Anne K Kenworthy

List of Publications by Year
in descending order

97 papers	13,469 citations	70961 41 h-index	40881 93 g-index
108 all docs	108 docs citations	108 times ranked	22930 citing authors

#	Article	IF	Citations
1	High-Content Imaging Platform to Discover Chemical Modulators of Plasma Membrane Rafts. ACS Central Science, 2022, 8, 370-378.	5.3	10
2	Molecular architecture of the human caveolin-1 complex. Science Advances, 2022, 8, eabn7232.	4.7	49
3	The C99 domain of the amyloid precursor protein resides in the disordered membrane phase. Journal of Biological Chemistry, 2021, 296, 100652.	1.6	9
4	Lipid Peroxidation Enhances LO/LD Domain Phase Separation in Giant Plasma Membrane Vesicles. Biophysical Journal, 2021, 120, 324a.	0.2	2
5	Ceramide structure dictates glycosphingolipid nanodomain assembly and function. Nature Communications, 2021, 12, 3675.	5.8	27
6	Cholera Toxin as a Probe for Membrane Biology. Toxins, 2021, 13, 543.	1.5	30
7	Caveolae: The FAQs. Traffic, 2020, 21, 181-185.	1.3	65
8	Expression of a Human Caveolin-1 Mutation in Mice Drives Inflammatory and Metabolic Defect-Associated Pulmonary Arterial Hypertension. Frontiers in Medicine, 2020, 7, 540.	1.2	5
9	Choosing who can ride the raft. Nature Reviews Molecular Cell Biology, 2020, 21, 566-567.	16.1	2
10	Structured clustering of the glycosphingolipid GM1 is required for membrane curvature induced by cholera toxin. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14978-14986.	3.3	58
11	Peripheral myelin protein 22 preferentially partitions into ordered phase membrane domains. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14168-14177.	3.3	29
12	Structure and assembly of CAV1 8S complexes revealed by single particle electron microscopy. Science Advances, 2020, 6, .	4.7	23
13	Distinct insulin granule subpopulations implicated in the secretory pathology of diabetes types 1 and 2. ELife, 2020, 9, .	2.8	26
14	A novel computational framework for D(t) from Fluorescence Recovery after Photobleaching data reveals various anomalous diffusion types in live cell membranes. Traffic, 2019, 20, 867-880.	1.3	13
15	Investigation of F-BAR domain PACSIN proteins uncovers membrane tubulation function in cilia assembly and transport. Nature Communications, 2019, 10, 428.	5.8	43
16	Intracellular Degradation of Helicobacter pylori VacA Toxin as a Determinant of Gastric Epithelial Cell Viability. Infection and Immunity, 2019, 87, .	1.0	21
17	Bigger Isnâ€™t Always Better: Bulking Up Impedes Receptor Internalization. Biophysical Journal, 2018, 114, 1255-1256.	0.2	2
18	Determinants of Raft Partitioning of the Helicobacter pylori Pore-Forming Toxin VacA. Infection and Immunity, 2018, 86, .	1.0	15

