

# Atsuko H Iwane

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

807  
citations

759190

12  
h-index

642715

23  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1141  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct visualization of secondary structures of F-actin by electron cryomicroscopy. <i>Nature</i> , 2010, 467, 724-728.	27.8	331
2	Fluorescence microscopy for simultaneous observation of 3D orientation and movement and its application to quantum rod-tagged myosin V. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5294-5298.	7.1	77
3	Switch between Large Hand-Over-Hand and Small Inchworm-like Steps in Myosin VI. <i>Cell</i> , 2010, 142, 879-888.	28.9	65
4	Brownian search-and-catch mechanism for myosin-VI steps. <i>Nature Chemical Biology</i> , 2009, 5, 403-405.	8.0	62
5	Switching of myosin-V motion between the lever-arm swing and Brownian search-and-catch. <i>Nature Communications</i> , 2012, 3, 956.	12.8	43
6	Insufficiency of ciliary cholesterol in hereditary Zellweger syndrome. <i>EMBO Journal</i> , 2020, 39, e103499.	7.8	35
7	Myosin-V makes two brownian 90° rotations per 36-nm step. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 968-973.	8.2	30
8	Local Heat Activation of Single Myosins Based on Optical Trapping of Gold Nanoparticles. <i>Nano Letters</i> , 2015, 15, 2456-2461.	9.1	30
9	Role of Ca <sup>2+</sup> transients at the node of the mouse embryo in breaking of left-right symmetry. <i>Science Advances</i> , 2020, 6, eaba1195.	10.3	29
10	Fluctuation Analysis of Mechanochemical Coupling Depending on the Type of Biomolecular Motors. <i>Physical Review Letters</i> , 2008, 101, 128103.	7.8	16
11	Roles of basal keratinocytes in actinotrichia formation. <i>Mechanisms of Development</i> , 2018, 153, 54-63.	1.7	16
12	Simultaneous Observation of the Lever Arm and Head Explains Myosin VI Dual Function. <i>Small</i> , 2012, 8, 3035-3040.	10.0	13
13	The Role of Structural Dynamics of Actin in Class-Specific Myosin Motility. <i>PLoS ONE</i> , 2015, 10, e0126262.	2.5	10
14	Prediction of Sequential Organelles Localization under Imbalance using A Balanced Deep U-Net. <i>Scientific Reports</i> , 2020, 10, 2626.	3.3	10
15	The Physical Role of Mesenchymal Cells Driven by the Actin Cytoskeleton Is Essential for the Orientation of Collagen Fibrils in Zebrafish Fins. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 580520.	3.7	8
16	Spontaneous Structural Changes in Actin Regulate G-F Transformation. <i>PLoS ONE</i> , 2012, 7, e45864.	2.5	6
17	Cytological Analyses by Advanced Electron Microscopy. , 2017, , 129-151.		6
18	Multiplexed <sup>129</sup> Xe HyperCEST MRI Detection of Genetically Reconstituted Bacterial Protein Nanoparticles in Human Cancer Cells. <i>Contrast Media and Molecular Imaging</i> , 2020, 2020, 1-10.	0.8	5

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19	Long-term live cell cycle imaging of single Cyanidioschyzon merolae cells. Protoplasma, 2021, 258, 651-660.	2.1	5
20	Recombinant .ALPHA.-actin for specific fluorescent labeling. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2009, 85, 491-499.	3.8	3
21	Cyanidioschyzon merolae aurora kinase phosphorylates evolutionarily conserved sites on its target to regulate mitochondrial division. Communications Biology, 2019, 2, 477.	4.4	3
22	3D Microstructural Visualization of the Simplest of Eukaryotic Cell (Cyanidioschyzon Merolae) during Mitosis Process using Several New Microscopic Techniques. Biophysical Journal, 2016, 110, 155a.	0.5	2
23	Three-Dimensional Microstructural Visualization of Mitosis using Focused Ion Beam-Scanning Electron Microscope (FIB-SEM) and 3Mv Ultra-High Voltage Electron Microscope (UHVEM) Tomography with Nanoscale Resolution at Whole Cell Level. Biophysical Journal, 2015, 108, 618a.	0.5	1
24	3D-Visualization of the Precise Location of Symbiotic Organelle Crosstalk Throughout Mitosis in the Primitive Unicellular Eukaryotic Cell, C.ÂMerolae. Biophysical Journal, 2017, 112, 576a.	0.5	1
25	2P123 Relationship between actin-activated ATPase activity and motility of Myosin Va.(Molecular) Tj ETQq1 1 0.784314 rgBT /Overlock	0.1	0
26	2P136 Strain-dependent strong binding of myosin to actin revealed by high-speed scanning experiment(Molecular motors,Oral Presentations). Seibutsu Butsuri, 2007, 47, S147.	0.1	0
27	2P127 Two Brownian 90Â° Rotations of Myosin-V during 36 nm-Step(Molecular motors,Poster) Tj ETQq1 1 0.784314 rgBT /Overlock	0.1	0
28	Spontaneous Conformational Fluctuations in Cell Signaling Proteins of Ras. Progress of Theoretical Physics Supplement, 2008, 173, 229-234.	0.1	0
29	High Speed Imaging For Myosin VI. Biophysical Journal, 2009, 96, 139a.	0.5	0
30	1P201 Recombinant skeletal muscle actin for specific fluorescent labeling(Cell biology,The 48th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	0.1	0
31	Multiple Structural Forms of Actin in the Filamentous State. Biophysical Journal, 2010, 98, 154a.	0.5	0
32	G146V Mutant Actin is Defective in Conformational Changes, Accompanied by Impaired Motility with Skeletal Myosin. Biophysical Journal, 2010, 98, 158a.	0.5	0
33	The Mechanical Properties of a Single Myosin V Motor Domain During Gait Motion. Biophysical Journal, 2010, 98, 562a-563a.	0.5	0
34	Observation of Dynamical Conformational Changes of Skeletal Muscle Actin Filament. Biophysical Journal, 2011, 100, 299a.	0.5	0
35	Single Molecule Measurement of the Myosin V Energy Transduction Process. Biophysical Journal, 2012, 102, 567a-568a.	0.5	0
36	Simultaneous Observation of the Three-Dimensional Orientation and Position of a Single Fluorescent Probe. Biophysical Journal, 2012, 102, 721a.	0.5	0

#	ARTICLE	IF	CITATIONS
37	Development for Dynamic Live Cell Imaging by Cryo-Electron Tomography and Stem. Biophysical Journal, 2013, 104, 354a.	0.5	0