

Volker Kiessling

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,858
citations

218677

26
h-index

206112

48
g-index

63
all docs

63
docs citations

63
times ranked

3230
citing authors

#	ARTICLE	IF	CITATIONS
1	Endosomes supporting fusion mediated by vesicular stomatitis virus glycoprotein have distinctive motion and acidification. <i>Traffic</i> , 2022, , .	2.7	1
2	Membrane order regulates SNARE mediated vesicle fusion in insulin-secreting cells. <i>Biophysical Journal</i> , 2022, 121, 292a-293a.	0.5	1
3	Lassa virus glycoprotein-mediated membrane fusion with endosomal model membranes. <i>Biophysical Journal</i> , 2022, 121, 75a.	0.5	0
4	Flagellin outer domain dimerization modulates motility in pathogenic and soil bacteria from viscous environments. <i>Nature Communications</i> , 2022, 13, 1422.	12.8	10
5	ATP and large signaling metabolites flux through caspase-activated Pannexin 1 channels. <i>ELife</i> , 2021, 10, .	6.0	50
6	Ebola virus glycoprotein interacts with cholesterol to enhance membrane fusion and cell entry. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 181-189.	8.2	43
7	Conserved arginine residues in synaptotagmin 1 regulate fusion pore expansion through membrane contact. <i>Nature Communications</i> , 2021, 12, 761.	12.8	21
8	Structural Studies of Straight and Supercoiled Flagellar Filaments from <i>Campylobacter jejuni</i> . <i>Biophysical Journal</i> , 2021, 120, 174a-175a.	0.5	1
9	Distinct insulin Granule Subpopulations Contribute to the Secretary Pathology of Diabetes Types 1 and 2. <i>Biophysical Journal</i> , 2021, 120, 50a-51a.	0.5	0
10	Two Distinct Populations of Insulin Granules that Have Unique Properties. <i>Biophysical Journal</i> , 2020, 118, 402a.	0.5	0
11	HIV-cell membrane fusion intermediates are restricted by Serincs as revealed by cryo-electron and TIRF microscopy. <i>Journal of Biological Chemistry</i> , 2020, 295, 15183-15195.	3.4	42
12	Synaptotagmin α 7 enhances calcium α sensing of chromaffin cell granules and slows discharge of granule cargos. <i>Journal of Neurochemistry</i> , 2020, 154, 598-617.	3.9	20
13	Distinct insulin granule subpopulations implicated in the secretory pathology of diabetes types 1 and 2. <i>ELife</i> , 2020, 9, .	6.0	26
14	In vitro fusion of single synaptic and dense core vesicles reproduces key physiological properties. <i>Nature Communications</i> , 2019, 10, 3904.	12.8	37
15	Distinct reaction mechanisms for hyaluronan biosynthesis in different kingdoms of life. <i>Glycobiology</i> , 2018, 28, 108-121.	2.5	21
16	Complexin Binding to Membranes and Acceptor t-SNARE Complex Explains its Clamping and Stimulatory Effects on Fusion. <i>Biophysical Journal</i> , 2018, 114, 608a.	0.5	0
17	A molecular mechanism for calcium-mediated synaptotagmin-triggered exocytosis. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 911-917.	8.2	32
18	Quaternary structure of the small amino acid transporter OprG from <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 17267-17277.	3.4	4

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19	A quantized mechanism for activation of pannexin channels. <i>Nature Communications</i> , 2017, 8, 14324.	12.8	120
20	Complexin Binding to Membranes and Acceptor t-SNAREs Explains Its Clamping Effect on Fusion. <i>Biophysical Journal</i> , 2017, 113, 1235-1250.	0.5	31
21	Calcium-Mediated Docking and Fusion of Purified Dense Core Vesicles with Reconstituted Membranes. <i>Biophysical Journal</i> , 2017, 112, 395a-396a.	0.5	0
22	Asymmetric Phosphatidylethanolamine Distribution Controls Fusion Pore Lifetime and Probability. <i>Biophysical Journal</i> , 2017, 113, 1912-1915.	0.5	31
23	Reconstitution of calcium-mediated exocytosis of dense-core vesicles. <i>Science Advances</i> , 2017, 3, e1603208.	10.3	45
24	HIV virions sense plasma membrane heterogeneity for cell entry. <i>Science Advances</i> , 2017, 3, e1700338.	10.3	95
25	Planar Supported Membranes with Mobile SNARE Proteins and Quantitative Fluorescence Microscopy Assays to Study Synaptic Vesicle Fusion. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 72.	2.9	22
26	The role of cholesterol in membrane fusion. <i>Chemistry and Physics of Lipids</i> , 2016, 199, 136-143.	3.2	279
27	Line tension at lipid phase boundaries as driving force for HIV fusion peptide-mediated fusion. <i>Nature Communications</i> , 2016, 7, 11401.	12.8	120
28	Site-specific fluorescent labeling to visualize membrane translocation of a myristoyl switch protein. <i>Scientific Reports</i> , 2016, 6, 32866.	3.3	12
29	Assembly and Comparison of Plasma Membrane SNARE Acceptor Complexes. <i>Biophysical Journal</i> , 2016, 110, 2147-2150.	0.5	19
30	FLIC Microscopy Reveals Different Conformational States of Syntaxin 1a in Supported Lipid Bilayers. <i>Biophysical Journal</i> , 2016, 110, 248a.	0.5	0
31	Supported Lipid Bilayers as Models for Studying Membrane Domains. <i>Current Topics in Membranes</i> , 2015, 75, 1-23.	0.9	27
32	High Cholesterol Obviates a Prolonged Hemifusion Intermediate in Fast SNARE-Mediated Membrane Fusion. <i>Biophysical Journal</i> , 2015, 109, 319-329.	0.5	50
33	Reconstituting SNARE-mediated membrane fusion at the single liposome level. <i>Methods in Cell Biology</i> , 2015, 128, 339-363.	1.1	16
34	HIV gp41-mediated membrane fusion occurs at edges of cholesterol-rich lipid domains. <i>Nature Chemical Biology</i> , 2015, 11, 424-431.	8.0	175
35	Variable cooperativity in SNARE-mediated membrane fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12037-12042.	7.1	81
36	The Juxtamembrane Linker of Full-length Synaptotagmin 1 Controls Oligomerization and Calcium-dependent Membrane Binding. <i>Journal of Biological Chemistry</i> , 2014, 289, 22161-22171.	3.4	25