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19	APC Inhibits Ligand-Independent Wnt Signaling by the Clathrin Endocytic Pathway. Developmental Cell, 2018, 44, 566-581.e8.	3.1	73
20	Dynamic pattern generation in cell membranes: Current insights into membrane organization. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2018-2031.	1.4	39
21	Friction Mediates Scission of Tubular Membranes Scaffolded by BAR Proteins. Cell, 2017, 170, 172-184.e11.	13.5	171
22	A disease-associated frameshift mutation in caveolin-1 disrupts caveolae formation and function through introduction of a de novo ER retention signal. Molecular Biology of the Cell, 2017, 28, 3095-3111.	0.9	37
23	Assembly and Turnover of Caveolae: What Do We Really Know?. Frontiers in Cell and Developmental Biology, 2016, 4, 68.	1.8	28
24	Clostridium difficile Toxin A Undergoes Clathrin-Independent, PACSIN2-Dependent Endocytosis. PLoS Pathogens, 2016, 12, e1006070.	2.1	39
25	Nuclear <scp>LC3</scp> Associates with Slowly Diffusing Complexes that Survey the Nucleolus. Traffic, 2016, 17, 369-399.	1.3	39
26	Glycolipid Crosslinking Is Required for Cholera Toxin to Partition Into and Stabilize Ordered Domains. Biophysical Journal, 2016, 111, 2547-2550.	0.2	34
27	Caveolin-1 is an aggresome-inducing protein. Scientific Reports, 2016, 6, 38681.	1.6	11
28	Analyzing Single Giant Unilamellar Vesicles With a Slotline-Based RF Nanometer Sensor. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 1339-1347.	2.9	9
29	Characterization of a caveolinâ€1 mutation associated with both pulmonary arterial hypertension and congenital generalized lipodystrophy. Traffic, 2016, 17, 1297-1312.	1.3	48
30	Size, organization, and dynamics of soluble SQSTM1 and LC3-SQSTM1 complexes in living cells. Autophagy, 2016, 12, 1660-1674.	4.3	18
31	Analysis of diffusion in curved surfaces and its application to tubular membranes. Molecular Biology of the Cell, 2016, 27, 3937-3946.	0.9	25
32	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
33	Topologically Diverse Human Membrane Proteins Partition to Liquid-Disordered Domains in Phase-Separated Lipid Vesicles. Biochemistry, 2016, 55, 985-988.	1.2	19
34	Microtubule Motors Drive Plasma Membrane Tubulation in Clathrin-Independent Endocytosis. Biophysical Journal, 2015, 108, 353a.	0.2	0
35	Validation of Normalizations, Scaling, and Photofading Corrections for FRAP Data Analysis. PLoS ONE, 2015, 10, e0127966.	1.1	25
36	Functions of cholera toxin B-subunit as a raft cross-linker. Essays in Biochemistry, 2015, 57, 135-145.	2.1	75

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37	Microtubule Motors Power Plasma Membrane Tubulation in Clathrinâ€independent Endocytosis. Traffic, 2015, 16, 572-590.	1.3	52
38	Heterozygous Null Bone Morphogenetic Protein Receptor Type 2 Mutations Promote SRC Kinase-dependent Caveolar Trafficking Defects and Endothelial Dysfunction in Pulmonary Arterial Hypertension. Journal of Biological Chemistry, 2015, 290, 960-971.	1.6	40
39	Preface. Current Topics in Membranes, 2015, 75, xiii-xvii.	0.5	1
40	Tagging Strategies Strongly Affect the Fate of Overexpressed Caveolinâ€1. Traffic, 2015, 16, 417-438.	1.3	24
41	Endophilin-A2 functions in membrane scission in clathrin-independent endocytosis. Nature, 2015, 517, 493-496.	13.7	276
42	Size, stoichiometry, and organization of soluble LC3-associated complexes. Autophagy, 2014, 10, 861-877.	4.3	19
43	Cholesterol as a coâ€solvent and a ligand for membrane proteins. Protein Science, 2014, 23, 1-22.	3.1	117
44	Motor and Tail Homology 1 (TH1) Domains Antagonistically Control Myosin-1 Dynamics. Biophysical Journal, 2014, 106, 649-658.	0.2	11
45	Overexpression of Caveolinâ€1 Is Sufficient to Phenocopy the Behavior of a Diseaseâ€Associated Mutant. Traffic, 2013, 14, 663-677.	1.3	28
46	Imaging protein complex formation in the autophagy pathway: analysis of the interaction of LC3 and Atg4B[sup C74A] in live cells using Fol̂rster resonance energy transfer and fluorescence recovery after photobleaching. Journal of Biomedical Optics, 2012, 17, 011008.	1.4	17
47	Analysis of Protein and Lipid Dynamics Using Confocal Fluorescence Recovery After Photobleaching (FRAP). Current Protocols in Cytometry, 2012, 62, Unit2.19.	3.7	63
48	Simplified Equation to Extract Diffusion Coefficients from Confocal <scp>FRAP</scp> Data. Traffic, 2012, 13, 1589-1600.	1.3	196
49	Lipid Sorting by Ceramide Structure from Plasma Membrane to ER for the Cholera Toxin Receptor Ganglioside GM1. Developmental Cell, 2012, 23, 573-586.	3.1	119
50	Mechanisms Underlying the Confined Diffusion of Cholera Toxin B-Subunit in Intact Cell Membranes. PLoS ONE, 2012, 7, e34923.	1.1	53
51	Coordinated regulation of caveolin-1 and Rab11a in apical recycling compartments of polarized epithelial cells. Experimental Cell Research, 2012, 318, 103-113.	1.2	24
52	Proposed Correction to Feder's Anomalous Diffusion FRAP Equations. Biophysical Journal, 2011, 100, 791-792.	0.2	11
53	Nucleocytoplasmic Distribution and Dynamics of the Autophagosome Marker EGFP-LC3. PLoS ONE, 2010, 5, e9806.	1.1	81
54	NHE3 mobility in brush borders increases upon NHERF2-dependent stimulation by lyophosphatidic acid. Journal of Cell Science, 2010, 123, 2434-2443.	1.2	20

