

# Hiroshi Ueno

## List of Publications by Year in descending order

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39  
papers

1,171  
citations

394421

19  
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395702

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43  
docs citations

43  
times ranked

1143  
citing authors

#	ARTICLE	IF	CITATIONS
1	How Does F1-ATPase Generate Torque?: Analysis From Cryo-Electron Microscopy and Rotational Catalysis of Thermophilic F1. <i>Frontiers in Microbiology</i> , 2022, 13, .	3.5	11
2	Kinetic analysis of the inhibition mechanism of bovine mitochondrial F1-ATPase inhibitory protein using biochemical assay. <i>Journal of Biochemistry</i> , 2021, 170, 79-87.	1.7	7
3	Elucidation and control of low and high active populations of alkaline phosphatase molecules for quantitative digital bioassay. <i>Protein Science</i> , 2021, 30, 1628-1639.	7.6	16
4	Amplification of over 100 kbp DNA from Single Template Molecules in Femtoliter Droplets. <i>ACS Synthetic Biology</i> , 2021, 10, 2179-2186.	3.8	8
5	The six steps of the complete F1-ATPase rotary catalytic cycle. <i>Nature Communications</i> , 2021, 12, 4690.	12.8	50
6	The 3 Å– 120Å° rotary mechanism of <i>Paracoccus denitrificans</i> F <sub>1</sub> -ATPase is different from that of the bacterial and mitochondrial F <sub>1</sub> -ATPases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29647-29657.	7.1	19
7	Tight Chemomechanical Coupling of the F1 Motor Relies on Structural Stability. <i>Biophysical Journal</i> , 2020, 119, 48-54.	0.5	3
8	Monodisperse Liposomes with Femtoliter Volume Enable Quantitative Digital Bioassays of Membrane Transporters and Cell-Free Gene Expression. <i>ACS Nano</i> , 2020, 14, 11700-11711.	14.6	17
9	Rotary catalysis of bovine mitochondrial F <sub>1</sub> -ATPase studied by single-molecule experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1447-1456.	7.1	26
10	Correlation between the numbers of rotation steps in the ATPase and proton-conducting domains of F- and V-ATPases. <i>Biophysical Reviews</i> , 2020, 12, 303-307.	3.2	11
11	Tracking the 3D Rotational Dynamics in Nanoscopic Biological Systems. <i>Journal of the American Chemical Society</i> , 2020, 142, 7542-7554.	13.7	34
12	Mobile imaging platform for digital influenza virus counting. <i>Lab on A Chip</i> , 2019, 19, 2678-2687.	6.0	34
13	Wash- and Amplification-Free Digital Immunoassay Based on Single-Particle Motion Analysis. <i>ACS Nano</i> , 2019, 13, 13116-13126.	14.6	45
14	Revealing the Metabolic Activity of Persisters in Mycobacteria by Single-Cell D <sub>2</sub> O Raman Imaging Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 15171-15178.	6.5	23
15	Accurate high-throughput screening based on digital protein synthesis in a massively parallel femtoliter droplet array. <i>Science Advances</i> , 2019, 5, eaav8185.	10.3	48
16	Single-molecule analysis reveals rotational substeps and chemo-mechanical coupling scheme of <i>Enterococcus hirae</i> V1-ATPase. <i>Journal of Biological Chemistry</i> , 2019, 294, 17017-17030.	3.4	29
17	Structure and dynamics of rotary V1 motor. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 1789-1802.	5.4	14
18	Off-axis rotor in <i>Enterococcus hirae</i> V-ATPase visualized by Zernike phase plate single-particle cryo-electron microscopy. <i>Scientific Reports</i> , 2018, 8, 15632.	3.3	9