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37	Regulation of Rac translocation and activation by membrane domains and their boundaries. <i>Journal of Cell Science</i> , 2014, 127, 2565-76.	2.0	40
38	Pre-Fusion Structure of Syntaxin 1A Suggests Pathway for Folding into Neuronal Trans-Snare Complex Fusion Intermediate. <i>Biophysical Journal</i> , 2014, 106, 505a.	0.5	0
39	Rapid Fusion of Synaptic Vesicles with Reconstituted Target SNARE Membranes. <i>Biophysical Journal</i> , 2013, 104, 1950-1958.	0.5	39
40	Prefusion structure of syntaxin-1A suggests pathway for folding into neuronal trans-SNARE complex fusion intermediate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19384-19389.	7.1	56
41	Transbilayer Coupling of Lipid Dynamics. <i>Biophysical Journal</i> , 2012, 103, 2409-2410.	0.5	4
42	Partitioning of Synaptotagmin I C2 Domains between Liquid-Ordered and Liquid-Disordered Inner Leaflet Lipid Phases. <i>Biochemistry</i> , 2011, 50, 2478-2485.	2.5	14
43	Morphological Changes Induced by the Action of Antimicrobial Peptides on Supported Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2011, 115, 158-167.	2.6	33
44	Single vesicle millisecond fusion kinetics reveals number of SNARE complexes optimal for fast SNARE-mediated membrane fusion.. <i>Journal of Biological Chemistry</i> , 2010, 285, 11753.	3.4	5
45	Docking and Fast Fusion of Synaptobrevin Vesicles Depends on the Lipid Compositions of the Vesicle and the Acceptor SNARE Complex-Containing Target Membrane. <i>Biophysical Journal</i> , 2010, 99, 2936-2946.	0.5	64
46	Single SNARE-Mediated Vesicle Fusion Observed In Vitro by Polarized TIRFM. <i>Biophysical Journal</i> , 2010, 99, 4047-4055.	0.5	42
47	Fast Single Vesicle SNARE-Mediated Membrane Fusion Assay in Planar Supported Bilayers Reveals Details About Fusion Mechanism. <i>Biophysical Journal</i> , 2010, 98, 669a.	0.5	0
48	Single Vesicle Millisecond Fusion Kinetics Reveals Number of SNARE Complexes Optimal for Fast SNARE-mediated Membrane Fusion. <i>Journal of Biological Chemistry</i> , 2009, 284, 32158-32166.	3.4	148
49	Domain coupling in asymmetric lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 64-71.	2.6	194
50	Transbilayer Effects of Raft-Like Lipid Domains in Asymmetric Planar Bilayers Measured by Single Molecule Tracking. <i>Biophysical Journal</i> , 2006, 91, 3313-3326.	0.5	211
51	Potassium channel gating in adhesion: from an oocyte?silicon to a neuron?astrocyte adhesion contact. <i>European Biophysics Journal</i> , 2005, 34, 113-126.	2.2	1
52	Measuring Lipid Asymmetry in Planar Supported Bilayers by Fluorescence Interference Contrast Microscopy. <i>Langmuir</i> , 2005, 21, 1377-1388.	3.5	128
53	Imaging Fast SNARE Mediated-Membrane Fusion in Planar-Supported Bilayers. <i>Biophysical Journal</i> , 2005, 89, 2185-2186.	0.5	5
54	Membrane fusion: a structural perspective on the interplay of lipids and proteins. <i>Current Opinion in Structural Biology</i> , 2003, 13, 453-466.	5.7	172

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55	Measuring Distances in Supported Bilayers by Fluorescence Interference-Contrast Microscopy: Polymer Supports and SNARE Proteins. Biophysical Journal, 2003, 84, 408-418.	0.5	174
56	Extracellular Resistance in Cell Adhesion Measured with a Transistor Probe. Langmuir, 2000, 16, 3517-3521.	3.5	53