

# Anne K Kenworthy

## List of Publications by Year in descending order

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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	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Studying protein dynamics in living cells. <i>Nature Reviews Molecular Cell Biology</i> , 2001, 2, 444-456.	16.1	1,112
3	Rapid Cycling of Lipid Raft Markers between the Cell Surface and Golgi Complex. <i>Journal of Cell Biology</i> , 2001, 153, 529-542.	2.3	496
4	Imaging Protein-Protein Interactions Using Fluorescence Resonance Energy Transfer Microscopy. <i>Methods</i> , 2001, 24, 289-296.	1.9	460
5	Distribution of a Glycosylphosphatidylinositol-anchored Protein at the Apical Surface of MDCK Cells Examined at a Resolution of $\approx 100 \text{ \AA}$ ... Using Imaging Fluorescence Resonance Energy Transfer. <i>Journal of Cell Biology</i> , 1998, 142, 69-84.	2.3	450
6	Dynamics of putative raft-associated proteins at the cell surface. <i>Journal of Cell Biology</i> , 2004, 165, 735-746.	2.3	432
7	High-Resolution FRET Microscopy of Cholera Toxin B-Subunit and GPI-anchored Proteins in Cell Plasma Membranes. <i>Molecular Biology of the Cell</i> , 2000, 11, 1645-1655.	0.9	428
8	Range and magnitude of the steric pressure between bilayers containing phospholipids with covalently attached poly(ethylene glycol). <i>Biophysical Journal</i> , 1995, 68, 1921-1936.	0.2	360
9	Endophilin-A2 functions in membrane scission in clathrin-independent endocytosis. <i>Nature</i> , 2015, 517, 493-496.	13.7	276
10	Depalmitoylated Ras traffics to and from the Golgi complex via a nonvesicular pathway. <i>Journal of Cell Biology</i> , 2005, 170, 261-272.	2.3	263
11	Lipid rafts, cholesterol, and the brain. <i>Neuropharmacology</i> , 2008, 55, 1265-1273.	2.0	263
12	Dynamics and retention of misfolded proteins in native ER membranes. <i>Nature Cell Biology</i> , 2000, 2, 288-295.	4.6	251
13	On the Use of Ripley's K-Function and Its Derivatives to Analyze Domain Size. <i>Biophysical Journal</i> , 2009, 97, 1095-1103.	0.2	228
14	Structure and phase behavior of lipid suspensions containing phospholipids with covalently attached poly(ethylene glycol). <i>Biophysical Journal</i> , 1995, 68, 1903-1920.	0.2	217
15	Simplified Equation to Extract Diffusion Coefficients from Confocal <sc>FRAP</sc> Data. <i>Traffic</i> , 2012, 13, 1589-1600.	1.3	196
16	Friction Mediates Scission of Tubular Membranes Scaffolded by BAR Proteins. <i>Cell</i> , 2017, 170, 172-184.e11.	13.5	171
17	Myosin Vb Interacts with Rab8a on a Tubular Network Containing EHD1 and EHD3. <i>Molecular Biology of the Cell</i> , 2007, 18, 2828-2837.	0.9	145
18	Ras Diffusion Is Sensitive to Plasma Membrane Viscosity. <i>Biophysical Journal</i> , 2005, 89, 1398-1410.	0.2	119

