

# Anne K Kenworthy

## List of Publications by Year in Descending Order

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**Version:** 2024-04-05

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98 papers	11,167 citations	38 h-index	105 g-index
108 ext. papers	12,545 ext. citations	7 avg, IF	6.07 L-index

#	Paper	IF	Citations
98	High-Content Imaging Platform to Discover Chemical Modulators of Plasma Membrane Rafts.. <i>ACS Central Science</i> , <b>2022</b> , 8, 370-378	16.8	1
97	Molecular architecture of the human caveolin-1 complex.. <i>Science Advances</i> , <b>2022</b> , 8, eabn7232	14.3	2
96	Ceramide structure dictates glycosphingolipid nanodomain assembly and function. <i>Nature Communications</i> , <b>2021</b> , 12, 3675	17.4	8
95	The C99 domain of the amyloid precursor protein resides in the disordered membrane phase. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100652	5.4	2
94	Cholera Toxin as a Probe for Membrane Biology. <i>Toxins</i> , <b>2021</b> , 13,	4.9	4
93	Structured clustering of the glycosphingolipid GM1 is required for membrane curvature induced by cholera toxin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 14978-14986	11.5	24
92	Peripheral myelin protein 22 preferentially partitions into ordered phase membrane domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 14168-14177	11.5	16
91	Structure and assembly of CAV1 8S complexes revealed by single particle electron microscopy. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	8
90	Distinct insulin granule subpopulations implicated in the secretory pathology of diabetes types 1 and 2. <i>ELife</i> , <b>2020</b> , 9,	8.9	5
89	Expression of a Human Caveolin-1 Mutation in Mice Drives Inflammatory and Metabolic Defect-Associated Pulmonary Arterial Hypertension. <i>Frontiers in Medicine</i> , <b>2020</b> , 7, 540	4.9	1
88	Choosing who can ride the raft. <i>Nature Reviews Molecular Cell Biology</i> , <b>2020</b> , 21, 566-567	48.7	1
87	Caveolae: The FAQs. <i>Traffic</i> , <b>2020</b> , 21, 181-185	5.7	34
86	Investigation of F-BAR domain PACSIN proteins uncovers membrane tubulation function in cilia assembly and transport. <i>Nature Communications</i> , <b>2019</b> , 10, 428	17.4	27
85	Intracellular Degradation of Helicobacter pylori VacA Toxin as a Determinant of Gastric Epithelial Cell Viability. <i>Infection and Immunity</i> , <b>2019</b> , 87,	3.7	10
84	A novel computational framework for D(t) from Fluorescence Recovery after Photobleaching data reveals various anomalous diffusion types in live cell membranes. <i>Traffic</i> , <b>2019</b> , 20, 867-880	5.7	10
83	Bigger Isn't Always Better: Bulking Up Impedes Receptor Internalization. <i>Biophysical Journal</i> , <b>2018</b> , 114, 1255-1256	2.9	2
82	Determinants of Raft Partitioning of the Helicobacter pylori Pore-Forming Toxin VacA. <i>Infection and Immunity</i> , <b>2018</b> , 86,	3.7	10