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55	A Quantitative Approach to Analyze Binding Diffusion Kinetics by Confocal FRAP. Biophysical Journal, 2010, 99, 2737-2747.	0.2	60
56	Molecular consequences of altered neuronal cholesterol biosynthesis. Journal of Neuroscience Research, 2009, 87, 866-875.	1.3	37
57	Tracking microdomain dynamics in cell membranes. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 245-253.	1.4	103
58	On the Use of Ripley's K-Function and Its Derivatives to Analyze Domain Size. Biophysical Journal, 2009, 97, 1095-1103.	0.2	228
59	A Generalization of Theory for Two-Dimensional Fluorescence Recovery after Photobleaching Applicable to Confocal Laser Scanning Microscopes. Biophysical Journal, 2009, 97, 1501-1511.	0.2	89
60	Complex Applications of Simple FRAP on Membranes. , 2009, , 187-221.		6
61	Have we become overly reliant on lipid rafts? Talking Point on the involvement of lipid rafts in T-cell activation. EMBO Reports, 2008, 9, 531-535.	2.0	82
62	A Closed-Form Analytic Expression for FRAP Formula for the Binding Diffusion Model. Biophysical Journal, 2008, 95, L13-L15.	0.2	36
63	Lipid rafts, cholesterol, and the brain. Neuropharmacology, 2008, 55, 1265-1273.	2.0	263
64	Attenuated Endocytosis and Toxicity of a Mutant Cholera Toxin with Decreased Ability To Cluster Ganglioside GM ₁ Molecules. Infection and Immunity, 2008, 76, 1476-1484.	1.0	53
65	Myosin Vb Interacts with Rab8a on a Tubular Network Containing EHD1 and EHD3. Molecular Biology of the Cell, 2007, 18, 2828-2837.	0.9	145
66	In Silico Characterization of Resonance Energy Transfer for Disk-Shaped Membrane Domains. Biophysical Journal, 2007, 92, 3040-3051.	0.2	25
67	Breaking Up Isnâ€™t So Hard to Do. Biophysical Journal, 2007, 93, 2984-2985.	0.2	0
68	Nanoclusters digitize Ras signalling. Nature Cell Biology, 2007, 9, 875-877.	4.6	16
69	Fluorescence Recovery After Photobleaching Studies of Lipid Rafts. Methods in Molecular Biology, 2007, 398, 179-192.	0.4	47
70	The DNA Binding Activity of p53 Displays Reaction-Diffusion Kinetics. Biophysical Journal, 2006, 91, 330-342.	0.2	70
71	Fluorescence-based methods to image palmitoylated proteins. Methods, 2006, 40, 198-205.	1.9	22
72	Antibody-specific detection of caveolin-1 in subapical compartments of MDCK cells. Histochemistry and Cell Biology, 2006, 126, 27-34.	0.8	26