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19	Lipid Sorting by Ceramide Structure from Plasma Membrane to ER for the Cholera Toxin Receptor Ganglioside GM1. <i>Developmental Cell</i> , 2012, 23, 573-586.	3.1	119
20	Cholesterol as a solvent and a ligand for membrane proteins. <i>Protein Science</i> , 2014, 23, 1-22.	3.1	117
21	Quantitative electron microscopy and fluorescence spectroscopy of the membrane distribution of influenza hemagglutinin. <i>Journal of Cell Biology</i> , 2005, 169, 965-976.	2.3	104
22	Tracking microdomain dynamics in cell membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 245-253.	1.4	103
23	Effect of Bilayer Composition on the Phase Behavior of Liposomal Suspensions Containing Poly(ethylene glycol)-Lipids. <i>Macromolecules</i> , 1995, 28, 7693-7699.	2.2	101
24	A Generalization of Theory for Two-Dimensional Fluorescence Recovery after Photobleaching Applicable to Confocal Laser Scanning Microscopes. <i>Biophysical Journal</i> , 2009, 97, 1501-1511.	0.2	89
25	Have we become overly reliant on lipid rafts? Talking Point on the involvement of lipid rafts in T-cell activation. <i>EMBO Reports</i> , 2008, 9, 531-535.	2.0	82
26	Nucleocytoplasmic Distribution and Dynamics of the Autophagosome Marker EGFP-LC3. <i>PLoS ONE</i> , 2010, 5, e9806.	1.1	81
27	Photobleaching approaches to investigate diffusional mobility and trafficking of Ras in living cells. <i>Methods</i> , 2005, 37, 154-164.	1.9	80
28	Functions of cholera toxin B-subunit as a raft cross-linker. <i>Essays in Biochemistry</i> , 2015, 57, 135-145.	2.1	75
29	APC Inhibits Ligand-Independent Wnt Signaling by the Clathrin Endocytic Pathway. <i>Developmental Cell</i> , 2018, 44, 566-581.e8.	3.1	73
30	Peering inside lipid rafts and caveolae. <i>Trends in Biochemical Sciences</i> , 2002, 27, 435-438.	3.7	70
31	The DNA Binding Activity of p53 Displays Reaction-Diffusion Kinetics. <i>Biophysical Journal</i> , 2006, 91, 330-342.	0.2	70
32	Caveolae: The FAQs. <i>Traffic</i> , 2020, 21, 181-185.	1.3	65
33	Analysis of Protein and Lipid Dynamics Using Confocal Fluorescence Recovery After Photobleaching (FRAP). <i>Current Protocols in Cytometry</i> , 2012, 62, Unit2.19.	3.7	63
34	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> , 2004, 117, 3353-3365.	1.2	61
35	A Quantitative Approach to Analyze Binding Diffusion Kinetics by Confocal FRAP. <i>Biophysical Journal</i> , 2010, 99, 2737-2747.	0.2	60
36	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> , 2020, 117, 14978-14986.	3.3	58

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37	Attenuated Endocytosis and Toxicity of a Mutant Cholera Toxin with Decreased Ability To Cluster Ganglioside GM 1 Molecules. <i>Infection and Immunity</i> , 2008, 76, 1476-1484.	1.0	53
38	Mechanisms Underlying the Confined Diffusion of Cholera Toxin B-Subunit in Intact Cell Membranes. <i>PLoS ONE</i> , 2012, 7, e34923.	1.1	53
39	Microtubule Motors Power Plasma Membrane Tubulation in Clathrin-Independent Endocytosis. <i>Traffic</i> , 2015, 16, 572-590.	1.3	52
40	The hydration pressure between lipid bilayers. Comparison of measurements using x-ray diffraction and calorimetry. <i>Biophysical Journal</i> , 1991, 59, 538-546.	0.2	49
41	Molecular architecture of the human caveolin-1 complex. <i>Science Advances</i> , 2022, 8, eabn7232.	4.7	49
42	Characterization of a caveolin-1 mutation associated with both pulmonary arterial hypertension and congenital generalized lipodystrophy. <i>Traffic</i> , 2016, 17, 1297-1312.	1.3	48
43	Fluorescence Recovery After Photobleaching Studies of Lipid Rafts. <i>Methods in Molecular Biology</i> , 2007, 398, 179-192.	0.4	47
44	Investigation of F-BAR domain PACSIN proteins uncovers membrane tubulation function in cilia assembly and transport. <i>Nature Communications</i> , 2019, 10, 428.	5.8	43
45	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> , 2015, 290, 960-971.	1.6	40
46	<i>Clostridium difficile</i> Toxin A Undergoes Clathrin-Independent, PACSIN2-Dependent Endocytosis. <i>PLoS Pathogens</i> , 2016, 12, e1006070.	2.1	39
47	Nuclear LC3 Associates with Slowly Diffusing Complexes that Survey the Nucleolus. <i>Traffic</i> , 2016, 17, 369-399.	1.3	39
48	Dynamic pattern generation in cell membranes: Current insights into membrane organization. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 2018-2031.	1.4	39
49	Molecular consequences of altered neuronal cholesterol biosynthesis. <i>Journal of Neuroscience Research</i> , 2009, 87, 866-875.	1.3	37
50	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> , 2017, 28, 3095-3111.	0.9	37
51	Imaging Fluorescence Resonance Energy Transfer as Probe of Membrane Organization and Molecular Associations of GPI-Anchored Proteins. , 1999, 116, 37-50.		36
52	A Closed-Form Analytic Expression for FRAP Formula for the Binding Diffusion Model. <i>Biophysical Journal</i> , 2008, 95, L13-L15.	0.2	36
53	Glycolipid Crosslinking Is Required for Cholera Toxin to Partition Into and Stabilize Ordered Domains. <i>Biophysical Journal</i> , 2016, 111, 2547-2550.	0.2	34
54	Colloid Osmotic Pressure of Steer and Î²-Crystallins: Possible Functional Roles for Lens Crystallin Distribution and Structural Diversity. <i>Experimental Eye Research</i> , 1994, 59, 11-30.	1.2	32

