

Erdem Karatekin

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,655
citations

393982

19
h-index

454577

30
g-index

45
all docs

45
docs citations

45
times ranked

2005
citing authors

#	ARTICLE	IF	CITATIONS
1	Cascades of Transient Pores in Giant Vesicles: Line Tension and Transport. <i>Biophysical Journal</i> , 2003, 84, 1734-1749.	0.2	349
2	Analysis of Transient Behavior in Complex Trajectories: Application to Secretory Vesicle Dynamics. <i>Biophysical Journal</i> , 2006, 91, 3542-3559.	0.2	141
3	Mechanism of Cytokinetic Contractile Ring Constriction in Fission Yeast. <i>Developmental Cell</i> , 2014, 29, 547-561.	3.1	127
4	A fast, single-vesicle fusion assay mimics physiological SNARE requirements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3517-3521.	3.3	125
5	Three Myosins Contribute Uniquely to the Assembly and Constriction of the Fission Yeast Cytokinetic Contractile Ring. <i>Current Biology</i> , 2015, 25, 1955-1965.	1.8	85
6	A Programmable DNA Origami Platform to Organize SNAREs for Membrane Fusion. <i>Journal of the American Chemical Society</i> , 2016, 138, 4439-4447.	6.6	78
7	Interactive, Computer-Assisted Tracking of Speckle Trajectories in Fluorescence Microscopy: Application to Actin Polymerization and Membrane Fusion. <i>Biophysical Journal</i> , 2011, 101, 1794-1804.	0.2	77
8	Entropic forces drive self-organization and membrane fusion by SNARE proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5455-5460.	3.3	61
9	Single-molecule force spectroscopy of protein-membrane interactions. <i>ELife</i> , 2017, 6, .	2.8	59
10	Cholesterol Increases the Openness of SNARE-Mediated Flickering Fusion Pores. <i>Biophysical Journal</i> , 2016, 110, 1538-1550.	0.2	58
11	Dilation of fusion pores by crowding of SNARE proteins. <i>ELife</i> , 2017, 6, .	2.8	57
12	A human apolipoprotein L with detergent-like activity kills intracellular pathogens. <i>Science</i> , 2021, 373, .	6.0	50
13	FisB mediates membrane fission during sporulation in <i>Bacillus subtilis</i> . <i>Genes and Development</i> , 2013, 27, 322-334.	2.7	47
14	Fusion of single proteoliposomes with planar, cushioned bilayers in microfluidic flow cells. <i>Nature Protocols</i> , 2012, 7, 903-920.	5.5	41
15	Nanodisc-cell fusion: control of fusion pore nucleation and lifetimes by SNARE protein transmembrane domains. <i>Scientific Reports</i> , 2016, 6, 27287.	1.6	39
16	Sorting sub-150-nm liposomes of distinct sizes by DNA-brick-assisted centrifugation. <i>Nature Chemistry</i> , 2021, 13, 335-342.	6.6	34
17	Regulation of Exocytotic Fusion Pores by SNARE Protein Transmembrane Domains. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 315.	1.4	33
18	The neuronal calcium sensor Synaptotagmin-1 and SNARE proteins cooperate to dilate fusion pores. <i>ELife</i> , 2021, 10, .	2.8	29

#	ARTICLE	IF	CITATIONS
19	Leukocyte Cytoskeleton Polarization Is Initiated by Plasma Membrane Curvature from Cell Attachment. <i>Developmental Cell</i> , 2019, 49, 206-219.e7.	3.1	27
20	Rapid propagation of membrane tension at retinal bipolar neuron presynaptic terminals. <i>Science Advances</i> , 2022, 8, eabl4411.	4.7	22
21	Stepwise membrane binding of extended synaptotagmins revealed by optical tweezers. <i>Nature Chemical Biology</i> , 2022, 18, 313-320.	3.9	21
22	Toward a unified picture of the exocytotic fusion pore. <i>FEBS Letters</i> , 2018, 592, 3563-3585.	1.3	19
23	Retromer forms low order oligomers on supported lipid bilayers. <i>Journal of Biological Chemistry</i> , 2020, 295, 12305-12316.	1.6	13
24	Polybasic Patches in Both C2 Domains of Synaptotagmin-1 Are Required for Evoked Neurotransmitter Release. <i>Journal of Neuroscience</i> , 2022, 42, 5816-5829.	1.7	10
25	FisB relies on homo-oligomerization and lipid binding to catalyze membrane fission in bacteria. <i>PLoS Biology</i> , 2021, 19, e3001314.	2.6	9
26	DNA-Origami-Based Fluorescence Brightness Standards for Convenient and Fast Protein Counting in Live Cells. <i>Nano Letters</i> , 2020, 20, 8890-8896.	4.5	8
27	SNARE-mediated Fusion of Single Proteoliposomes with Tethered Supported Bilayers in a Microfluidic Flow Cell Monitored by Polarized TIRF Microscopy. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	7
28	Model of SNARE-Mediated Membrane Adhesion Kinetics. <i>PLoS ONE</i> , 2009, 4, e6375.	1.1	4
29	A Nanodisc-Cell Fusion Assay with Single-Pore Sensitivity and Sub-millisecond Time Resolution. <i>Methods in Molecular Biology</i> , 2019, 1860, 263-275.	0.4	4
30	Optimal Detection of Fusion Pore Dynamics Using Polarized Total Internal Reflection Fluorescence Microscopy. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 740408.	1.6	4
31	<sc>FEBS</sc> Letters Special Issue on Exocytosis and Endocytosis. <i>FEBS Letters</i> , 2018, 592, 3477-3479.	1.3	0