

Anne K Kenworthy

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

13,469
citations

71102

41
h-index

40979

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. | 9.1 | 4,701 |
| 2 | Studying protein dynamics in living cells. <i>Nature Reviews Molecular Cell Biology</i> , 2001, 2, 444-456. | 37.0 | 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. | 5.2 | 496 |
| 4 | Imaging Protein-Protein Interactions Using Fluorescence Resonance Energy Transfer Microscopy. <i>Methods</i> , 2001, 24, 289-296. | 3.8 | 460 |
| 5 | Distribution of a Glycosylphosphatidylinositol-anchored Protein at the Apical Surface of MDCK Cells Examined at a Resolution of $<lt;100 \text{ \AA}>$... Using Imaging Fluorescence Resonance Energy Transfer. <i>Journal of Cell Biology</i> , 1998, 142, 69-84. | 5.2 | 450 |
| 6 | Dynamics of putative raft-associated proteins at the cell surface. <i>Journal of Cell Biology</i> , 2004, 165, 735-746. | 5.2 | 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. | 2.1 | 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. | 0.5 | 360 |
| 9 | Endophilin-A2 functions in membrane scission in clathrin-independent endocytosis. <i>Nature</i> , 2015, 517, 493-496. | 27.8 | 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. | 5.2 | 263 |
| 11 | Lipid rafts, cholesterol, and the brain. <i>Neuropharmacology</i> , 2008, 55, 1265-1273. | 4.1 | 263 |
| 12 | Dynamics and retention of misfolded proteins in native ER membranes. <i>Nature Cell Biology</i> , 2000, 2, 288-295. | 10.3 | 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. | 0.5 | 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. | 0.5 | 217 |
| 15 | Simplified Equation to Extract Diffusion Coefficients from Confocal $<sc>FRAP</sc>$ Data. <i>Traffic</i> , 2012, 13, 1589-1600. | 2.7 | 196 |
| 16 | Friction Mediates Scission of Tubular Membranes Scaffolded by BAR Proteins. <i>Cell</i> , 2017, 170, 172-184.e11. | 28.9 | 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. | 2.1 | 145 |
| 18 | Ras Diffusion Is Sensitive to Plasma Membrane Viscosity. <i>Biophysical Journal</i> , 2005, 89, 1398-1410. | 0.5 | 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. | 7.0 | 119 |
| 20 | Cholesterol as a solvent and a ligand for membrane proteins. <i>Protein Science</i> , 2014, 23, 1-22. | 7.6 | 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. | 5.2 | 104 |
| 22 | Tracking microdomain dynamics in cell membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 245-253. | 2.6 | 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. | 4.8 | 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. | 0.5 | 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. | 4.5 | 82 |
| 26 | Nucleocytoplasmic Distribution and Dynamics of the Autophagosome Marker EGFP-LC3. <i>PLoS ONE</i> , 2010, 5, e9806. | 2.5 | 81 |