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55	Cholera Toxin as a Probe for Membrane Biology. <i>Toxins</i> , 2021, 13, 543.	1.5	30
56	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> , 2020, 117, 14168-14177.	3.3	29
57	Overexpression of Caveolin-1 Is Sufficient to Phenocopy the Behavior of a Disease-Associated Mutant. <i>Traffic</i> , 2013, 14, 663-677.	1.3	28
58	Assembly and Turnover of Caveolae: What Do We Really Know?. <i>Frontiers in Cell and Developmental Biology</i> , 2016, 4, 68.	1.8	28
59	Ceramide structure dictates glycosphingolipid nanodomain assembly and function. <i>Nature Communications</i> , 2021, 12, 3675.	5.8	27
60	Antibody-specific detection of caveolin-1 in subapical compartments of MDCK cells. <i>Histochemistry and Cell Biology</i> , 2006, 126, 27-34.	0.8	26
61	Distinct insulin granule subpopulations implicated in the secretory pathology of diabetes types 1 and 2. <i>ELife</i> , 2020, 9, .	2.8	26
62	In Silico Characterization of Resonance Energy Transfer for Disk-Shaped Membrane Domains. <i>Biophysical Journal</i> , 2007, 92, 3040-3051.	0.2	25
63	Validation of Normalizations, Scaling, and Photofading Corrections for FRAP Data Analysis. <i>PLoS ONE</i> , 2015, 10, e0127966.	1.1	25
64	Analysis of diffusion in curved surfaces and its application to tubular membranes. <i>Molecular Biology of the Cell</i> , 2016, 27, 3937-3946.	0.9	25
65	Coordinated regulation of caveolin-1 and Rab11a in apical recycling compartments of polarized epithelial cells. <i>Experimental Cell Research</i> , 2012, 318, 103-113.	1.2	24
66	Tagging Strategies Strongly Affect the Fate of Overexpressed Caveolin-1. <i>Traffic</i> , 2015, 16, 417-438.	1.3	24
67	Structure and assembly of CAV1 8S complexes revealed by single particle electron microscopy. <i>Science Advances</i> , 2020, 6, .	4.7	23
68	Fluorescence-based methods to image palmitoylated proteins. <i>Methods</i> , 2006, 40, 198-205.	1.9	22
69	Intracellular Degradation of Helicobacter pylori VacA Toxin as a Determinant of Gastric Epithelial Cell Viability. <i>Infection and Immunity</i> , 2019, 87, .	1.0	21
70	NHE3 mobility in brush borders increases upon NHERF2-dependent stimulation by lyophosphatidic acid. <i>Journal of Cell Science</i> , 2010, 123, 2434-2443.	1.2	20
71	Size, stoichiometry, and organization of soluble LC3-associated complexes. <i>Autophagy</i> , 2014, 10, 861-877.	4.3	19
72	Topologically Diverse Human Membrane Proteins Partition to Liquid-Disordered Domains in Phase-Separated Lipid Vesicles. <i>Biochemistry</i> , 2016, 55, 985-988.	1.2	19

