Erdem Karatekin

List of Publications by Year
in descending order

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31	1,655	394421 19	454955 30
papers	citations	h-index	g-index

45	45	45	2005
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cascades of Transient Pores in Giant Vesicles: Line Tension and Transport. Biophysical Journal, 2003, 84, 1734-1749.	0.5	349
2	Analysis of Transient Behavior in Complex Trajectories: Application to Secretory Vesicle Dynamics. Biophysical Journal, 2006, 91, 3542-3559.	0.5	141
3	Mechanism of Cytokinetic Contractile Ring Constriction in Fission Yeast. Developmental Cell, 2014, 29, 547-561.	7.0	127
4	A fast, single-vesicle fusion assay mimics physiological SNARE requirements. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3517-3521.	7.1	125
5	Three Myosins Contribute Uniquely to the Assembly and Constriction of the Fission Yeast Cytokinetic Contractile Ring. Current Biology, 2015, 25, 1955-1965.	3.9	85
6	A Programmable DNA Origami Platform to Organize SNAREs for Membrane Fusion. Journal of the American Chemical Society, 2016, 138, 4439-4447.	13.7	78
7	Interactive, Computer-Assisted Tracking of Speckle Trajectories in Fluorescence Microscopy: Application to Actin Polymerization and Membrane Fusion. Biophysical Journal, 2011, 101, 1794-1804.	0.5	77
8	Entropic forces drive self-organization and membrane fusion by SNARE proteins. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5455-5460.	7.1	61
9	Single-molecule force spectroscopy of protein-membrane interactions. ELife, 2017, 6, .	6.0	59
10	Cholesterol Increases the Openness of SNARE-Mediated Flickering Fusion Pores. Biophysical Journal, 2016, 110, 1538-1550.	0.5	58
11	Dilation of fusion pores by crowding of SNARE proteins. ELife, 2017, 6, .	6.0	57
12	A human apolipoprotein L with detergent-like activity kills intracellular pathogens. Science, 2021, 373, .	12.6	50
13	FisB mediates membrane fission during sporulation in Bacillus subtilis. Genes and Development, 2013, 27, 322-334.	5.9	47
14	Fusion of single proteoliposomes with planar, cushioned bilayers in microfluidic flow cells. Nature Protocols, 2012, 7, 903-920.	12.0	41
15	Nanodisc-cell fusion: control of fusion pore nucleation and lifetimes by SNARE protein transmembrane domains. Scientific Reports, 2016, 6, 27287.	3.3	39
16	Sorting sub-150-nm liposomes of distinct sizes by DNA-brick-assisted centrifugation. Nature Chemistry, 2021, 13, 335-342.	13.6	34
17	Regulation of Exocytotic Fusion Pores by SNARE Protein Transmembrane Domains. Frontiers in Molecular Neuroscience, 2017, 10, 315.	2.9	33
18	The neuronal calcium sensor Synaptotagmin-1 and SNARE proteins cooperate to dilate fusion pores. ELife, 2021, 10, .	6.0	29

#	Article	IF	Citations
19	Leukocyte Cytoskeleton Polarization Is Initiated by Plasma Membrane Curvature from Cell Attachment. Developmental Cell, 2019, 49, 206-219.e7.	7.0	27
20	Rapid propagation of membrane tension at retinal bipolar neuron presynaptic terminals. Science Advances, 2022, 8, eabl4411.	10.3	22
21	Stepwise membrane binding of extended synaptotagmins revealed by optical tweezers. Nature Chemical Biology, 2022, 18, 313-320.	8.0	21
22	Toward a unified picture of the exocytotic fusion pore. FEBS Letters, 2018, 592, 3563-3585.	2.8	19
23	Retromer forms low order oligomers on supported lipid bilayers. Journal of Biological Chemistry, 2020, 295, 12305-12316.	3.4	13
24	Polybasic Patches in Both C2 Domains of Synaptotagmin-1 Are Required for Evoked Neurotransmitter Release. Journal of Neuroscience, 2022, 42, 5816-5829.	3.6	10
25	FisB relies on homo-oligomerization and lipid binding to catalyze membrane fission in bacteria. PLoS Biology, 2021, 19, e3001314.	5.6	9
26	DNA-Origami-Based Fluorescence Brightness Standards for Convenient and Fast Protein Counting in Live Cells. Nano Letters, 2020, 20, 8890-8896.	9.1	8
27	SNARE-mediated Fusion of Single Proteoliposomes with Tethered Supported Bilayers in a Microfluidic Flow Cell Monitored by Polarized TIRF Microscopy. Journal of Visualized Experiments, 2016, , .	0.3	7
28	Model of SNARE-Mediated Membrane Adhesion Kinetics. PLoS ONE, 2009, 4, e6375.	2.5	4
29	A Nanodisc-Cell Fusion Assay with Single-Pore Sensitivity and Sub-millisecond Time Resolution. Methods in Molecular Biology, 2019, 1860, 263-275.	0.9	4
30	Optimal Detection of Fusion Pore Dynamics Using Polarized Total Internal Reflection Fluorescence Microscopy. Frontiers in Molecular Biosciences, 2021, 8, 740408.	3.5	4
31	<scp>FEBS</scp> Letters Special Issue on Exocytosis and Endocytosis. FEBS Letters, 2018, 592, 3477-3479.	2.8	0