Jung-Chi Liao

List of Publications by Year
in descending order

49 papers	1,483 citations	394421 19 h-index	361022 35 g-index
56 all docs	56 docs citations	56 times ranked	2067 citing authors

#	Article	IF	Citations
1	Feedback Regulation of Receptor-Induced Ca2+ Signaling Mediated by E-Syt1 and Nir2 at Endoplasmic Reticulum-Plasma Membrane Junctions. Cell Reports, 2013, 5, 813-825.	6.4	304
2	Super-resolution architecture of mammalian centriole distal appendages reveals distinct blade and matrix functional components. Nature Communications, 2018, 9, 2023.	12.8	151
3	Superresolution Pattern Recognition Reveals the Architectural Map of the Ciliary Transition Zone. Scientific Reports, 2015, 5, 14096.	3.3	128
4	Mechanochemistry of T7 DNA Helicase. Journal of Molecular Biology, 2005, 350, 452-475.	4.2	83
5	Super-resolution microscopy reveals coupling between mammalian centriole subdistal appendages and distal appendages. ELife, 2020, 9, .	6.0	67
6	Predicting Allosteric Communication in Myosin via a Pathway of Conserved Residues. Journal of Molecular Biology, 2007, 373, 1361-1373.	4.2	61
7	SAS-6 Assembly Templated by the Lumen of Cartwheel-less Centrioles Precedes Centriole Duplication. Developmental Cell, 2014, 30, 238-245.	7.0	59
8	Phosphorylation of CEP83 by TTBK2 is necessary for cilia initiation. Journal of Cell Biology, 2019, 218, 3489-3505.	5.2	55
9	Making ATP. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16539-16546.	7.1	54
10	Mechanochemistry of Transcription Termination Factor Rho. Molecular Cell, 2006, 22, 611-621.	9.7	49
11	The conformational states of Mgï¿½ATP in water. European Biophysics Journal, 2004, 33, 29-37.	2.2	48
12	Toward the mechanism of dynamical couplings and translocation in hepatitis C virus NS3 helicase using elastic network model. Proteins: Structure, Function and Bioinformatics, 2007, 67, 886-896.	2.6	48
13	Stage-Dependent Axon Transport of Proteasomes Contributes to Axon Development. Developmental Cell, 2015, 35, 418-431.	7.0	44
14	Detailed Tuning of Structure and Intramolecular Communication Are Dispensable for Processive Motion of Myosin VI. Biophysical Journal, 2011, 100, 430-439.	0.5	39
15	TTBK2: A Tau Protein Kinase beyond Tau Phosphorylation. BioMed Research International, 2015, 2015, 1-10.	1.9	36
16	Two separate functions of NME3 critical for cell survival underlie a neurodegenerative disorder. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 566-574.	7.1	36
17	Engineered Myosin VI Motors Reveal Minimal Structural Determinants of Directionality and Processivity. Journal of Molecular Biology, 2009, 392, 862-867.	4.2	33
18	Extending the absorbing boundary method to fit dwell-time distributions of molecular motors with complex kinetic pathways. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3171-3176.	7.1	23

