Volker Kiessling

List of Publications by Year
in descending order

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56	2,858	218677	206112
papers	citations	26 h-index	48 g-index

63	63	63	3230
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The role of cholesterol in membrane fusion. Chemistry and Physics of Lipids, 2016, 199, 136-143.	3.2	279
2	Transbilayer Effects of Raft-Like Lipid Domains in Asymmetric Planar Bilayers Measured by Single Molecule Tracking. Biophysical Journal, 2006, 91, 3313-3326.	0.5	211
3	Domain coupling in asymmetric lipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 64-71.	2.6	194
4	HIV gp41â€“mediated membrane fusion occurs at edges of cholesterol-rich lipid domains. Nature Chemical Biology, 2015, 11, 424-431.	8.0	175
5	Measuring Distances in Supported Bilayers by Fluorescence Interference-Contrast Microscopy: Polymer Supports and SNARE Proteins. Biophysical Journal, 2003, 84, 408-418.	0.5	174
6	Membrane fusion: a structural perspective on the interplay of lipids and proteins. Current Opinion in Structural Biology, 2003, 13, 453-466.	5.7	172
7	Single Vesicle Millisecond Fusion Kinetics Reveals Number of SNARE Complexes Optimal for Fast SNARE-mediated Membrane Fusion. Journal of Biological Chemistry, 2009, 284, 32158-32166.	3.4	148
8	Measuring Lipid Asymmetry in Planar Supported Bilayers by Fluorescence Interference Contrast Microscopy. Langmuir, 2005, 21, 1377-1388.	3.5	128
9	Line tension at lipid phase boundaries as driving force for HIV fusion peptide-mediated fusion. Nature Communications, 2016, 7, 11401.	12.8	120
10	A quantized mechanism for activation of pannexin channels. Nature Communications, 2017, 8, 14324.	12.8	120
11	HIV virions sense plasma membrane heterogeneity for cell entry. Science Advances, 2017, 3, e1700338.	10.3	95
12	Variable cooperativity in SNARE-mediated membrane fusion. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12037-12042.	7.1	81
13	Docking and Fast Fusion of Synaptobrevin Vesicles Depends on the Lipid Compositions of the Vesicle and the Acceptor SNARE Complex-Containing Target Membrane. Biophysical Journal, 2010, 99, 2936-2946.	0.5	64
14	Prefusion structure of syntaxin-1A suggests pathway for folding into neuronal trans -SNARE complex fusion intermediate. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19384-19389.	7.1	56
15	Extracellular Resistance in Cell Adhesion Measured with a Transistor Probe. Langmuir, 2000, 16, 3517-3521.	3.5	53
16	High Cholesterol Obviates a Prolonged Hemifusion Intermediate in Fast SNARE-Mediated Membrane Fusion. Biophysical Journal, 2015, 109, 319-329.	0.5	50
17	ATP and large signaling metabolites flux through caspase-activated Pannexin 1 channels. ELife, 2021, 10, .	6.0	50
18	Reconstitution of calcium-mediated exocytosis of dense-core vesicles. Science Advances, 2017, 3, e1603208.	10.3	45

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19	Ebola virus glycoprotein interacts with cholesterol to enhance membrane fusion and cell entry. Nature Structural and Molecular Biology, 2021, 28, 181-189.	8.2	43
20	Single SNARE-Mediated Vesicle Fusion Observed InÂVitro by Polarized TIRFM. Biophysical Journal, 2010, 99, 4047-4055.	0.5	42
21	HIV-cell membrane fusion intermediates are restricted by Serincs as revealed by cryo-electron and TIRF microscopy. Journal of Biological Chemistry, 2020, 295, 15183-15195.	3.4	42
22	Regulation of Rac translocation and activation by membrane domains and their boundaries. Journal of Cell Science, 2014, 127, 2565-76.	2.0	40
23	Rapid Fusion of Synaptic Vesicles with Reconstituted Target SNARE Membranes. Biophysical Journal, 2013, 104, 1950-1958.	0.5	39
24	In vitro fusion of single synaptic and dense core vesicles reproduces key physiological properties. Nature Communications, 2019, 10, 3904.	12.8	37
25	Morphological Changes Induced by the Action of Antimicrobial Peptides on Supported Lipid Bilayers. Journal of Physical Chemistry B, 2011, 115, 158-167.	2.6	33
26	A molecular mechanism for calcium-mediated synaptotagmin-triggered exocytosis. Nature Structural and Molecular Biology, 2018, 25, 911-917.	8.2	32
27	Complexin Binding to Membranes and Acceptor t-SNAREs Explains Its Clamping Effect on Fusion. Biophysical Journal, 2017, 113, 1235-1250.	0.5	31
28	Asymmetric Phosphatidylethanolamine Distribution Controls Fusion Pore Lifetime and Probability. Biophysical Journal, 2017, 113, 1912-1915.	0.5	31
29	Supported Lipid Bilayers as Models for Studying Membrane Domains. Current Topics in Membranes, 2015, 75, 1-23.	0.9	27
30	Distinct insulin granule subpopulations implicated in the secretory pathology of diabetes types 1 and 2. ELife, 2020, 9, .	6.0	26
31	The Juxtamembrane Linker of Full-length Synaptotagmin 1 Controls Oligomerization and Calcium-dependent Membrane Binding. Journal of Biological Chemistry, 2014, 289, 22161-22171.	3.4	25
32	Planar Supported Membranes with Mobile SNARE Proteins and Quantitative Fluorescence Microscopy Assays to Study Synaptic Vesicle Fusion. Frontiers in Molecular Neuroscience, 2017, 10, 72.	2.9	22
33	Distinct reaction mechanisms for hyaluronan biosynthesis in different kingdoms of life. Glycobiology, 2018, 28, 108-121.	2.5	21
34	Conserved arginine residues in synaptotagmin 1 regulate fusion pore expansion through membrane contact. Nature Communications, 2021, 12, 761.	12.8	21
35	Synaptotagminâ€7 enhances calciumâ€sensing of chromaffin cell granules and slows discharge of granule cargos. Journal of Neurochemistry, 2020, 154, 598-617.	3.9	20
36	Assembly and Comparison of Plasma Membrane SNARE Acceptor Complexes. Biophysical Journal, 2016, 110, 2147-2150.	0.5	19

