B Christoffer Lagerholm

List of Publications by Year
in descending order

53	4,212	186265 28	182427 51
papers	citations	h-index	g-index

58	58	58	6858
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Noninvasive Imaging of Quantum Dots in Mice. Bioconjugate Chemistry, 2004, 15, 79-86.	3.6	1,045
2	Colonic epithelial cell diversity in health and inflammatory bowel disease. Nature, 2019, 567, 49-55.	27.8	486
3	DETECTING MICRODOMAINS IN INTACT CELL MEMBRANES. Annual Review of Physical Chemistry, 2005, 56, 309-336.	10.8	209
4	The Lateral Organization and Mobility of Plasma Membrane Components. Cell, 2019, 177, 806-819.	28.9	183
5	Imaging cellular structures in super-resolution with SIM, STED and Localisation Microscopy: A practical comparison. Scientific Reports, 2016, 6, 27290.	3.3	156
6	Cytoskeletal actin dynamics shape a ramifying actin network underpinning immunological synapse formation. Science Advances, 2017, 3, e1603032.	10.3	143
7	Methods to measure the lateral diffusion of membrane lipids and proteins. Methods, 2006, 39, 147-153.	3.8	135
8	Multicolor Coding of Cells with Cationic Peptide Coated Quantum Dots. Nano Letters, 2004, 4, 2019-2022.	9.1	133
9	Bulk and micropatterned conjugation of extracellular matrix proteins to characterized polyacrylamide substrates for cell mechanotransduction assays. BioTechniques, 2005, 39, 847-851.	1.8	127
10	Anti-Human CD73 Monoclonal Antibody Inhibits Metastasis Formation in Human Breast Cancer by Inducing Clustering and Internalization of CD73 Expressed on the Surface of Cancer Cells. Journal of Immunology, 2013, 191, 4165-4173.	0.8	114
11	Cortical actin networks induce spatio-temporal confinement of phospholipids in the plasma membrane â€“ a minimally invasive investigation by STED-FCS. Scientific Reports, 2015, 5, 11454.	3.3	106
12	An essential role for the Zn2+ transporter ZIP7 in B cell development. Nature Immunology, 2019, 20, 350-361.	14.5	92
13	Theory for Ligand Rebinding at Cell Membrane Surfaces. Biophysical Journal, 1998, 74, 1215-1228.	0.5	87
14	BET inhibition disrupts transcription but retains enhancer-promoter contact. Nature Communications, 2021, 12, 223.	12.8	84
15	Measuring nanoscale diffusion dynamics in cellular membranes with super-resolution STEDâ€“FCS. Nature Protocols, 2019, 14, 1054-1083.	12.0	76
16	Exploring the Potential of Airyscan Microscopy for Live Cell Imaging. Photonics, 2017, 4, 41.	2.0	74
17	Visualization of Plasma Membrane Compartmentalization by High-Speed Quantum Dot Tracking. Nano Letters, 2013, 13, 2332-2337.	9.1	65
18	A tissue-specific self-interacting chromatin domain forms independently of enhancer-promoter interactions. Nature Communications, 2018, 9, 3849.	12.8	62