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19	Superresolution STED microscopy reveals differential localization in primary cilia. Cytoskeleton, 2013, 70, 54-65.	2.0	23
20	Rab34 is necessary for early stages of intracellular ciliogenesis. Current Biology, 2021, 31, 2887-2894.e4.	3.9	19
21	Single-particle tracking localization microscopy reveals nonaxonemal dynamics of intraflagellar transport proteins at the base of mammalian primary cilia. Molecular Biology of the Cell, 2019, 30, 828-837.	2.1	17
22	Epigenetic modulation of immune synaptic-cytoskeletal networks potentiates Î³Î´ T cell-mediated cytotoxicity in lung cancer. Nature Communications, 2021, 12, 2163.	12.8	16
23	Differential requirements for the EF-hands of human centrin2 in primary ciliogenesis and nucleotide excision repair. Journal of Cell Science, 2019, 132, .	2.0	14
24	Super-Resolution Imaging Reveals TCTN2 Depletion-Induced IFT88 Lumen Leakage and CiliaryÂWeakening. Biophysical Journal, 2018, 115, 263-275.	0.5	12
25	Adducinâ€1 is essential for spindle pole integrity through its interaction with TPX2. EMBO Reports, 2018, 19, .	4.5	11
26	Morphological Differences of Primary Cilia Between Human Induced Pluripotent Stem Cells and Their Parental Somatic Cells. Stem Cells and Development, 2014, 23, 115-123.	2.1	10
27	Mechanical Transduction Mechanisms of RecA-Like Molecular Motors. Journal of Biomolecular Structure and Dynamics, 2011, 29, 497-507.	3.5	8
28	Differential Proteomics Reveals Discrete Functions of Proteins Interacting with Hypo- versus Hyper-phosphorylated NS5A of the Hepatitis C Virus. Journal of Proteome Research, 2019, 18, 2813-2825.	3.7	6
29	A microfluidic device for <i>in situ</i> fixation and super-resolved mechanosensation studies of primary cilia. Biomicrofluidics, 2019, 13, 014105.	2.4	6
30	Identification of unique interactions between the flexible linker and the RecA-like domains of DEAD-box helicase Mss116. Journal of Physics Condensed Matter, 2013, 25, 374101.	1.8	4
31	Identifying Highly Conserved and Unique Structural Elements in Myosin VI. Cellular and Molecular Bioengineering, 2012, 5, 375-389.	2.1	3
32	Towards a Subdiffraction View of Motor-Mediated Transport in Primary Cilia. Cellular and Molecular Bioengineering, 2013, 6, 82-97.	2.1	3
33	Mechanism of flexibility control for ATP access of hepatitis C virus NS3 helicase. Journal of Biomolecular Structure and Dynamics, 2013, 31, 129-141.	3.5	3
34	STED and STORM Superresolution Imaging of Primary Cilia. Methods in Molecular Biology, 2016, 1454, 169-192.	0.9	3
35	Studies of the Translocation Mechanism of Hepatitis C Virus NS3 Helicase with Computationally Mutant Constructs. Biophysical Journal, 2009, 96, 343a.	0.5	0
36	Probing Myosin-VI Processivity using Artificial Lever Arms. Biophysical Journal, 2010, 98, 723a.	0.5	0

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37	Mechanism of Locking Myosin VI Converter in the Unique Pre-Stroke Conformation. Biophysical Journal, 2011, 100, 118a-119a.	0.5	0
38	Superresolution STED Imaging Reveals a Periodic Punctate Pattern of Adenylyl Cyclase Type III on Primary Cilia. Biophysical Journal, 2012, 102, 725a.	0.5	0
39	Conservation Analysis of Myosin Families. Biophysical Journal, 2012, 102, 569a.	0.5	0
40	Effect of Reprogramming on Primary Cilia Mechanics. Biophysical Journal, 2012, 102, 415a.	0.5	0
41	Conformational Analysis Reveals Distinct Mechanical Transduction Mechanisms of RecA-Like Molecular Motors. Biophysical Journal, 2012, 102, 446a-447a.	0.5	0
42	Visualizing Tctn2 in the Transition Zone of Primary Cilia using STED Nanoscopy. Biophysical Journal, 2013, 104, 672a.	0.5	0
43	Analyzing Unique Residues of E. Coli Dead-Box Protein DbpA via Molecular Dynamics Simulation. Biophysical Journal, 2013, 104, 421a-422a.	0.5	0
44	Subdiffraction Imaging Reveals Molecular Architecture at the Transition Zone of Primary Cilia. Biophysical Journal, 2014, 106, 435a.	0.5	0
45	Superresolution Microscopy Reveals Staggered Arrangement of Mammalian Distal Appendages. Biophysical Journal, 2016, 110, 166a.	0.5	0
46	Collective Live-Cell Superresolved Traces Reveal Nonaxonomal Dynamics of Intraflagellar Transport Particles at the Ciliary Base. Biophysical Journal, 2017, 112, 312a-313a.	0.5	0
47	3D Architectural Reconstruction of Mammalian Centriole Distal Appendages using Superresolution Microscopy. Biophysical Journal, 2018, 114, 539a.	0.5	0
48	Super-Resolution Microscopy Reveals the Molecular Architecture of Centriole Subdistal Appendages and Its Role in Microtubule/Golgi Anchoring. Biophysical Journal, 2019, 116, 133a.	0.5	0
49	Single-molecule tracking reveals varying transport speed of IFT88 proteins at the base of mammalian primary cilia. , 2020, , .		0