81	APC Inhibits Ligand-Independent Wnt Signaling by the Clathrin Endocytic Pathway. <i>Developmental Cell</i> , <b>2018</b> , 44, 566-581.e8	10.2	54
80	Dynamic pattern generation in cell membranes: Current insights into membrane organization. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2018</b> , 1860, 2018-2031	3.8	26
79	Friction Mediates Scission of Tubular Membranes Scaffolded by BAR Proteins. <i>Cell</i> , <b>2017</b> , 170, 172-184.e16	10.2	128
78	A disease-associated frameshift mutation in caveolin-1 disrupts caveolae formation and function through introduction of a de novo ER retention signal. <i>Molecular Biology of the Cell</i> , <b>2017</b> , 28, 3095-3111	3.5	20
77	Size, organization, and dynamics of soluble SQSTM1 and LC3-SQSTM1 complexes in living cells. <i>Autophagy</i> , <b>2016</b> , 12, 1660-74	10.2	11
76	Analysis of diffusion in curved surfaces and its application to tubular membranes. <i>Molecular Biology of the Cell</i> , <b>2016</b> , 27, 3937-3946	3.5	13
75	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222	10.2	3838
74	Topologically Diverse Human Membrane Proteins Partition to Liquid-Disordered Domains in Phase-Separated Lipid Vesicles. <i>Biochemistry</i> , <b>2016</b> , 55, 985-8	3.2	14
73	Assembly and Turnover of Caveolae: What Do We Really Know?. <i>Frontiers in Cell and Developmental Biology</i> , <b>2016</b> , 4, 68	5.7	17
72	Clostridium difficile Toxin A Undergoes Clathrin-Independent, PACSIN2-Dependent Endocytosis. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1006070	7.6	25
71	Nuclear LC3 Associates with Slowly Diffusing Complexes that Survey the Nucleolus. <i>Traffic</i> , <b>2016</b> , 17, 369-99	5.7	24
70	Glycolipid Crosslinking Is Required for Cholera Toxin to Partition Into and Stabilize Ordered Domains. <i>Biophysical Journal</i> , <b>2016</b> , 111, 2547-2550	2.9	23
69	Caveolin-1 is an aggresome-inducing protein. <i>Scientific Reports</i> , <b>2016</b> , 6, 38681	4.9	6
68	Analyzing Single Giant Unilamellar Vesicles With a Slotline-Based RF Nanometer Sensor. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 1339-1347	4.1	7
67	Characterization of a caveolin-1 mutation associated with both pulmonary arterial hypertension and congenital generalized lipodystrophy. <i>Traffic</i> , <b>2016</b> , 17, 1297-1312	5.7	32
66	Microtubule motors power plasma membrane tubulation in clathrin-independent endocytosis. <i>Traffic</i> , <b>2015</b> , 16, 572-90	5.7	36
65	Heterozygous null bone morphogenetic protein receptor type 2 mutations promote SRC kinase-dependent caveolar trafficking defects and endothelial dysfunction in pulmonary arterial hypertension. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 960-71	5.4	35
64	Lipid Domains. Preface. <i>Current Topics in Membranes</i> , <b>2015</b> , 75, xiii-xvii	2.2	1

63	Tagging strategies strongly affect the fate of overexpressed caveolin-1. <i>Traffic</i> , <b>2015</b> , 16, 417-38	5.7	21
62	Endophilin-A2 functions in membrane scission in clathrin-independent endocytosis. <i>Nature</i> , <b>2015</b> , 517, 493-6	50.4	213
61	Validation of Normalizations, Scaling, and Photofading Corrections for FRAP Data Analysis. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127966	3.7	14
60	Functions of cholera toxin B-subunit as a raft cross-linker. <i>Essays in Biochemistry</i> , <b>2015</b> , 57, 135-45	7.6	45
59	Motor and tail homology 1 (Th1) domains antagonistically control myosin-1 dynamics. <i>Biophysical Journal</i> , <b>2014</b> , 106, 649-58	2.9	9
58	Size, stoichiometry, and organization of soluble LC3-associated complexes. <i>Autophagy</i> , <b>2014</b> , 10, 861-77	10.2	16
57	Cholesterol as a co-solvent and a ligand for membrane proteins. <i>Protein Science</i> , <b>2014</b> , 23, 1-22	6.3	91
56	Overexpression of caveolin-1 is sufficient to phenocopy the behavior of a disease-associated mutant. <i>Traffic</i> , <b>2013</b> , 14, 663-77	5.7	21
55	Coordinated regulation of caveolin-1 and Rab11a in apical recycling compartments of polarized epithelial cells. <i>Experimental Cell Research</i> , <b>2012</b> , 318, 103-13	4.2	23
54	Analysis of protein and lipid dynamics using confocal fluorescence recovery after photobleaching (FRAP). <i>Current Protocols in Cytometry</i> , <b>2012</b> , Chapter 2, Unit2.19	3.6	55
53	Simplified equation to extract diffusion coefficients from confocal FRAP data. <i>Traffic</i> , <b>2012</b> , 13, 1589-600	9.7	126
52	Lipid sorting by ceramide structure from plasma membrane to ER for the cholera toxin receptor ganglioside GM1. <i>Developmental Cell</i> , <b>2012</b> , 23, 573-86	10.2	90
51	Mechanisms underlying the confined diffusion of cholera toxin B-subunit in intact cell membranes. <i>PLoS ONE</i> , <b>2012</b> , 7, e34923	3.7	42
50	Imaging protein complex formation in the autophagy pathway: analysis of the interaction of LC3 and Atg4B(C74A) in live cells using Föster resonance energy transfer and fluorescence recovery after photobleaching. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 011008	3.5	17
49	Proposed correction to Feder's anomalous diffusion FRAP equations. <i>Biophysical Journal</i> , <b>2011</b> , 100, 791-792	2.9	10
48	Nucleocytoplasmic distribution and dynamics of the autophagosome marker EGFP-LC3. <i>PLoS ONE</i> , <b>2010</b> , 5, e9806	3.7	70
47	NHE3 mobility in brush borders increases upon NHERF2-dependent stimulation by lyophosphatidic acid. <i>Journal of Cell Science</i> , <b>2010</b> , 123, 2434-43	5.3	19
46	A quantitative approach to analyze binding diffusion kinetics by confocal FRAP. <i>Biophysical Journal</i> , <b>2010</b> , 99, 2737-47	2.9	48