| 27 | Photobleaching approaches to investigate diffusional mobility and trafficking of Ras in living cells. <i>Methods</i> , 2005, 37, 154-164. | 3.8 | 80 |
| 28 | Functions of cholera toxin B-subunit as a raft cross-linker. <i>Essays in Biochemistry</i> , 2015, 57, 135-145. | 4.7 | 75 |
| 29 | APC Inhibits Ligand-Independent Wnt Signaling by the Clathrin Endocytic Pathway. <i>Developmental Cell</i> , 2018, 44, 566-581.e8. | 7.0 | 73 |
| 30 | Peering inside lipid rafts and caveolae. <i>Trends in Biochemical Sciences</i> , 2002, 27, 435-438. | 7.5 | 70 |
| 31 | The DNA Binding Activity of p53 Displays Reaction-Diffusion Kinetics. <i>Biophysical Journal</i> , 2006, 91, 330-342. | 0.5 | 70 |
| 32 | Caveolae: The FAQs. <i>Traffic</i> , 2020, 21, 181-185. | 2.7 | 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. | 2.0 | 61 |
| 35 | A Quantitative Approach to Analyze Binding Diffusion Kinetics by Confocal FRAP. <i>Biophysical Journal</i> , 2010, 99, 2737-2747. | 0.5 | 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. | 7.1 | 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. | 2.2 | 53 |
| 38 | Mechanisms Underlying the Confined Diffusion of Cholera Toxin B-Subunit in Intact Cell Membranes. <i>PLoS ONE</i> , 2012, 7, e34923. | 2.5 | 53 |
| 39 | Microtubule Motors Power Plasma Membrane Tubulation in Clathrin-Independent Endocytosis. <i>Traffic</i> , 2015, 16, 572-590. | 2.7 | 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. | 0.5 | 49 |
| 41 | Molecular architecture of the human caveolin-1 complex. <i>Science Advances</i> , 2022, 8, eabn7232. | 10.3 | 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. | 2.7 | 48 |
| 43 | Fluorescence Recovery After Photobleaching Studies of Lipid Rafts. <i>Methods in Molecular Biology</i> , 2007, 398, 179-192. | 0.9 | 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. | 12.8 | 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. | 3.4 | 40 |
| 46 | <i>Clostridium difficile</i> Toxin A Undergoes Clathrin-Independent, PACSIN2-Dependent Endocytosis. <i>PLoS Pathogens</i> , 2016, 12, e1006070. | 4.7 | 39 |
| 47 | Nuclear LC3 Associates with Slowly Diffusing Complexes that Survey the Nucleolus. <i>Traffic</i> , 2016, 17, 369-399. | 2.7 | 39 |
| 48 | Dynamic pattern generation in cell membranes: Current insights into membrane organization. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 2018-2031. | 2.6 | 39 |
| 49 | Molecular consequences of altered neuronal cholesterol biosynthesis. <i>Journal of Neuroscience Research</i> , 2009, 87, 866-875. | 2.9 | 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. | 2.1 | 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. | 0.5 | 36 |
| 53 | Glycolipid Crosslinking Is Required for Cholera Toxin to Partition Into and Stabilize Ordered Domains. <i>Biophysical Journal</i> , 2016, 111, 2547-2550. | 0.5 | 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. | 2.6 | 32 |

