Alf Honigmann

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7408231/publications.pdf

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56	6,005	159585	182427
papers	citations	30	51
		h-index	g-index

62	62	62	7807
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A near-infrared fluorophore for live-cell super-resolution microscopy of cellular proteins. Nature Chemistry, 2013, 5, 132-139.	13.6	779
2	RNA-Induced Conformational Switching and Clustering of G3BP Drive Stress Granule Assembly by Condensation. Cell, 2020, 181, 346-361.e17.	28.9	557
3	The Centrosome Is a Selective Condensate that Nucleates Microtubules by Concentrating Tubulin. Cell, 2017, 169, 1066-1077.e10.	28.9	533
4	Partitioning, diffusion, and ligand binding of raft lipid analogs in model and cellular plasma membranes. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1777-1784.	2.6	301
5	The 2015 super-resolution microscopy roadmap. Journal Physics D: Applied Physics, 2015, 48, 443001.	2.8	291
6	Phase Separation of Zonula Occludens Proteins Drives Formation of Tight Junctions. Cell, 2019, 179, 923-936.e11.	28.9	275
7	Scanning STED-FCS reveals spatiotemporal heterogeneity of lipid interaction in the plasma membrane of living cells. Nature Communications, 2014, 5, 5412.	12.8	257
8	Coaligned Dual-Channel STED Nanoscopy and Molecular Diffusion Analysis at 20 nm Resolution. Biophysical Journal, 2013, 105, L01-L03.	0.5	256
9	Phosphatidylinositol 4,5-bisphosphate clusters act as molecular beacons for vesicle recruitment. Nature Structural and Molecular Biology, 2013, 20, 679-686.	8.2	246
10	STED Nanoscopy Reveals Molecular Details of Cholesterol- and Cytoskeleton-Modulated Lipid Interactions in Living Cells. Biophysical Journal, 2011, 101, 1651-1660.	0.5	232
11	Phase separation provides a mechanism to reduce noise in cells. Science, 2020, 367, 464-468.	12.6	214
12	A lipid bound actin meshwork organizes liquid phase separation in model membranes. ELife, 2014, 3, e01671.	6.0	161
13	Multi-protein assemblies underlie the mesoscale organization of the plasma membrane. Nature Communications, 2014, 5, 4509.	12.8	157
14	Expansion Stimulated Emission Depletion Microscopy (ExSTED). ACS Nano, 2018, 12, 4178-4185.	14.6	148
15	Hydrophobic mismatch sorts SNARE proteins into distinct membrane domains. Nature Communications, 2015, 6, 5984.	12.8	130
16	STED microscopy detects and quantifies liquid phase separation in lipid membranes using a new far-red emitting fluorescent phosphoglycerolipid analogue. Faraday Discussions, 2013, 161, 77-89.	3.2	126
17	The molecular structure of mammalian primary cilia revealed by cryo-electron tomography. Nature Structural and Molecular Biology, 2020, 27, 1115-1124.	8.2	118
18	GPI-anchored proteins do not reside in ordered domains in the live cell plasma membrane. Nature Communications, 2015, 6, 6969.	12.8	115

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19	Interaction of calmodulin with Sec61Î± limits Ca²⁺leakage from the endoplasmic reticulum. EMBO Journal, 2011, 30, 17-31.	7.8	88
20	Transcription organizes euchromatin via microphase separation. Nature Communications, 2021, 12, 1360.	12.8	83
21	Exploring single-molecule dynamics with fluorescence nanoscopy. New Journal of Physics, 2009, 11, 103054.	2.9	79
22	A comparative study on fluorescent cholesterol analogs as versatile cellular reporters. Journal of Lipid Research, 2016, 57, 299-309.	4.2	78
23	STED-FLCS: An Advanced Tool to Reveal Spatiotemporal Heterogeneity of Molecular Membrane Dynamics. Nano Letters, 2015, 15, 5912-5918.	9.1	71
24	A pathway for protons in nitric oxide reductase from Paracoccus denitrificans. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 362-373.	1.0	67
25	Compartmentalization of the Cell Membrane. Journal of Molecular Biology, 2016, 428, 4739-4748.	4.2	66
26	Key steps in unconventional secretion of fibroblast growth factor 2 reconstituted with purified components. ELife, 2017, 6, .	6.0	63
27	Membrane Orientation and Lateral Diffusion of BODIPY-Cholesterol as a Function of Probe Structure. Biophysical Journal, 2013, 105, 2082-2092.	0.5	60
28	Characterization of Horizontal Lipid Bilayers as a Model System to Study Lipid Phase Separation. Biophysical Journal, 2010, 98, 2886-2894.	0.5	57
29	SWAP70 Organizes the Actin Cytoskeleton and Is Essential for Phagocytosis. Cell Reports, 2016, 17, 1518-1531.	6.4	53
30	FCS in STED Microscopy. Methods in Enzymology, 2013, 519, 1-38.	1.0	50
31	How to minimize dye-induced perturbations while studying biomembrane structure and dynamics: PEG linkers as a rational alternative. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2436-2445.	2.6	31
32	Calcium Promotes the Formation of Syntaxin 1 Mesoscale Domains through Phosphatidylinositol 4,5-Bisphosphate. Journal of Biological Chemistry, 2016, 291, 7868-7876.	3.4	29
33	Reorganization of Lipid Diffusion by Myelin Basic Protein as Revealed by STED Nanoscopy. Biophysical Journal, 2016, 110, 2441-2450.	0.5	23
34	Horizontal Bilayer for Electrical and Optical Recordings. Materials, 2012, 5, 2705-2730.	2.9	22
35	Protein conducting nanopores. Journal of Physics Condensed Matter, 2010, 22, 454102.	1.8	21
36	Thermodynamics of wetting, prewetting and surface phase transitions with surface binding. New Journal of Physics, 2021, 23, 123003.	2.9	18