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37	Reconstituting SNARE-mediated membrane fusion at the single liposome level. Methods in Cell Biology, 2015, 128, 339-363.	1.1	16
38	Partitioning of Synaptotagmin I C2 Domains between Liquid-Ordered and Liquid-Disordered Inner Leaflet Lipid Phases. Biochemistry, 2011, 50, 2478-2485.	2.5	14
39	Site-specific fluorescent labeling to visualize membrane translocation of a myristoyl switch protein. Scientific Reports, 2016, 6, 32866.	3.3	12
40	Flagellin outer domain dimerization modulates motility in pathogenic and soil bacteria from viscous environments. Nature Communications, 2022, 13, 1422.	12.8	10
41	Imaging Fast SNARE Mediated-Membrane Fusion in Planar-Supported Bilayers. Biophysical Journal, 2005, 89, 2185-2186.	0.5	5
42	Single vesicle millisecond fusion kinetics reveals number of SNARE complexes optimal for fast SNARE-mediated membrane fusion.. Journal of Biological Chemistry, 2010, 285, 11753.	3.4	5
43	Transbilayer Coupling of Lipid Dynamics. Biophysical Journal, 2012, 103, 2409-2410.	0.5	4
44	Quaternary structure of the small amino acid transporter OprG from Pseudomonas aeruginosa. Journal of Biological Chemistry, 2018, 293, 17267-17277.	3.4	4
45	Potassium channel gating in adhesion: from an oocyte?silicon to a neuron?astrocyte adhesion contact. European Biophysics Journal, 2005, 34, 113-126.	2.2	1
46	Structural Studies of Straight and Supercoiled Flagellar Filaments from Campylobacter jejuni. Biophysical Journal, 2021, 120, 174a-175a.	0.5	1
47	Endosomes supporting fusion mediated by vesicular stomatitis virus glycoprotein have distinctive motion and acidification. Traffic, 2022, , .	2.7	1
48	Membrane order regulates SNARE mediated vesicle fusion in insulin-secreting cells. Biophysical Journal, 2022, 121, 292a-293a.	0.5	1
49	Fast Single Vesicle SNARE-Mediated Membrane Fusion Assay in Planar Supported Bilayers Reveals Details About Fusion Mechanism. Biophysical Journal, 2010, 98, 669a.	0.5	0
50	Pre-Fusion Structure of Syntaxin 1A Suggests Pathway for Folding into Neuronal Trans-Snare Complex Fusion Intermediate. Biophysical Journal, 2014, 106, 505a.	0.5	0
51	FLIC Microscopy Reveals Different Conformational States of Syntaxin 1a in Supported Lipid Bilayers. Biophysical Journal, 2016, 110, 248a.	0.5	0
52	Calcium-Mediated Docking and Fusion of Purified Dense Core Vesicles with Reconstituted Membranes. Biophysical Journal, 2017, 112, 395a-396a.	0.5	0
53	Complexin Binding to Membranes and Acceptor t-SNARE Complex Explains its Clamping and Stimulatory Effects on Fusion. Biophysical Journal, 2018, 114, 608a.	0.5	0
54	Two Distinct Populations of Insulin Granules that Have Unique Properties. Biophysical Journal, 2020, 118, 402a.	0.5	0

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55	Distinct insulin Granule Subpopulations Contribute to the Secretory Pathology of Diabetes Types 1 and 2. Biophysical Journal, 2021, 120, 50a-51a.	0.5	0
56	Lassa virus glycoprotein-mediated membrane fusion with endosomal model membranes. Biophysical Journal, 2022, 121, 75a.	0.5	0