# Joshua Zimmerberg

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 176 papers | 12,404 citations | 25034<br>57 h-index | 27406<br>106 g-index |
| 184 all docs | 184 docs citations | 184 times ranked | 11879 citing authors |

| # | Article | IF | Citations |
| --- | --- | --- | --- |
| 1 | How proteins produce cellular membrane curvature. Nature Reviews Molecular Cell Biology, 2006, 7, 9-19. | 37.0 | 1,130 |
| 2 | Antimycin A mimics a cell-death-inducing Bcl-2 homology domain 3. Nature Cell Biology, 2001, 3, 183-191. | 10.3 | 436 |
| 3 | Dynamics of putative raft-associated proteins at the cell surface. Journal of Cell Biology, 2004, 165, 735-746. | 5.2 | 432 |
| 4 | The Pathway of Membrane Fusion Catalyzed by Influenza Hemagglutinin: Restriction of Lipids, Hemifusion, and Lipidic Fusion Pore Formation. Journal of Cell Biology, 1998, 140, 1369-1382. | 5.2 | 358 |
| 5 | Dynamic clustered distribution of hemagglutinin resolved at 40 nm in living cell membranes discriminates between raft theories. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17370-17375. | 7.1 | 353 |
| 6 | Line Tension and Interaction Energies of Membrane Rafts Calculated from Lipid Splay and Tilt. Biophysical Journal, 2005, 88, 1120-1133. | 0.5 | 295 |
| 7 | Polymer inaccessible volume changes during opening and closing of a voltage-dependent ionic channel. Nature, 1986, 323, 36-39. | 27.8 | 292 |
| 8 | GTPase Cycle of Dynamin Is Coupled to Membrane Squeeze and Release, Leading to Spontaneous Fission. Cell, 2008, 135, 1276-1286. | 28.9 | 269 |
| 9 | A voltage-dependent channel involved in nutrient uptake by red blood cells infected with the malaria parasite. Nature, 2000, 406, 1001-1005. | 27.8 | 240 |
| 10 | Implications of lipid microdomains for membrane curvature, budding and fission. Current Opinion in Cell Biology, 2001, 13, 478-484. | 5.4 | 221 |
| 11 | Bax-type Apoptotic Proteins Porate Pure Lipid Bilayers through a Mechanism Sensitive to Intrinsic Monolayer Curvature. Journal of Biological Chemistry, 2002, 277, 49360-49365. | 3.4 | 210 |
| 12 | An Early Stage of Membrane Fusion Mediated by the Low pH Conformation of Influenza Hemagglutinin Depends upon Membrane Lipids. Journal of Cell Biology, 1997, 136, 81-93. | 5.2 | 206 |
| 13 | Membranes of the world unite!. Journal of Cell Biology, 2006, 175, 201-207. | 5.2 | 198 |
| 14 | Progressive ordering with decreasing temperature of the phospholipids of influenza virus. Nature Chemical Biology, 2008, 4, 248-255. | 8.0 | 197 |
| 15 | De novo sequencing of peptides using MALDI/TOF-TOF. Journal of the American Society for Mass Spectrometry, 2002, 13, 784-791. | 2.8 | 189 |
| 16 | Direct chemical evidence for sphingolipid domains in the plasma membranes of fibroblasts. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E613-22. | 7.1 | 184 |
| 17 | Lysolipids reversibly inhibit Ca2+-, GTP- and pH-dependent fusion of biological membranes. FEBS Letters, 1993, 318, 71-76. | 2.8 | 181 |
| 18 | Infection of human tonsil histocultures: A model for HIV pathogenesis. Nature Medicine, 1995, 1, 1320-1322. | 30.7 | 176 |

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| 19 | Membrane Curvature: How BAR Domains Bend Bilayers. Current Biology, 2004, 14, R250-R252. | 3.9 | 167 |
| 20 | Cell-Cell and Cell-Extracellular Matrix Interactions Regulate Embryonic Stem Cell Differentiation. Stem Cells, 2007, 25, 553-561. | 3.2 | 161 |