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19	Fullerene cation-mediated demethylation/cyclization to give 5- and 7-membered cyclo[60]fullerene derivatives. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2774-2783.	10.3	19
20	Catalytic robustness and torque generation of the F1-ATPase. <i>Biophysical Reviews</i> , 2017, 9, 103-118.	3.2	48
21	Direct real-time detection of single proteins using silicon nanowire-based electrical circuits. <i>Nanoscale</i> , 2016, 8, 16172-16176.	5.6	40
22	Rotation of artificial rotor axles in rotary molecular motors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11214-11219.	7.1	13
23	Biophysical Characterization of a Thermoalkaliphilic Molecular Motor with a High Stepping Torque Gives Insight into Evolutionary ATP Synthase Adaptation. <i>Journal of Biological Chemistry</i> , 2016, 291, 23965-23977.	3.4	21
24	ATP hydrolysis assists phosphate release and promotes reaction ordering in F1-ATPase. <i>Nature Communications</i> , 2015, 6, 10223.	12.8	23
25	Rotational mechanism of <i>Enterococcus hirae</i> V1-ATPase by crystal-structure and single-molecule analyses. <i>Current Opinion in Structural Biology</i> , 2015, 31, 49-56.	5.7	16
26	Torque Generation of <i>Enterococcus hirae</i> V-ATPase. <i>Journal of Biological Chemistry</i> , 2014, 289, 31212-31223.	3.4	27
27	Molecular structure and rotary dynamics of <i>Enterococcus hirae</i> V1-ATPase. <i>IUBMB Life</i> , 2014, 66, 624-630.	3.4	6
28	Catalysis-Enhancement via Rotary Fluctuation of F1-ATPase. <i>Biophysical Journal</i> , 2013, 105, 2385-2391.	0.5	24
29	Basic Properties of Rotary Dynamics of the Molecular Motor <i>Enterococcus hirae</i> V1-ATPase. <i>Journal of Biological Chemistry</i> , 2013, 288, 32700-32707.	3.4	51
30	Recovery of state-specific potential of molecular motor from single-molecule trajectory. <i>Europhysics Letters</i> , 2012, 97, 40004.	2.0	39
31	2SI-02 Single molecule energetics of F <sub>1</sub> -ATPase motor(2SI The art of energetic and functional) Tj ETQq1 1 0.784314 rgBT / Overlock 10 0 0.1	0.1	0
32	Role of the DELSEED Loop in Torque Transmission of F1-ATPase. <i>Biophysical Journal</i> , 2012, 103, 970-978.	0.5	47
33	1PS024 Inhibitory effect of Pi on F <sub>1</sub> -ATPase P-loop mutant(The 50th Annual Meeting of the Biophysical) Tj ETQq1 1 0.784314 rgBT / Overlock 10 0 0.1	0.1	0
34	Molecular Mechanism of ATP Hydrolysis in F <sub>1</sub> -ATPase Revealed by Molecular Simulations and Single-Molecule Observations. <i>Journal of the American Chemical Society</i> , 2012, 134, 8447-8454.	13.7	95
35	1L1548 P05 1YE1000 Single-molecule nonequilibrium thermodynamics of molecular motor(Molecular) Tj ETQq1 1 0.784314 rgBT / Overlock 10 0 0.1	0.1	0
36	1P199 1YA1015 Innovation of new theory of non-equilibrium statistical mechanics and its application to single molecule experiments(Molecular motor,Early Research in Biophysics Award Candidate) Tj ETQq0 0 0 rgBT / Overlock 10 0 0.1	0.1	0

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37	Fluctuation Theorem Applied to $\langle \mathbf{F} \rangle$ -ATPase. Physical Review Letters, 2010, 104, 218103.	7.8	146
38	Simple Dark-Field Microscopy with Nanometer Spatial Precision and Microsecond Temporal Resolution. Biophysical Journal, 2010, 98, 2014-2023.	0.5	150
39	2P175 Application of Simple Dark-Field Microscopy with High spatiotemporal resolution(The 48th) Tj ETQq1 1 0.784314 rgBT <sub>0</sub> /Overlo	0.1	