45	Molecular consequences of altered neuronal cholesterol biosynthesis. <i>Journal of Neuroscience Research</i> , <b>2009</b> , 87, 866-75	4.4	31
44	Tracking microdomain dynamics in cell membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2009</b> , 1788, 245-53	3.8	89
43	On the use of Ripley's K-function and its derivatives to analyze domain size. <i>Biophysical Journal</i> , <b>2009</b> , 97, 1095-103	2.9	159
42	A generalization of theory for two-dimensional fluorescence recovery after photobleaching applicable to confocal laser scanning microscopes. <i>Biophysical Journal</i> , <b>2009</b> , 97, 1501-11	2.9	74
41	Complex Applications of Simple FRAP on Membranes <b>2009</b> , 187-221		5
40	Have we become overly reliant on lipid rafts? Talking Point on the involvement of lipid rafts in T-cell activation. <i>EMBO Reports</i> , <b>2008</b> , 9, 531-5	6.5	76
39	A closed-form analytic expression for FRAP formula for the binding diffusion model. <i>Biophysical Journal</i> , <b>2008</b> , 95, L13-5	2.9	31
38	Lipid rafts, cholesterol, and the brain. <i>Neuropharmacology</i> , <b>2008</b> , 55, 1265-73	5.5	215
37	Attenuated endocytosis and toxicity of a mutant cholera toxin with decreased ability to cluster ganglioside GM1 molecules. <i>Infection and Immunity</i> , <b>2008</b> , 76, 1476-84	3.7	45
36	In silico characterization of resonance energy transfer for disk-shaped membrane domains. <i>Biophysical Journal</i> , <b>2007</b> , 92, 3040-51	2.9	24
35	Breaking up isn't so hard to do. <i>Biophysical Journal</i> , <b>2007</b> , 93, 2984-5	2.9	
34	Myosin Vb interacts with Rab8a on a tubular network containing EHD1 and EHD3. <i>Molecular Biology of the Cell</i> , <b>2007</b> , 18, 2828-37	3.5	132
33	Fluorescence recovery after photobleaching studies of lipid rafts. <i>Methods in Molecular Biology</i> , <b>2007</b> , 398, 179-92	1.4	45
32	The DNA binding activity of p53 displays reaction-diffusion kinetics. <i>Biophysical Journal</i> , <b>2006</b> , 91, 330-42.	2.9	63
31	Fluorescence-based methods to image palmitoylated proteins. <i>Methods</i> , <b>2006</b> , 40, 198-205	4.6	19
30	Antibody-specific detection of caveolin-1 in subapical compartments of MDCK cells. <i>Histochemistry and Cell Biology</i> , <b>2006</b> , 126, 27-34	2.4	24
29	Photobleaching approaches to investigate diffusional mobility and trafficking of Ras in living cells. <i>Methods</i> , <b>2005</b> , 37, 154-64	4.6	72
28	Ras diffusion is sensitive to plasma membrane viscosity. <i>Biophysical Journal</i> , <b>2005</b> , 89, 1398-410	2.9	104