| 21 | Nanoscale 3D cellular imaging by axial scanning transmission electron tomography. Nature Methods, 2009, 6, 729-731. | 19.0 | 160 |
| 22 | Insulin stimulates the halting, tethering, and fusion of mobile GLUT4 vesicles in rat adipose cells. Journal of Cell Biology, 2005, 169, 481-489. | 5.2 | 158 |
| 23 | Lipid Polymorphisms and Membrane Shape. Cold Spring Harbor Perspectives in Biology, 2011, 3, a004747-a004747. | 5.5 | 152 |
| 24 | Plasmepsins IX and X are essential and druggable mediators of malaria parasite egress and invasion. Science, 2017, 358, 518-522. | 12.6 | 152 |
| 25 | Biochemical and Functional Studies of Cortical Vesicle Fusion: The SNARE Complex and Ca2+ Sensitivity. Journal of Cell Biology, 1998, 143, 1845-1857. | 5.2 | 146 |
| 26 | Bending membranes to the task: structural intermediates in bilayer fusion. Current Opinion in Structural Biology, 1995, 5, 541-547. | 5.7 | 138 |
| 27 | Membrane Transformation during Malaria Parasite Release from Human Red Blood Cells. Current Biology, 2005, 15, 1645-1650. | 3.9 | 137 |
| 28 | Pro-apoptotic Cleavage Products of Bcl-xL Form Cytochrome c-conducting Pores in Pure Lipid Membranes. Journal of Biological Chemistry, 2001, 276, 31083-31091. | 3.4 | 134 |
| 29 | SNARE-Mediated Lipid Mixing Depends on the Physical State of the Vesicles. Biophysical Journal, 2006, 90, 2062-2074. | 0.5 | 133 |
| 30 | Evidence for the HIV-1 phenotype switch as a causal factor in acquired immunodeficiency. Nature Medicine, 1998, 4, 346-349. | 30.7 | 131 |
| 31 | Sphingolipid Domains in the Plasma Membranes of Fibroblasts Are Not Enriched with Cholesterol. Journal of Biological Chemistry, 2013, 288, 16855-16861. | 3.4 | 129 |
| 32 | The hemifusion structure induced by influenza virus haemagglutinin is determined by physical properties of the target membranes. Nature Microbiology, 2016, 1, 16050. | 13.3 | 124 |
| 33 | Geometric Catalysis of Membrane Fission Driven by Flexible Dynamin Rings. Science, 2013, 339, 1433-1436. | 12.6 | 123 |
| 34 | Membrane fusion. Advanced Drug Delivery Reviews, 1999, 38, 197-205. | 13.7 | 121 |
| 35 | Shape control through molecular segregation in giant surfactant aggregates. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15082-15087. | 7.1 | 121 |
| 36 | A Flexible Reporter System for Direct Observation and Isolation of Cancer Stem Cells. Stem Cell Reports, 2015, 4, 155-169. | 4.8 | 110 |

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| 37 | Perforinâ€like protein <scp>PPLP</scp> 2 permeabilizes the red blood cell membrane during egress of <scp> <i>P</i> </scp> <i>lasmodium falciparum</i> gametocytes. Cellular Microbiology, 2014, 16, 709-733. | 2.1 | 106 |
| 38 | EXP2 is a nutrient-permeable channel in the vacuolar membrane of Plasmodium and is essential for protein export via PTEX. Nature Microbiology, 2018, 3, 1090-1098. | 13.3 | 106 |
| 39 | Quantitative electron microscopy and fluorescence spectroscopy of the membrane distribution of influenza hemagglutinin. Journal of Cell Biology, 2005, 169, 965-976. | 5.2 | 104 |
| 40 | Actin Mediates the Nanoscale Membrane Organization of the Clustered Membrane Protein Influenza Hemagglutinin. Biophysical Journal, 2013, 104, 2182-2192. | 0.5 | 100 |
| 41 | Irreversible swelling of secretory granules during exocytosis caused by calcium. Nature, 1985, 315, 581-584. | 27.8 | 98 |