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37	Iron-mediated Oxidation Induces Conformational Changes within the Redox-sensing Protein HbpS. Journal of Biological Chemistry, 2010, 285, 28086-28096.	3.4	16
38	Optimization of 2D and 3D cell culture to study membrane organization with STED microscopy. Journal Physics D: Applied Physics, 2020, 53, 014001.	2.8	14
39	Tight Junction ZO Proteins Maintain Tissue Fluidity, Ensuring Efficient Collective Cell Migration. Advanced Science, 2021, 8, e2100478.	11.2	14
40	Improving Blind Spot Denoising for Microscopy. Lecture Notes in Computer Science, 2020, , 380-393.	1.3	14
41	Closing the gap: The approach of optical and computational microscopy to uncover biomembrane organization. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2558-2568.	2.6	11
42	Circle scanning STED fluorescence correlation spectroscopy to quantify membrane dynamics and compartmentalization. Methods, 2018, 140-141, 188-197.	3.8	11
43	The Next Frontier: Quantitative Biochemistry in Living Cells. Biochemistry, 2018, 57, 47-55.	2.5	10
44	Secretory vesicles of immune cells contain only a limited number of interleukin 6 molecules. FEBS Letters, 2018, 592, 1535-1544.	2.8	9
45	A high resolution electro-optical approach for investigating transition of soluble proteins to integral membrane proteins probed by colicin A. Biochemical and Biophysical Research Communications, 2012, 427, 385-391.	2.1	7
46	Expansion STED microscopy (ExSTED). Methods in Cell Biology, 2021, 161, 15-31.	1.1	7
47	gSTED Microscopy with an OPSL: Cutting Edge Superâ€Resolution. Optik & Photonik, 2012, 7, 44-46.	0.2	3
48	Discovery of anti-inflammatory physiological peptides that promote tissue repair by reinforcing epithelial barrier formation. Science Advances, 2021, 7, eabj6895.	10.3	3
49	How to orient cells in microcavities for high resolution imaging of cytokinesis and lumen formation. Methods in Cell Biology, 2020, 158, 25-41.	1.1	2
50	New Insight into Lipid-Protein Membrane Organization and its Functionality with Super-Resolution STED Microscopy. Biophysical Journal, 2013, 104, 5a.	0.5	1
51	A Lipid Bound Actin Meshwork Organizes Liquid Phase Separation in Model Membranes. Biophysical Journal, 2014, 106, 634a.	0.5	1
52	Tight Junction ZO Proteins Maintain Tissue Fluidity, Ensuring Efficient Collective Cell Migration (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	11.2	1
53	Characterization of Horizontal Lipid Bilayers as a Model System to Study Lipid Phase Separation. Biophysical Journal, 2010, 98, 281a.	0.5	0
54	Nanoscale Interactions of Lipids and Proteins in Live Cell Membranes Revealed by STED Nanoscopy. Biophysical Journal, 2012, 102, 32a-33a.	0.5	0

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55	Multivalent Chelator Lipids for Targeting and Manipulation of Proteins inÂMembrane Nanodomains. Biophysical Journal, 2012, 102, 33a.	0.5	0
56	Partitioning, Diffusion, and Ligand Binding of Raft Lipid Analogs in Model and Cellular Plasma Membranes. Biophysical Journal, 2012, 102, 296a-297a.	0.5	0