

Jing Xu

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

1,414
citations

623734

14
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

1543
citing authors

#	ARTICLE	IF	CITATIONS
1	Consequences of Motor Copy Number on the Intracellular Transport of Kinesin-1-Driven Lipid Droplets. <i>Cell</i> , 2008, 135, 1098-1107.	28.9	320
2	Probing the collective vibrational dynamics of a protein in liquid water by terahertz absorption spectroscopy. <i>Protein Science</i> , 2006, 15, 1175-1181.	7.6	188
3	Mechanical stochastic tug-of-war models cannot explain bidirectional lipid-droplet transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18960-18965.	7.1	174
4	Stepping, Strain Gating, and an Unexpected Force-Velocity Curve for Multiple-Motor-Based Transport. <i>Current Biology</i> , 2008, 18, 1173-1183.	3.9	158
5	A cytoplasmic dynein tail mutation impairs motor processivity. <i>Nature Cell Biology</i> , 2010, 12, 1228-1234.	10.3	154
6	Absorption spectra of liquid water and aqueous buffers between 0.3 and 3.72THz. <i>Journal of Chemical Physics</i> , 2006, 124, 036101.	3.0	84
7	Tuning Multiple Motor Travel via Single Motor Velocity. <i>Traffic</i> , 2012, 13, 1198-1205.	2.7	62
8	Terahertz Circular Dichroism Spectroscopy: A Potential Approach to the In Situ Detection of Life's Metabolic and Genetic Machinery. <i>Astrobiology</i> , 2003, 3, 489-504.	3.0	61
9	Microtubule Defects Influence Kinesin-Based Transport In Vitro. <i>Biophysical Journal</i> , 2016, 110, 2229-2240.	0.5	34
10	Casein kinase 2 reverses tail-independent inactivation of kinesin-1. <i>Nature Communications</i> , 2012, 3, 754.	12.8	33
11	Single Molecule Investigation of Kinesin-1 Motility Using Engineered Microtubule Defects. <i>Scientific Reports</i> , 2017, 7, 44290.	3.3	28
12	Interplay between Velocity and Travel Distance of Kinesin-based Transport in the Presence of Tau. <i>Biophysical Journal</i> , 2013, 105, L23-L25.	0.5	27
13	Quantitative Determination of the Probability of Multiple-Motor Transport in Bead-Based Assays. <i>Biophysical Journal</i> , 2016, 110, 2720-2728.	0.5	24
14	A fluid membrane enhances the velocity of cargo transport by small teams of kinesin-1. <i>Journal of Chemical Physics</i> , 2018, 148, 123318.	3.0	23
15	Heterogeneity in kinesin function. <i>Traffic</i> , 2017, 18, 658-671.	2.7	13
16	Cooperative protofilament switching emerges from inter-motor interference in multiple-motor transport. <i>Scientific Reports</i> , 2015, 4, 7255.	3.3	12
17	Native kinesin-1 does not bind preferentially to GTP-tubulin-rich microtubules in vitro. <i>Cytoskeleton</i> , 2017, 74, 356-366.	2.0	8
18	Cargo diffusion shortens single-kinesin runs at low viscous drag. <i>Scientific Reports</i> , 2019, 9, 4104.	3.3	7

#	ARTICLE	IF	CITATIONS
19	Tuning ensemble-averaged cargo run length via fractional change in mean kinesin number. <i>Physical Biology</i> , 2021, 18, 046004.	1.8	3