| 42 | Adaptive optics improves multiphoton super-resolution imaging. Nature Methods, 2017, 14, 869-872. | 19.0 | 97 |
| 43 | Experimental HIV Infection of Human Lymphoid Tissue: Correlation of CD4<sup>+</sup>T Cell Depletion and Virus Syncytium-Inducing/Non-Syncytium-Inducing Phenotype in Histocultures Inoculated with Laboratory Strains and Patient Isolates of HIV Type 1. AIDS Research and Human Retroviruses, 1997, 13, 461-471. | 1.1 | 96 |
| 44 | Proapoptotic N-truncated BCL-xL protein activates endogenous mitochondrial channels in living synaptic terminals. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13590-13595. | 7.1 | 95 |
| 45 | Identifying SARS-CoV-2 Entry Inhibitors through Drug Repurposing Screens of SARS-S and MERS-S Pseudotyped Particles. ACS Pharmacology and Translational Science, 2020, 3, 1165-1175. | 4.9 | 94 |
| 46 | Calcium Can Disrupt the SNARE Protein Complex on Sea Urchin Egg Secretory Vesicles without Irreversibly Blocking Fusion. Journal of Biological Chemistry, 1998, 273, 33667-33673. | 3.4 | 85 |
| 47 | The physical chemistry of biological membranes. , 2006, 2, 564-567. | | 85 |
| 48 | Synchronized activation and refolding of influenza hemagglutinin in multimeric fusion machines. Journal of Cell Biology, 2001, 155, 833-844. | 5.2 | 83 |
| 49 | Multilineage Differentiation of Rhesus Monkey Embryonic Stem Cells in Three-Dimensional Culture Systems. Stem Cells, 2003, 21, 281-295. | 3.2 | 81 |
| 50 | Insulin Controls the Spatial Distribution of GLUT4 on the Cell Surface through Regulation of Its Postfusion Dispersal. Cell Metabolism, 2010, 12, 250-259. | 16.2 | 78 |
| 51 | Dynamics of Fusion Pores Connecting Membranes of Different Tensions. Biophysical Journal, 2000, 78, 2241-2256. | 0.5 | 76 |
| 52 | The Anti-Influenza Virus Agent 4-GU-DANA (Zanamivir) Inhibits Cell Fusion Mediated by Human Parainfluenza Virus and Influenza Virus HA. Journal of Virology, 2000, 74, 11108-11114. | 3.4 | 74 |
| 53 | Cholesterol Promotes Hemifusion and Pore Widening in Membrane Fusion Induced by Influenza Hemagglutinin. Journal of General Physiology, 2008, 131, 503-513. | 1.9 | 73 |
| 54 | Large-Scale Production of Pseudotyped Lentiviral Vectors Using Baculovirus GP64. Human Gene Therapy, 2003, 14, 67-77. | 2.7 | 71 |

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| 55 | New Stages in the Program of Malaria Parasite Egress Imaged in Normal and Sickle Erythrocytes. Current Biology, 2010, 20, 1117-1121. | 3.9 | 66 |
| 56 | Exocytotic fusion pores exhibit semi-stable states. Journal of Membrane Biology, 1993, 133, 61-75. | 2.1 | 65 |
| 57 | Irreversible effect of cysteine protease inhibitors on the release of malaria parasites from infected erythrocytes. Cellular Microbiology, 2009, 11, 95-105. | 2.1 | 61 |
| 58 | EXP1 is critical for nutrient uptake across the parasitophorous vacuole membrane of malaria parasites. PLoS Biology, 2019, 17, e3000473. | 5.6 | 60 |
| 59 | Reversible stages of the low-pH-triggered conformational change in influenza virus hemagglutinin. EMBO Journal, 2002, 21, 5701-5710. | 7.8 | 59 |
| 60 | Multiple Local Contact Sites are Induced by GPI-Linked Influenza Hemagglutinin During Hemifusion and Flickering Pore Formation. Traffic, 2000, 1, 622-630. | 2.7 | 58 |
| 61 | A Lipid/Protein Complex Hypothesis for Exocytotic Fusion Pore Formation. Annals of the New York Academy of Sciences, 1991, 635, 307-317. | 3.8 | 57 |