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73	Size, organization, and dynamics of soluble SQSTM1 and LC3-SQSTM1 complexes in living cells. <i>Autophagy</i> , 2016, 12, 1660-1674.	4.3	18
74	Imaging protein complex formation in the autophagy pathway: analysis of the interaction of LC3 and Atg4B <sup>[sup C74A]</sup> in live cells using Förster resonance energy transfer and fluorescence recovery after photobleaching. <i>Journal of Biomedical Optics</i> , 2012, 17, 011008.	1.4	17
75	Nanoclusters digitize Ras signalling. <i>Nature Cell Biology</i> , 2007, 9, 875-877.	4.6	16
76	Determinants of Raft Partitioning of the Helicobacter pylori Pore-Forming Toxin VacA. <i>Infection and Immunity</i> , 2018, 86, .	1.0	15
77	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> , 1992, 55, 615-627.	1.2	14
78	Fleeting Glimpses of Lipid Rafts: How Biophysics is Being used to Track Them. <i>Journal of Investigative Medicine</i> , 2005, 53, 312-317.	0.7	14
79	A novel computational framework for $\langle i \rangle D \langle /i \rangle$ ( $\langle i \rangle t \langle /i \rangle$ ) from Fluorescence Recovery after Photobleaching data reveals various anomalous diffusion types in live cell membranes. <i>Traffic</i> , 2019, 20, 867-880.	1.3	13
80	Intermolecular protein interactions in solutions of bovine lens beta L-crystallin. Results from 1/T1 nuclear magnetic relaxation dispersion profiles. <i>Biophysical Journal</i> , 1993, 64, 1178-1186.	0.2	12
81	Proposed Correction to Feder's Anomalous Diffusion FRAP Equations. <i>Biophysical Journal</i> , 2011, 100, 791-792.	0.2	11
82	Motor and Tail Homology 1 (TH1) Domains Antagonistically Control Myosin-1 Dynamics. <i>Biophysical Journal</i> , 2014, 106, 649-658.	0.2	11
83	Caveolin-1 is an aggresome-inducing protein. <i>Scientific Reports</i> , 2016, 6, 38681.	1.6	11
84	High-Content Imaging Platform to Discover Chemical Modulators of Plasma Membrane Rafts. <i>ACS Central Science</i> , 2022, 8, 370-378.	5.3	10
85	Analyzing Single Giant Unilamellar Vesicles With a Slotline-Based RF Nanometer Sensor. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016, 64, 1339-1347.	2.9	9
86	The C99 domain of the amyloid precursor protein resides in the disordered membrane phase. <i>Journal of Biological Chemistry</i> , 2021, 296, 100652.	1.6	9
87	Photobleaching FRET Microscopy. , 2005, , 146-164.		8
88	Complex Applications of Simple FRAP on Membranes. , 2009, , 187-221.		6
89	Expression of a Human Caveolin-1 Mutation in Mice Drives Inflammatory and Metabolic Defect-Associated Pulmonary Arterial Hypertension. <i>Frontiers in Medicine</i> , 2020, 7, 540.	1.2	5
90	Bigger Isn't Always Better: Bulking Up Impedes Receptor Internalization. <i>Biophysical Journal</i> , 2018, 114, 1255-1256.	0.2	2

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91	Choosing who can ride the raft. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 566-567.	16.1	2
92	Lipid Peroxidation Enhances LO/LD Domain Phase Separation in Giant Plasma Membrane Vesicles. <i>Biophysical Journal</i> , 2021, 120, 324a.	0.2	2
93	Studying Spatial Distributions of Influenza Hemagglutinin on the Plasma Membrane of Fibroblasts: A Work in Progress. <i>Macromolecular Symposia</i> , 2005, 219, 17-24.	0.4	1
94	Preface. <i>Current Topics in Membranes</i> , 2015, 75, xiii-xvii.	0.5	1
95	Light Microscopy Beyond the Wavelength Limit: Methods for Characterizing Cell Surface Membranes. <i>Microscopy and Microanalysis</i> , 1998, 4, 1018-1019.	0.2	0
96	Breaking Up Isn't So Hard to Do. <i>Biophysical Journal</i> , 2007, 93, 2984-2985.	0.2	0
97	Microtubule Motors Drive Plasma Membrane Tubulation in Clathrin-Independent Endocytosis. <i>Biophysical Journal</i> , 2015, 108, 353a.	0.2	0