Prabuddha Sengupta

List of Publications by Year
in descending order

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47 papers	5,154 citations	126858 33 h-index	265120 42 g-index
52 all docs	52 docs citations	52 times ranked	7590 citing authors

#	Article	IF	Citations
1	Super-Resolution Imaging of Fas/CD95 Reorganization Induced by Membrane-Bound Fas Ligand Reveals Nanoscale Clustering Upstream of FADD Recruitment. Cells, 2022, 11, 1908.	1.8	3
2	Revisiting Membrane Microdomains and Phase Separation: A Viral Perspective. Viruses, 2020, 12, 745.	1.5	21
3	ER membranes exhibit phase behavior at sites of organelle contact. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7225-7235.	3.3	117
4	A lipid-based partitioning mechanism for selective incorporation of proteins into membranes of HIV particles. Nature Cell Biology, 2019, 21, 452-461.	4.6	97
5	Regulation of Plasma Membrane Nanodomains of the Water Channel Aquaporin-3 Revealed by Fixed and Live Photoactivated Localization Microscopy. Nano Letters, 2019, 19, 699-707.	4.5	12
6	Myosin VI facilitates connexin 43 gap junction accretion. Journal of Cell Science, 2017, 130, 827-840.	1.2	14
7	The nanoscale spatial organization of B-cell receptors on immunoglobulin Mâ€“ and Gâ€“expressing human B-cells. Molecular Biology of the Cell, 2017, 28, 511-523.	0.9	40
8	Immature HIV-1 lattice assembly dynamics are regulated by scaffolding from nucleic acid and the plasma membrane. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10056-E10065.	3.3	86
9	AMPK and vacuole-associated Atg14p orchestrate Î¼-lipophagy for energy production and long-term survival under glucose starvation. ELife, 2017, 6, .	2.8	138
10	AQP2 Plasma Membrane Diffusion Is Altered by the Degree of AQP2-S256 Phosphorylation. International Journal of Molecular Sciences, 2016, 17, 1804.	1.8	21
11	Fas/CD95 prevents autoimmunity independently of lipid raft localization and efficient apoptosis induction. Nature Communications, 2016, 7, 13895.	5.8	45
12	Structural Basis and Functional Role of Intramembrane Trimerization of the Fas/CD95 Death Receptor. Molecular Cell, 2016, 61, 602-613.	4.5	135
13	ER trapping reveals Golgi enzymes continually revisit the ER through a recycling pathway that controls Golgi organization. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6752-61.	3.3	49
14	TMC1 and TMC2 Localize at the Site of Mechanotransduction in Mammalian Inner Ear Hair Cell Stereocilia. Cell Reports, 2015, 12, 1606-1617.	2.9	152
15	LKB1/AMPK and PKA Control ABCB11 Trafficking and Polarization in Hepatocytes. PLoS ONE, 2014, 9, e91921.	1.1	44
16	Superresolution Imaging of Biological Systems Using Photoactivated Localization Microscopy. Chemical Reviews, 2014, 114, 3189-3202.	23.0	124
17	MicroRNA binding to the HIV-1 Gag protein inhibits Gag assembly and virus production. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2676-83.	3.3	66
18	Nanoscale Mechanisms Underlying HIV-1 Viral Particle Assembly and Release. Biophysical Journal, 2014, 106, 5a-6a.	0.2	0