| 62 | Quantitative femto- to attomole immunodetection of regulated secretory vesicle proteins critical to exocytosis. Analytical Biochemistry, 2002, 307, 54-62. | 2.4 | 57 |
| 63 | Regulated secretion: SNARE density, vesicle fusion and calcium dependence. Journal of Cell Science, 2003, 116, 2087-2097. | 2.0 | 55 |
| 64 | Palmitoylation Contributes to Membrane Curvature in Influenza A Virus Assembly and Hemagglutinin-Mediated Membrane Fusion. Journal of Virology, 2017, 91, . | 3.4 | 55 |
| 65 | Submaximal Responses in Calcium-triggered Exocytosis Are Explained by Differences in the Calcium Sensitivity of Individual Secretory Vesicles. Journal of General Physiology, 1998, 112, 559-567. | 1.9 | 53 |
| 66 | Shape bistability of a membrane neck: A toggle switch to control vesicle content release. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8698-8703. | 7.1 | 53 |
| 67 | Vesicle formation by self-assembly of membrane-bound matrix proteins into a fluidlike budding domain. Journal of Cell Biology, 2007, 179, 627-633. | 5.2 | 53 |
| 68 | An Analysis of the Role of the Target Membrane on the Gp64-induced Fusion Pore. Virology, 1999, 253, 65-76. | 2.4 | 51 |
| 69 | Lipid Flow through Fusion Pores Connecting Membranes of Different Tensions. Biophysical Journal, 1999, 76, 2951-2965. | 0.5 | 50 |
| 70 | A Discrete Stage of Baculovirus GP64-mediated Membrane Fusion. Molecular Biology of the Cell, 1999, 10, 4191-4200. | 2.1 | 49 |
| 71 | Absence of the ER Cation Channel TMEM38B/TRIC-B Disrupts Intracellular Calcium Homeostasis and Dysregulates Collagen Synthesis in Recessive Osteogenesis Imperfecta. PLoS Genetics, 2016, 12, e1006156. | 3.5 | 49 |
| 72 | Hemagglutinin Clusters in the Plasma Membrane Are Not Enriched with Cholesterol and Sphingolipids. Biophysical Journal, 2015, 108, 1652-1659. | 0.5 | 48 |

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|---|---|---|---|
| 73 | Structural basis for placental malaria mediated by Plasmodium falciparum VAR2CSA. Nature Microbiology, 2021, 6, 380-391. | 13.3 | 47 |
| 74 | Acidic pH induces fusion of cells infected with baculovirus to form syncytia. FEBS Letters, 1992, 304, 221-224. | 2.8 | 46 |
| 75 | Cytoplasmic free Ca2+ is essential for multiple steps in malaria parasite egress from infected erythrocytes. Malaria Journal, 2013, 12, 41. | 2.3 | 46 |
| 76 | Interaction of hagfish cathelicidin antimicrobial peptides with model lipid membranes. FEBS Letters, 2002, 532, 115-120. | 2.8 | 45 |
| 77 | Shear Forces during Blast, Not Abrupt Changes in Pressure Alone, Generate Calcium Activity in Human Brain Cells. PLoS ONE, 2012, 7, e39421. | 2.5 | 44 |
| 78 | Molecular mechanisms of membrane fusion: Steps during phospholipid and exocytotic membrane fusion. Bioscience Reports, 1987, 7, 251-268. | 2.4 | 42 |
| 79 | Short-Chain Alcohols Promote an Early Stage of Membrane Hemifusion. Biophysical Journal, 1999, 77, 2035-2045. | 0.5 | 41 |
| 80 | Insulin Regulates Glut4 Confinement in Plasma Membrane Clusters in Adipose Cells. PLoS ONE, 2013, 8, e57559. | 2.5 | 39 |
| 81 | Rounding precedes rupture and breakdown of vacuolar membranes minutes before malaria parasite egress from erythrocytes. Cellular Microbiology, 2018, 20, e12868. | 2.1 | 39 |
| 82 | How can proteolipids be central players in membrane fusion?. Trends in Cell Biology, 2001, 11, 233-235. | 7.9 | 37 |
| 83 | Cytotoxicity Mediated by the Fas Ligand (FasL)-activated Apoptotic Pathway in Stem Cells. Journal of Biological Chemistry, 2009, 284, 22022-22028. | 3.4 | 37 |