27	Fleeting glimpses of lipid rafts: how biophysics is being used to track them. <i>Journal of Investigative Medicine</i> , <b>2005</b> , 53, 312-7	2.9	13
26	Studying Spatial Distributions of Influenza Hemagglutinin on the Plasma Membrane of Fibroblasts: A Work in Progress. <i>Macromolecular Symposia</i> , <b>2005</b> , 219, 17-24	0.8	
25	Quantitative electron microscopy and fluorescence spectroscopy of the membrane distribution of influenza hemagglutinin. <i>Journal of Cell Biology</i> , <b>2005</b> , 169, 965-76	7.3	93
24	Depalmitoylated Ras traffics to and from the Golgi complex via a nonvesicular pathway. <i>Journal of Cell Biology</i> , <b>2005</b> , 170, 261-72	7.3	238
23	Photobleaching FRET Microscopy <b>2005</b> , 146-164		8
22	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. <i>Journal of Cell Science</i> , <b>2004</b> , 117, 3353-65	5.3	59
21	Dynamics of putative raft-associated proteins at the cell surface. <i>Journal of Cell Biology</i> , <b>2004</b> , 165, 735-46	4.3	387
20	Peering inside lipid rafts and caveolae. <i>Trends in Biochemical Sciences</i> , <b>2002</b> , 27, 435-7	10.3	67
19	Studying protein dynamics in living cells. <i>Nature Reviews Molecular Cell Biology</i> , <b>2001</b> , 2, 444-56	48.7	992
18	Rapid cycling of lipid raft markers between the cell surface and Golgi complex. <i>Journal of Cell Biology</i> , <b>2001</b> , 153, 529-41	7.3	462
17	Imaging protein-protein interactions using fluorescence resonance energy transfer microscopy. <i>Methods</i> , <b>2001</b> , 24, 289-96	4.6	425
16	High-resolution FRET microscopy of cholera toxin B-subunit and GPI-anchored proteins in cell plasma membranes. <i>Molecular Biology of the Cell</i> , <b>2000</b> , 11, 1645-55	3.5	402
15	Dynamics and retention of misfolded proteins in native ER membranes. <i>Nature Cell Biology</i> , <b>2000</b> , 2, 288-94	2.4	232
14	Imaging fluorescence resonance energy transfer as probe of membrane organization and molecular associations of GPI-anchored proteins. <i>Methods in Molecular Biology</i> , <b>1999</b> , 116, 37-49	1.4	32
13	Distribution of a glycosylphosphatidylinositol-anchored protein at the apical surface of MDCK cells examined at a resolution of . <i>Journal of Cell Biology</i> , <b>1998</b> , 142, 69-84	7.3	426
12	Light Microscopy Beyond the Wavelength Limit: Methods for Characterizing Cell Surface Membranes. <i>Microscopy and Microanalysis</i> , <b>1998</b> , 4, 1018-1019	0.5	
11	Effect of Bilayer Composition on the Phase Behavior of Liposomal Suspensions Containing Poly(ethylene glycol)-Lipids. <i>Macromolecules</i> , <b>1995</b> , 28, 7693-7699	5.5	91
10	Structure and phase behavior of lipid suspensions containing phospholipids with covalently attached poly(ethylene glycol). <i>Biophysical Journal</i> , <b>1995</b> , 68, 1903-20	2.9	197

9	Range and magnitude of the steric pressure between bilayers containing phospholipids with covalently attached poly(ethylene glycol). <i>Biophysical Journal</i> , <b>1995</b> , 68, 1921-36	2.9	309
8	Colloid osmotic pressure of steer alpha- and beta-crystallins: possible functional roles for lens crystallin distribution and structural diversity. <i>Experimental Eye Research</i> , <b>1994</b> , 59, 11-30	3.7	26
7	Intermolecular protein interactions in solutions of bovine lens beta L-crystallin. Results from 1/T1 nuclear magnetic relaxation dispersion profiles. <i>Biophysical Journal</i> , <b>1993</b> , 64, 1178-86	2.9	11
6	Colloid osmotic pressure of steer crystallins: implications for the origin of the refractive index gradient and transparency of the lens. <i>Experimental Eye Research</i> , <b>1992</b> , 55, 615-27	3.7	11
5	The hydration pressure between lipid bilayers. Comparison of measurements using x-ray diffraction and calorimetry. <i>Biophysical Journal</i> , <b>1991</b> , 59, 538-46	2.9	46
4	Cell Membrane Dynamics1		1
3	Peripheral Myelin Protein 22 Preferentially Partitions into Ordered Phase Membrane Domains		1
2	Structure and assembly of CAV1 8S complexes revealed by single particle electron microscopy		1
1	Molecular architecture of the human caveolin-1 complex		1