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73	Fleeting Glimpses of Lipid Rafts: How Biophysics is Being used to Track Them. Journal of Investigative Medicine, 2005, 53, 312-317.	0.7	14
74	Studying Spatial Distributions of Influenza Hemagglutinin on the Plasma Membrane of Fibroblasts: A Work in Progress. Macromolecular Symposia, 2005, 219, 17-24.	0.4	1
75	Quantitative electron microscopy and fluorescence spectroscopy of the membrane distribution of influenza hemagglutinin. Journal of Cell Biology, 2005, 169, 965-976.	2.3	104
76	Depalmitoylated Ras traffics to and from the Golgi complex via a nonvesicular pathway. Journal of Cell Biology, 2005, 170, 261-272.	2.3	263
77	Photobleaching approaches to investigate diffusional mobility and trafficking of Ras in living cells. Methods, 2005, 37, 154-164.	1.9	80
78	Ras Diffusion Is Sensitive to Plasma Membrane Viscosity. Biophysical Journal, 2005, 89, 1398-1410.	0.2	119
79	Photobleaching FRET Microscopy. , 2005, , 146-164.		8
80	The lateral mobility of NHE3 on the apical membrane of renal epithelial OK cells is limited by the PDZ domain proteins NHERF1/2, but is dependent on an intact actin cytoskeleton as determined by FRAP. Journal of Cell Science, 2004, 117, 3353-3365.	1.2	61
81	Dynamics of putative raft-associated proteins at the cell surface. Journal of Cell Biology, 2004, 165, 735-746.	2.3	432
82	Peering inside lipid rafts and caveolae. Trends in Biochemical Sciences, 2002, 27, 435-438.	3.7	70
83	Imaging Protein-Protein Interactions Using Fluorescence Resonance Energy Transfer Microscopy. Methods, 2001, 24, 289-296.	1.9	460
84	Studying protein dynamics in living cells. Nature Reviews Molecular Cell Biology, 2001, 2, 444-456.	16.1	1,112
85	Rapid Cycling of Lipid Raft Markers between the Cell Surface and Golgi Complex. Journal of Cell Biology, 2001, 153, 529-542.	2.3	496
86	High-Resolution FRET Microscopy of Cholera Toxin B-Subunit and GPI-anchored Proteins in Cell Plasma Membranes. Molecular Biology of the Cell, 2000, 11, 1645-1655.	0.9	428
87	Dynamics and retention of misfolded proteins in native ER membranes. Nature Cell Biology, 2000, 2, 288-295.	4.6	251
88	Imaging Fluorescence Resonance Energy Transfer as Probe of Membrane Organization and Molecular Associations of GPI-Anchored Proteins. , 1999, 116, 37-50.		36
89	Distribution of a Glycosylphosphatidylinositol-anchored Protein at the Apical Surface of MDCK Cells Examined at a Resolution of <100 Ã... Using Imaging Fluorescence Resonance Energy Transfer. Journal of Cell Biology, 1998, 142, 69-84.	2.3	450
90	Light Microscopy Beyond the Wavelength Limit: Methods for Characterizing Cell Surface Membranes. Microscopy and Microanalysis, 1998, 4, 1018-1019.	0.2	0

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91	Effect of Bilayer Composition on the Phase Behavior of Liposomal Suspensions Containing Poly(ethylene glycol)-Lipids. Macromolecules, 1995, 28, 7693-7699.	2.2	101
92	Structure and phase behavior of lipid suspensions containing phospholipids with covalently attached poly(ethylene glycol). Biophysical Journal, 1995, 68, 1903-1920.	0.2	217
93	Range and magnitude of the steric pressure between bilayers containing phospholipids with covalently attached poly(ethylene glycol). Biophysical Journal, 1995, 68, 1921-1936.	0.2	360
94	Colloid Osmotic Pressure of Steer and Î²-Crystallins: Possible Functional Roles for Lens Crystallin Distribution and Structural Diversity. Experimental Eye Research, 1994, 59, 11-30.	1.2	32
95	Intermolecular protein interactions in solutions of bovine lens beta L-crystallin. Results from 1/T1 nuclear magnetic relaxation dispersion profiles. Biophysical Journal, 1993, 64, 1178-1186.	0.2	12
96	Colloid osmotic pressure of steer crystallins: Implications for the origin of the refractive index gradient and transparency of the lens. Experimental Eye Research, 1992, 55, 615-627.	1.2	14
97	The hydration pressure between lipid bilayers. Comparison of measurements using x-ray diffraction and calorimetry. Biophysical Journal, 1991, 59, 538-546.	0.2	49