| 84 | Lymphocyte Trafficking and HIV Infection of Human Lymphoid Tissue in a Rotating Wall Vessel Bioreactor. AIDS Research and Human Retroviruses, 1997, 13, 1411-1420. | 1.1 | 36 |
| 85 | Proteinâ€"lipid interactions critical to replication of the influenza A virus. FEBS Letters, 2016, 590, 1940-1954. | 2.8 | 36 |
| 86 | Influenza Hemagglutinin Modulates Phosphatidylinositol 4,5-Bisphosphate Membrane Clustering. Biophysical Journal, 2019, 116, 893-909. | 0.5 | 36 |
| 87 | Paradoxical Lipid Dependence of Pores Formed by the Escherichia coli Î±-Hemolysin in Planar Phospholipid Bilayer Membranes. Biophysical Journal, 2006, 91, 3748-3755. | 0.5 | 35 |
| 88 | Single cell fusion events induced by influenza hemagglutinin: Studies with rapid-flow, quantitative fluorescence microscopy. Experimental Cell Research, 1991, 195, 137-144. | 2.6 | 34 |
| 89 | Invasion of Human Tissue Ex Vivo byBorrelia burgdorferi. Journal of Infectious Diseases, 2005, 191, 1747-1754. | 4.0 | 34 |
| 90 | Domain-Driven Morphogenesis of Cellular Membranes. Current Biology, 2009, 19, R772-R780. | 3.9 | 33 |

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| 91 | Synaptotagmin: fusogenic role for calcium sensor?. Nature Structural and Molecular Biology, 2006, 13, 301-303. | 8.2 | 32 |
| 92 | Impaired Tethering and Fusion of GLUT4 Vesicles in Insulin-Resistant Human Adipose Cells. Diabetes, 2013, 62, 3114-3119. | 0.6 | 32 |
| 93 | Lipid-dependence of target membrane stability during influenza viral fusion. Journal of Cell Science, 2018, 132, . | 2.0 | 32 |
| 94 | Hardly Vacuous: The Parasitophorous Vacuolar Membrane of Malaria Parasites. Trends in Parasitology, 2020, 36, 138-146. | 3.3 | 32 |
| 95 | Domain formation in membranes caused by lipid wetting of protein. Physical Review E, 2008, 77, 051901. | 2.1 | 31 |
| 96 | Insulin Regulates Fusion of GLUT4 Vesicles Independent of Exo70-mediated Tethering. Journal of Biological Chemistry, 2009, 284, 7914-7919. | 3.4 | 31 |
| 97 | Cooperative elastic stresses, the hydrophobic effect, and lipid tilt in membrane remodeling. FEBS Letters, 2010, 584, 1824-1829. | 2.8 | 31 |
| 98 | NEUROSCIENCE: Enhanced: Synaptic Membranes Bend to the Will of a Neurotoxin. Science, 2005, 310, 1626-1627. | 12.6 | 30 |
| 99 | Membrane biophysics. Current Biology, 2006, 16, R272-R276. | 3.9 | 30 |
| 100 | The Sea Urchin Cortical Reaction.. Annals of the New York Academy of Sciences, 1991, 635, 35-44. | 3.8 | 29 |
| 101 | A Kinetic Analysis of Calcium-Triggered Exocytosis. Journal of General Physiology, 2001, 118, 145-156. | 1.9 | 29 |
| 102 | An adhesion-based method for plasma membrane isolation: Evaluating cholesterol extraction from cells and their membranes. Analytical Biochemistry, 2009, 394, 171-176. | 2.4 | 29 |
| 103 | Endocytosis: Curvature to the ENTH Degree. Current Biology, 2002, 12, R770-R772. | 3.9 | 28 |
| 104 | Orientation and Interaction of Oblique Cylindrical Inclusions Embedded in a Lipid Monolayer: A Theoretical Model for Viral Fusion Peptides. Biophysical Journal, 2004, 87, 999-1012. | 0.5 | 28 |
| 105 | Are The Curves in all the Right Places?. Traffic, 2000, 1, 366-369. | 2.7 | 27 |
| 106 | Sea urchin egg preparations as systems for the study of calcium-triggered exocytosis. Journal of Physiology, 1999, 520, 15-21. | 2.9 | 26 |