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|----|--|------|-----------|
| 55 | Cholera Toxin as a Probe for Membrane Biology. <i>Toxins</i> , 2021, 13, 543. | 3.4 | 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. | 7.1 | 29 |
| 57 | Overexpression of Caveolin-1 Is Sufficient to Phenocopy the Behavior of a Disease-Associated Mutant. <i>Traffic</i> , 2013, 14, 663-677. | 2.7 | 28 |
| 58 | Assembly and Turnover of Caveolae: What Do We Really Know?. <i>Frontiers in Cell and Developmental Biology</i> , 2016, 4, 68. | 3.7 | 28 |
| 59 | Ceramide structure dictates glycosphingolipid nanodomain assembly and function. <i>Nature Communications</i> , 2021, 12, 3675. | 12.8 | 27 |
| 60 | Antibody-specific detection of caveolin-1 in subapical compartments of MDCK cells. <i>Histochemistry and Cell Biology</i> , 2006, 126, 27-34. | 1.7 | 26 |
| 61 | Distinct insulin granule subpopulations implicated in the secretory pathology of diabetes types 1 and 2. <i>ELife</i> , 2020, 9, . | 6.0 | 26 |
| 62 | In Silico Characterization of Resonance Energy Transfer for Disk-Shaped Membrane Domains. <i>Biophysical Journal</i> , 2007, 92, 3040-3051. | 0.5 | 25 |
| 63 | Validation of Normalizations, Scaling, and Photofading Corrections for FRAP Data Analysis. <i>PLoS ONE</i> , 2015, 10, e0127966. | 2.5 | 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. | 2.1 | 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. | 2.6 | 24 |
| 66 | Tagging Strategies Strongly Affect the Fate of Overexpressed Caveolin-1. <i>Traffic</i> , 2015, 16, 417-438. | 2.7 | 24 |
| 67 | Structure and assembly of CAV1 8S complexes revealed by single particle electron microscopy. <i>Science Advances</i> , 2020, 6, . | 10.3 | 23 |
| 68 | Fluorescence-based methods to image palmitoylated proteins. <i>Methods</i> , 2006, 40, 198-205. | 3.8 | 22 |
| 69 | Intracellular Degradation of <i>Helicobacter pylori</i> VacA Toxin as a Determinant of Gastric Epithelial Cell Viability. <i>Infection and Immunity</i> , 2019, 87, . | 2.2 | 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. | 2.0 | 20 |
| 71 | Size, stoichiometry, and organization of soluble LC3-associated complexes. <i>Autophagy</i> , 2014, 10, 861-877. | 9.1 | 19 |
| 72 | Topologically Diverse Human Membrane Proteins Partition to Liquid-Disordered Domains in Phase-Separated Lipid Vesicles. <i>Biochemistry</i> , 2016, 55, 985-988. | 2.5 | 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. | 9.1 | 18 |
| 74 | Imaging protein complex formation in the autophagy pathway: analysis of the interaction of LC3 and Atg4B ^[sup C74A] in live cells using Förster resonance energy transfer and fluorescence recovery after photobleaching. <i>Journal of Biomedical Optics</i> , 2012, 17, 011008. | 2.6 | 17 |
| 75 | Nanoclusters digitize Ras signalling. <i>Nature Cell Biology</i> , 2007, 9, 875-877. | 10.3 | 16 |
| 76 | Determinants of Raft Partitioning of the Helicobacter pylori Pore-Forming Toxin VacA. <i>Infection and Immunity</i> , 2018, 86, . | 2.2 | 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. | 2.6 | 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. | 1.6 | 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. | 2.7 | 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. | 0.5 | 12 |
| 81 | Proposed Correction to Feder's Anomalous Diffusion FRAP Equations. <i>Biophysical Journal</i> , 2011, 100, 791-792. | 0.5 | 11 |
| 82 | Motor and Tail Homology 1 (TH1) Domains Antagonistically Control Myosin-1 Dynamics. <i>Biophysical Journal</i> , 2014, 106, 649-658. | 0.5 | 11 |
| 83 | Caveolin-1 is an aggresome-inducing protein. <i>Scientific Reports</i> , 2016, 6, 38681. | 3.3 | 11 |
| 84 | High-Content Imaging Platform to Discover Chemical Modulators of Plasma Membrane Rafts. <i>ACS Central Science</i> , 2022, 8, 370-378. | 11.3 | 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. | 4.6 | 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. | 3.4 | 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. | 2.6 | 5 |
| 90 | Bigger Isn't Always Better: Bulking Up Impedes Receptor Internalization. <i>Biophysical Journal</i> , 2018, 114, 1255-1256. | 0.5 | 2 |

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|----|---|------|-----------|
| 91 | Choosing who can ride the raft. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 566-567. | 37.0 | 2 |
| 92 | Lipid Peroxidation Enhances LO/LD Domain Phase Separation in Giant Plasma Membrane Vesicles. <i>Biophysical Journal</i> , 2021, 120, 324a. | 0.5 | 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. | 0.7 | 1 |
| 94 | Preface. <i>Current Topics in Membranes</i> , 2015, 75, xiii-xvii. | 0.9 | 1 |
| 95 | Light Microscopy Beyond the Wavelength Limit: Methods for Characterizing Cell Surface Membranes. <i>Microscopy and Microanalysis</i> , 1998, 4, 1018-1019. | 0.4 | 0 |
| 96 | Breaking Up Isn't So Hard to Do. <i>Biophysical Journal</i> , 2007, 93, 2984-2985. | 0.5 | 0 |
| 97 | Microtubule Motors Drive Plasma Membrane Tubulation in Clathrin-Independent Endocytosis. <i>Biophysical Journal</i> , 2015, 108, 353a. | 0.5 | 0 |