

Prabuddha Sengupta

List of Publications by Citations

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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.

43
papers

4,156
citations

32
h-index

52
g-index

52
ext. papers

4,800
ext. citations

10.8
avg. IF

5.39
L-index

#	Paper	IF	Citations
43	Large-scale fluid/fluid phase separation of proteins and lipids in giant plasma membrane vesicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 3165-70	11.5	621
42	Probing protein heterogeneity in the plasma membrane using PALM and pair correlation analysis. <i>Nature Methods</i> , 2011 , 8, 969-75	21.6	435
41	Critical fluctuations in plasma membrane vesicles. <i>ACS Chemical Biology</i> , 2008 , 3, 287-93	4.9	354
40	A role for actin arcs in the leading-edge advance of migrating cells. <i>Nature Cell Biology</i> , 2011 , 13, 371-81	23.4	265
39	Core/Shell fluorescent silica nanoparticles for chemical sensing: towards single-particle laboratories. <i>Small</i> , 2006 , 2, 723-6	11	252
38	Structural determinants for partitioning of lipids and proteins between coexisting fluid phases in giant plasma membrane vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 20-32	3.8	173
37	Bleaching/blinking assisted localization microscopy for superresolution imaging using standard fluorescent molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 21081-6	11.5	160
36	Photocontrollable fluorescent proteins for superresolution imaging. <i>Annual Review of Biophysics</i> , 2014 , 43, 303-29	21.1	157
35	Distribution of ESCRT machinery at HIV assembly sites reveals virus scaffolding of ESCRT subunits. <i>Science</i> , 2014 , 343, 653-6	33.3	141
34	Lipid segregation and IgE receptor signaling: a decade of progress. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2005 , 1746, 252-9	4.9	119
33	TMC1 and TMC2 Localize at the Site of Mechanotransduction in Mammalian Inner Ear Hair Cell Stereocilia. <i>Cell Reports</i> , 2015 , 12, 1606-17	10.6	114
32	Lipid rafts, fluid/fluid phase separation, and their relevance to plasma membrane structure and function. <i>Seminars in Cell and Developmental Biology</i> , 2007 , 18, 583-90	7.5	110
31	Superresolution imaging of biological systems using photoactivated localization microscopy. <i>Chemical Reviews</i> , 2014 , 114, 3189-202	68.1	106
30	Quantifying spatial organization in point-localization superresolution images using pair correlation analysis. <i>Nature Protocols</i> , 2013 , 8, 345-54	18.8	102
29	AMPK and vacuole-associated Atg14p orchestrate lipophagy for energy production and long-term survival under glucose starvation. <i>ELife</i> , 2017 , 6,	8.9	92
28	Structural Basis and Functional Role of Intramembrane Trimerization of the Fas/CD95 Death Receptor. <i>Molecular Cell</i> , 2016 , 61, 602-613	17.6	90
27	Visualizing cell structure and function with point-localization superresolution imaging. <i>Developmental Cell</i> , 2012 , 23, 1092-102	10.2	82

26	Fluorescence resonance energy transfer between lipid probes detects nanoscopic heterogeneity in the plasma membrane of live cells. <i>Biophysical Journal</i> , 2007 , 92, 3564-74	2.9	66
25	ER membranes exhibit phase behavior at sites of organelle contact. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7225-7235	11.5	63
24	A lipid-based partitioning mechanism for selective incorporation of proteins into membranes of HIV particles. <i>Nature Cell Biology</i> , 2019 , 21, 452-461	23.4	52
23	Quantitative analysis of photoactivated localization microscopy (PALM) datasets using pair-correlation analysis. <i>BioEssays</i> , 2012 , 34, 396-405	4.1	51
22	MicroRNA binding to the HIV-1 Gag protein inhibits Gag assembly and virus production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2676-83	11.5	49
21	Accelerating 3B single-molecule super-resolution microscopy with cloud computing. <i>Nature Methods</i> , 2013 , 10, 96-7	21.6	44
20	Functionalized surface arrays for spatial targeting of immune cell signaling. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5594-5	16.4	44
19	Coordinated elevation of mitochondrial oxidative phosphorylation and autophagy help drive hepatocyte polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 7288-93	11.5	42
18	Mechanisms underlying the micron-scale segregation of sterols and GM1 in live mammalian sperm. <i>Journal of Cellular Physiology</i> , 2009 , 218, 522-36	7	41
17	Immature HIV-1 lattice assembly dynamics are regulated by scaffolding from nucleic acid and the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10056-E10065	11.5	40
16	LKB1/AMPK and PKA control ABCB11 trafficking and polarization in hepatocytes. <i>PLoS ONE</i> , 2014 , 9, e91921	3.7	38
15	ER trapping reveals Golgi enzymes continually revisit the ER through a recycling pathway that controls Golgi organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E6752-61	11.5	37
14	Quantitative nanoscale analysis of IgE-Fc β R1 clustering and coupling to early signaling proteins. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 6923-35	3.4	33
13	The nucleoporin Seh1 forms a complex with Mio and serves an essential tissue-specific function in <i>Drosophila</i> oogenesis. <i>Development (Cambridge)</i> , 2011 , 138, 2133-42	6.6	33
12	Fas/CD95 prevents autoimmunity independently of lipid raft localization and efficient apoptosis induction. <i>Nature Communications</i> , 2016 , 7, 13895	17.4	32
11	The nanoscale spatial organization of B-cell receptors on immunoglobulin M- and G-expressing human B-cells. <i>Molecular Biology of the Cell</i> , 2017 , 28, 511-523	3.5	28
10	Primary cilia utilize glycoprotein-dependent adhesion mechanisms to stabilize long-lasting cilia-cilia contacts. <i>Cilia</i> , 2012 , 1, 3	5.5	18
9	Molecular templates for bio-specific recognition by low-energy electron beam lithography. <i>Nanobiotechnology</i> , 2005 , 1, 023-034		16

8	AQP2 Plasma Membrane Diffusion Is Altered by the Degree of AQP2-S256 Phosphorylation. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	16
7	Myosin VI facilitates connexin 43 gap junction accretion. <i>Journal of Cell Science</i> , 2017 , 130, 827-840	5.3	9
6	Fluorescent core-shell silica nanoparticles: an alternative radiative materials platform 2006 , 6096, 609605		7
5	Revisiting Membrane Microdomains and Phase Separation: A Viral Perspective. <i>Viruses</i> , 2020 , 12,	6.2	7
4	Regulation of Plasma Membrane Nanodomains of the Water Channel Aquaporin-3 Revealed by Fixed and Live Photoactivated Localization Microscopy. <i>Nano Letters</i> , 2019 , 19, 699-707	11.5	7
3	Photohighlighting approaches to access membrane dynamics of the Golgi apparatus. <i>Methods in Cell Biology</i> , 2013 , 118, 217-34	1.8	3
2	Defining the Biology-Materials Interface using both 2D and 3D Lithography. <i>Journal of Photopolymer Science and Technology = [Fotopolimer Konwakai Shi]</i> , 2006 , 19, 435-440	0.7	3
1	Author response: AMPK and vacuole-associated Atg14p orchestrate ßipophagy for energy production and long-term survival under glucose starvation 2017 ,		3