| 107 | Blast shockwaves propagate Ca2+ activity via purinergic astrocyte networks in human central nervous system cells. Scientific Reports, 2016, 6, 25713. | 3.3 | 26 |
| 108 | Fusion Pore Conductance: Experimental Approaches and Theoretical Algorithms. Biophysical Journal, 1998, 74, 2374-2387. | 0.5 | 23 |

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| 109 | Exploitation of a newly-identified entry pathway into the malaria parasite-infected erythrocyte to inhibit parasite egress. Scientific Reports, 2017, 7, 12250. | 3.3 | 23 |
| 110 | Hemoglobinopathic Erythrocytes Affect the Intraerythrocytic Multiplication of Plasmodium falciparum In Vitro. Journal of Infectious Diseases, 2014, 210, 1100-1109. | 4.0 | 22 |
| 111 | Water movement during channel opening and closing. Journal of Bioenergetics and Biomembranes, 1987, 19, 351-358. | 2.3 | 21 |
| 112 | Ionic and permeability requirements for exocytosis in vitro in sea urchin eggs. Journal of Membrane Biology, 1988, 101, 199-207. | 2.1 | 20 |
| 113 | Transport-Specific isolation of large channels reconstituted into lipid vesicles. Journal of Membrane Biology, 1989, 109, 243-250. | 2.1 | 20 |
| 114 | Contacting domains segregate a lipid transporter from a solute transporter in the malarial hostâ€“parasite interface. Nature Communications, 2020, 11, 3825. | 12.8 | 20 |
| 115 | Deletion of Plasmodium falciparum Protein RON3 Affects the Functional Translocation of Exported Proteins and Glucose Uptake. MBio, 2019, 10, . | 4.1 | 19 |
| 116 | Dye Transport through Bilayers Agrees with Lipid Electropore Molecular Dynamics. Biophysical Journal, 2020, 119, 1724-1734. | 0.5 | 19 |
| 117 | HIV and Apoptosis. Journal of Experimental Medicine, 2001, 193, F11-F14. | 8.5 | 18 |
| 118 | Quantification of malaria parasite release from infected erythrocytes: inhibition by protein-free media. Malaria Journal, 2007, 6, 61. | 2.3 | 18 |
| 119 | Membrane fusion of secretory vesicles of the sea urchin egg in the absence of NSF. Journal of Cell Science, 2004, 117, 2345-2356. | 2.0 | 17 |
| 120 | Dynamic Relationship of the SNARE Complex with a Membrane. Biophysical Journal, 2019, 117, 627-630. | 0.5 | 17 |
| 121 | A high throughput screening assay for inhibitors of SARS-CoV-2 pseudotyped particle entry. SLAS Discovery, 2022, 27, 86-94. | 2.7 | 16 |
| 122 | Insulin Stimulates Translocation of Human GLUT4 to the Membrane in Fat Bodies of Transgenic Drosophila melanogaster. PLoS ONE, 2013, 8, e77953. | 2.5 | 15 |
| 123 | The Calcium Sensitivity of Individual Secretory Vesicles Is Invariant with the Rate of Calcium Delivery. Journal of General Physiology, 1998, 112, 569-576. | 1.9 | 14 |
| 124 | Trapping by Clusters of Channels, Receptors, and Transporters: Quantitative Description. Biophysical Journal, 2014, 106, 500-509. | 0.5 | 14 |
| 125 | Monolayerwise application of linear elasticity theory well describes strongly deformed lipid membranes and the effect of solvent. Soft Matter, 2020, 16, 1179-1189. | 2.7 | 14 |
| 126 | Calcium-induced fusion of sea urchin egg secretory vesicles with planar phospholipid bilayer membranes. Molecular Membrane Biology, 1999, 16, 89-94. | 2.0 | 13 |

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| 127 | [4] Kinetics of cell fusion mediated by viral spike glycoproteins. Methods in Enzymology, 1993, 221, 42-58. | 1.0 | 12 |
| 128 | ER Biogenesis: Self-Assembly of Tubular Topology by Protein Hairpins. Current Biology, 2008, 18, R474-R476. | 3.9 | 12 |
