004, 86, 4075-4093. | 0.5 | 400 |
| 104 | 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 |
| 105 | Accumulation of anchored proteins forms membrane diffusion barriers during neuronal polarization. Nature Cell Biology, 2003, 5, 626-632. | 10.3 | 324 |
| 106 | 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 |
| 107 | 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 |
| 108 | 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 |

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| 109 | 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 |
| 110 | Single-Fluorophore Dynamic Imaging in Living Cells. Journal of Fluorescence, 2001, 11, 187-195. | 2.5 | 23 |
| 111 | Two Rotary Motors of ATP Synthase. , 0, , 237-255. | | ο |