#	Article	IF	Citations
19	The Probe Rules in Single Particle Tracking. Current Protein and Peptide Science, 2011, 12, 699-713.	1.4	61
20	A cell topography-based mechanism for ligand discrimination by the T cell receptor. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14002-14010.	7.1	60
21	Total internal reflection fluorescence: applications in cellular biophysics. Current Opinion in Biotechnology, 1997, 8, 58-64.	6.6	53
22	Analysis Method for Measuring Submicroscopic Distances with Blinking Quantum Dots. Biophysical Journal, 2006, 91, 3050-3060.	0.5	53
23	Convergence of lateral dynamic measurements in the plasma membrane of live cells from single particle tracking and STED-FCS. Journal Physics D: Applied Physics, 2017, 50, 063001.	2.8	52
24	A straightforward approach for gated STED-FCS to investigate lipid membrane dynamics. Methods, 2015, 88, 67-75.	3.8	50
25	Internet-Based Image Analysis Quantifies Contractile Behavior of Individual Fibroblasts inside Model Tissue. Biophysical Journal, 2003, 84, 2715-2727.	0.5	48
26	Rebinding of IgE Fabs at Haptenated Planar Membranes:â€‰ Measurement by Total Internal Reflection with Fluorescence Photobleaching Recovery. Biochemistry, 2000, 39, 2042-2051.	2.5	39
27	Multi-Color Single Particle Tracking with Quantum Dots. PLoS ONE, 2012, 7, e48521.	2.5	37
28	Detection and Correction of Blinking Bias in Image Correlation Transport Measurements of Quantum Dot Tagged Macromolecules. Biophysical Journal, 2007, 93, 1338-1346.	0.5	32
29	FRET-enhanced photostability allows improved single-molecule tracking of proteins and protein complexes in live mammalian cells. Nature Communications, 2018, 9, 2520.	12.8	31
30	Statistical Analysis of Scanning Fluorescence Correlation Spectroscopy Data Differentiates Free from Hindered Diffusion. ACS Nano, 2018, 12, 8540-8546.	14.6	27
31	Simultaneous Multi-Species Tracking in Live Cells with Quantum Dot Conjugates. PLoS ONE, 2014, 9, e97671.	2.5	26
32	A Single Molecule Investigation of the Photostability of Quantum Dots. PLoS ONE, 2012, 7, e44355.	2.5	25
33	Complementary studies of lipid membrane dynamics using iSCAT and super-resolved fluorescence correlation spectroscopy. Journal Physics D: Applied Physics, 2018, 51, 235401.	2.8	23
34	Invasive Salmonella exploits divergent immune evasion strategies in infected and bystander dendritic cell subsets. Nature Communications, 2018, 9, 4883.	12.8	19
35	Temporal Dependence of Ligand Dissociation and Rebinding at Planar Surfaces. Journal of Physical Chemistry B, 2000, 104, 863-868.	2.6	18
36	Pathways to optical STED microscopy. NanoBioImaging, 2014, 1, .	1.0	18

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37	Water fluxes through aquaporin-9 prime epithelial cells for rapid wound healing. Biochemical and Biophysical Research Communications, 2013, 430, 993-998.	2.1	16
38	Peptide-Mediated Intracellular Delivery of Quantum Dots. , 2007, 374, 105-112.		15
39	Dendritic cell entry to lymphatic capillaries is orchestrated by CD44 and the hyaluronan glycocalyx. Life Science Alliance, 2021, 4, e202000908.	2.8	15
40	High photon count rates improve the quality of super-resolution fluorescence fluctuation spectroscopy. Journal Physics D: Applied Physics, 2020, 53, 164003.	2.8	15
41	Lateral Diffusion from Ligand Dissociation and Rebinding at Surfacesâ€. Langmuir, 2003, 19, 1782-1787.	3.5	14
42	Bridging the Gap between Single Molecule and Ensemble Methods for Measuring Lateral Dynamics in the Plasma Membrane. PLoS ONE, 2013, 8, e78096.	2.5	11
43	Disruption of hypoxia-inducible fatty acid binding protein 7 induces beige fat-like differentiation and thermogenesis in breast cancer cells. Cancer & Metabolism, 2020, 8, 13.	5.0	11
44	CalQuo: automated, simultaneous single-cell and population-level quantification of global intracellular Ca2+ responses. Scientific Reports, 2015, 5, 16487.	3.3	10
45	FOXN1 forms higher-order nuclear condensates displaced by mutations causing immunodeficiency. Science Advances, 2021, 7, eabj9247.	10.3	10
46	Single Molecule Applications of Quantum Dots. Journal of Modern Physics, 2013, 04, 27-42.	0.6	9
47	Imaging Vasculature and Lymphatic Flow in Mice Using Quantum Dots. Methods in Molecular Biology, 2009, 574, 63-74.	0.9	8
48	Defining the Diffusion in Model Membranes Using Line Fluorescence Recovery after Photobleaching. Membranes, 2020, 10, 434.	3.0	7
49	Coordination of two kinesin superfamily motor proteins, KIF3A and KIF13A, is essential for pericellular matrix degradation by membrane-type 1 matrix metalloproteinase (MT1-MMP) in cancer cells. Matrix Biology, 2022, 107, 1-23.	3.6	7
50	Long-Term Retention of Fluorescent Quantum Dots In Vivo. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 127-137.	0.3	5
51	[9] Cytomechanics applications of optical sectioning microscopy. Methods in Enzymology, 2003, 361, 175-197.	1.0	4
52	Using kICS to Reveal Changed Membrane Diffusion of AQP-9 Treated with Drugs. Membranes, 2021, 11, 568.	3.0	2
53	Interferometric scattering (iSCAT) microscopy: studies of biological membrane dynamics. , 2018, , .		0