| 129 | Initial size and dynamics of viral fusion pores are a function of the fusion protein mediating membrane fusion. Biology of the Cell, 2008, 100, 377-386. | 2.0 | 12 |
| 130 | Communication: Clusters of absorbing disks on a reflecting wall: Competition for diffusing particles. Journal of Chemical Physics, 2012, 136, 211102. | 3.0 | 12 |
| 131 | GREG cells, a dysferlin-deficient myogenic mouse cell line. Experimental Cell Research, 2012, 318, 127-135. | 2.6 | 11 |
| 132 | Syncytium Formation in Cultured Human Lymphoid Tissue: Fusion of Implanted HIV Glycoprotein 120/41-Expressing Cells with Native CD4<sup>+</sup>Cells. AIDS Research and Human Retroviruses, 1995, 11, 697-704. | 1.1 | 10 |
| 133 | A Negative Stain for Electron Microscopic Tomography. Microscopy and Microanalysis, 2012, 18, 331-335. | 0.4 | 10 |
| 134 | Human Adipose Cells In Vitro Are Either Refractory or Responsive to Insulin, Reflecting Host Metabolic State. PLoS ONE, 2015, 10, e0119291. | 2.5 | 10 |
| 135 | Observations of calcium dynamics in cortical secretory vesicles. Cell Calcium, 2012, 52, 217-225. | 2.4 | 9 |
| 136 | CD47 interactions with exportin-1 limit the targeting of m7G-modified RNAs to extracellular vesicles. Journal of Cell Communication and Signaling, 2022, 16, 397-419. | 3.4 | 9 |
| 137 | Cellular Biophysics: Bacterial Endospore, Membranes and Random Fluctuation. Current Biology, 2006, 16, R1025-R1028. | 3.9 | 8 |
| 138 | Response to Blast-like Shear Stresses Associated with Mild Blast-Induced Brain Injury. Biophysical Journal, 2019, 117, 1167-1178. | 0.5 | 8 |
| 139 | [8] Simultaneous electrical and optical measurements of individual membrane fusion events during exocytosis. Methods in Enzymology, 1993, 221, 99-112. | 1.0 | 6 |
| 140 | Flexible Scaffolding Made of Rigid BARs. Cell, 2008, 132, 727-729. | 28.9 | 6 |
| 141 | Isolation and Ultrastructural Characterization of Squid Synaptic Vesicles. Biological Bulletin, 2011, 220, 89-96. | 1.8 | 5 |
| 142 | Ectodomain Pulling Combines with Fusion Peptide Inserting to Provide Cooperative Fusion for Influenza Virus and HIV. International Journal of Molecular Sciences, 2020, 21, 5411. | 4.1 | 5 |
| 143 | Shaping biological matter. Nature Materials, 2009, 8, 173-174. | 27.5 | 4 |
| 144 | Functional Role for Transporter Isoforms in Optimizing Membrane Transport. Biophysical Journal, 2011, 101, L14-L16. | 0.5 | 4 |

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| 145 | Volumes apart. Nature, 1987, 325, 114-114. | 27.8 | 3 |
| 146 | A score for membrane fusion. Nature, 2009, 459, 1065-1066. | 27.8 | 3 |
| 147 | Reconstitution of Membrane Budding with Unilamellar Vesicles. Methods in Enzymology, 2009, 464, 55-75. | 1.0 | 3 |
| 148 | Elongated Membrane Zones Boost Interactions of Diffusing Proteins. Cell, 2011, 146, 501-503. | 28.9 | 3 |
| 149 | Long, Saturated Chains: Tasty Domains for Kinases of Insulin Resistance. Developmental Cell, 2011, 21, 604-606. | 7.0 | 2 |
| 150 | Thermodynamics of interleaflet cavitation in lipid bilayer membranes. Physical Review E, 2013, 87, 022715. | 2.1 | 2 |
| 151 | Itâ€™s Whatâ€™s Inside that Matters. Biophysical Journal, 2014, 107, 5-7. | 0.5 | 2 |
| 152 | CD63+ and MHC Class I+ Subsets of Extracellular Vesicles Produced by Wild-Type and CD47-Deficient Jurkat T Cells Have Divergent Functional Effects on Endothelial Cell Gene Expression. Biomedicines, 2021, 9, 1705. | 3.2 | 2 |