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19	Photocontrollable Fluorescent Proteins for Superresolution Imaging. Annual Review of Biophysics, 2014, 43, 303-329.	4.5	211
20	Distribution of ESCRT Machinery at HIV Assembly Sites Reveals Virus Scaffolding of ESCRT Subunits. Science, 2014, 343, 653-656.	6.0	165
21	Accelerating 3B single-molecule super-resolution microscopy with cloud computing. Nature Methods, 2013, 10, 96-97.	9.0	50
22	Temporal and Spatial Remodeling of Host Cell Plasma Membrane during HIV Assembly Revealed by Quantitative Superresolution Microscopy. Biophysical Journal, 2013, 104, 416a.	0.2	0
23	Photohighlighting Approaches to Access Membrane Dynamics of the Golgi Apparatus. Methods in Cell Biology, 2013, 118, 217-234.	0.5	3
24	Quantifying spatial organization in point-localization superresolution images using pair correlation analysis. Nature Protocols, 2013, 8, 345-354.	5.5	135
25	Coordinated elevation of mitochondrial oxidative phosphorylation and autophagy help drive hepatocyte polarization. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7288-7293.	3.3	56
26	Visualizing Cell Structure and Function with Point-Localization Superresolution Imaging. Developmental Cell, 2012, 23, 1092-1102.	3.1	89
27	Quantitative Nanoscale Analysis of IgE-FcÎµRI Clustering and Coupling to Early Signaling Proteins. Journal of Physical Chemistry B, 2012, 116, 6923-6935.	1.2	35
28	Quantitative analysis of photoactivated localization microscopy (PALM) datasets using pairâ€correlation analysis. BioEssays, 2012, 34, 396-405.	1.2	61
29	Primary cilia utilize glycoprotein-dependent adhesion mechanisms to stabilize long-lasting cilia-cilia contacts. Cilia, 2012, 1, 3.	1.8	23
30	Quantitative Analysis of the Lateral Organization of Plasma Membrane Proteins using Photoactivated Localization Microscopy (PALM). Biophysical Journal, 2011, 100, 476a.	0.2	0
31	Probing protein heterogeneity in the plasma membrane using PALM and pair correlation analysis. Nature Methods, 2011, 8, 969-975.	9.0	526
32	Nano-Scale Spatial Organization of Plasma Membrane Revealed by Pair-Correlation Analysis. Biophysical Journal, 2011, 100, 350a.	0.2	0
33	A role for actin arcs in the leading-edge advance of migrating cells. Nature Cell Biology, 2011, 13, 371-382.	4.6	314
34	Bleaching/blinking assisted localization microscopy for superresolution imaging using standard fluorescent molecules. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 21081-21086.	3.3	191
35	The nucleoporin Seh1 forms a complex with Mio and serves an essential tissue-specific function in Drosophila oogenesis. Development (Cambridge), 2011, 138, 2133-2142.	1.2	39
36	Mechanisms underlying the micronâ€scale segregation of sterols and G_{M1} in live mammalian sperm. Journal of Cellular Physiology, 2009, 218, 522-536.	2.0	42

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37	Structural determinants for partitioning of lipids and proteins between coexisting fluid phases in giant plasma membrane vesicles. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 20-32.	1.4	200
38	Critical Fluctuations in Plasma Membrane Vesicles. ACS Chemical Biology, 2008, 3, 287-293.	1.6	420
39	Large-scale fluid/fluid phase separation of proteins and lipids in giant plasma membrane vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3165-3170.	3.3	737
40	Lipid rafts, fluid/fluid phase separation, and their relevance to plasma membrane structure and function. Seminars in Cell and Developmental Biology, 2007, 18, 583-590.	2.3	132
41	Fluorescence Resonance Energy Transfer between Lipid Probes Detects Nanoscopic Heterogeneity in the Plasma Membrane of Live Cells. Biophysical Journal, 2007, 92, 3564-3574.	0.2	75
42	Fluorescent core-shell silica nanoparticles: an alternative radiative materials platform. , 2006, 6096, 609605.		8
43	Functionalized Surface Arrays for Spatial Targeting of Immune Cell Signaling. Journal of the American Chemical Society, 2006, 128, 5594-5595.	6.6	49
44	Defining the Biology-Materials Interface using both 2D and 3D Lithography. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2006, 19, 435-440.	0.1	3
45	Core/Shell Fluorescent Silica Nanoparticles for Chemical Sensing: Towards Single-Particle Laboratories. Small, 2006, 2, 723-726.	5.2	273
46	Molecular Templates for Bio-specific Recognition by Low-Energy Electron Beam Lithography. Nanobiotechnology, 2005, 1, 023-034.	1.2	16
47	Lipid segregation and IgE receptor signaling: A decade of progress. Biochimica Et Biophysica Acta - Molecular Cell Research, 2005, 1746, 252-259.	1.9	129