| 153 | Unique Aggregation of Retroviral Particles Pseudotyped with the Delta Variant SARS-CoV-2 Spike Protein. Viruses, 2022, 14, 1024. | 3.3 | 2 |
| 154 | Studying Spatial Distributions of Influenza Hemagglutinin on the Plasma Membrane of Fibroblasts: A Work in Progress. Macromolecular Symposia, 2005, 219, 17-24. | 0.7 | 1 |
| 155 | High-Resolution Imaging of the Distributions of Cholesterol, Sphingolipids, and Specific Proteins in the Plasma Membrane with Secondary Ion Mass Spectrometry. Microscopy and Microanalysis, 2015, 21, 2397-2398. | 0.4 | 1 |
| 156 | Subcutaneous adipose tissue imaging of human obesity reveals two types of adipocyte membranes: Insulin-responsive and -nonresponsive. Journal of Biological Chemistry, 2018, 293, 14249-14259. | 3.4 | 1 |
| 157 | Designing antimalarials that break into cells to lock down parasites. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2108103118. | 7.1 | 1 |
| 158 | Curvature Stimulates Assembly of Gag Shell through Distinct Fluid-Like Intermediate. Biophysical Journal, 2013, 104, 416a-417a. | 0.5 | 0 |
| 159 | Free Ca2+ Initiates and Regulates Malaria Parasite Egress Program in Infected Erythrocytes. Biophysical Journal, 2013, 104, 41a. | 0.5 | 0 |
| 160 | Phase Behavior of Synaptosomal Membranes: The Effect of Lipid Composition and Temperature. Biophysical Journal, 2015, 108, 342a. | 0.5 | 0 |
| 161 | Calcium-Activated Potassium Channels in the Malaria Parasite Erythrocyte Cycle. Biophysical Journal, 2016, 110, 448a. | 0.5 | 0 |
| 162 | Is the Site of Influenza Virus Assembly and Budding Enriched with Cholesterol and Sphingolipids?. Biophysical Journal, 2017, 112, 318a-319a. | 0.5 | 0 |

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| 163 | Malaria Parasites Break and Degrade Two Membranes to Egress from Human Erythrocyte. Biophysical Journal, 2019, 116, 218a. | 0.5 | 0 |
| 164 | Effect of Lipid Structure and Material Properties on the Membrane Stability to Pore Formation. Biophysical Journal, 2020, 118, 390a. | 0.5 | 0 |
| 165 | Atomic Force Microscopy in the Study of Protein Self-Assembly. Biophysical Journal, 2020, 118, 200a. | 0.5 | 0 |
| 166 | Nanosecond Life Cycle of Biomembrane Electroporation: Experimental Validation of Molecular Model. Biophysical Journal, 2020, 118, 81a. | 0.5 | 0 |
| 167 | A Bimodal Nanosensor for Probing Influenza Fusion Protein Activity Using Magnetic Relaxation. ACS Sensors, 2021, 6, 1899-1909. | 7.8 | 0 |
| 168 | Mechanisms of nonâ€random sphingolipid organization in the plasma membranes of fibroblast cells. FASEB Journal, 2013, 27, 1023.2. | 0.5 | 0 |
| 169 | Abstract 66: SR-BI Mediates Cholesteryl Ester (CE) Sorting in Tetraspanin Microdomains with CD81 Facilitating CE Nano-endocytosis and CE Transport to Lipid Droplets. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, . | 2.4 | 0 |
| 170 | Probing the lipid composition at the site of influenza virus assembly and budding with highâ€resolution SIMS. FASEB Journal, 2017, 31, 629.20. | 0.5 | 0 |
| 171 | Organelle arrangement in mature blood stage malaria parasites. Biophysical Journal, 2022, 121, 81a. | 0.5 | 0 |
| 172 | Title is missing!. , 2019, 17, e3000473. | | 0 |
| 173 | Title is missing!. , 2019, 17, e3000473. | | 0 |
| 174 | Title is missing!. , 2019, 17, e3000473. | | 0 |
| 175 | Title is missing!. , 2019, 17, e3000473. | | 0 |
| 176 | Title is missing!. , 2019, 17, e3000473. | | 0 |