

# Dylan M Owen

## List of Publications by Year in descending order

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87  
papers

5,059  
citations

101543

36  
h-index

98798

67  
g-index

94  
all docs

94  
docs citations

94  
times ranked

6778  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Measurements of Membrane Lipid Order in Yeast and Fungi. <i>Methods in Molecular Biology</i> , 2022, 2402, 291-298.	0.9	1
2	The T cell receptor displays lateral signal propagation involving non-engaged receptors. <i>Nanoscale</i> , 2022, 14, 3513-3526.	5.6	3
3	Correction of multiple-blinking artifacts in photoactivated localization microscopy. <i>Nature Methods</i> , 2022, 19, 594-602.	19.0	16
4	Three-dimensional total-internal reflection fluorescence nanoscopy with nanometric axial resolution by photometric localization of single molecules. <i>Nature Communications</i> , 2021, 12, 517.	12.8	12
5	Blinking statistics and molecular counting in direct stochastic reconstruction microscopy (dSTORM). <i>Bioinformatics</i> , 2021, 37, 2730-2737.	4.1	4
6	The Role of Protein and Lipid Clustering in Lymphocyte Activation. <i>Frontiers in Immunology</i> , 2021, 12, 600961.	4.8	13
7	LXR directly regulates glycosphingolipid synthesis and affects human CD4+ T cell function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	18
8	Asymmetric glycerophospholipids impart distinctive biophysical properties to lipid bilayers. <i>Biophysical Journal</i> , 2021, 120, 1746-1754.	0.5	10
9	Super-Resolution Imaging Approaches for Quantifying F-Actin in Immune Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 676066.	3.7	7
10	Differential nanoscale organisation of LFA-1 modulates T-cell migration. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	12
11	Laurdan and Di-4-ANEPPDHQ Influence the Properties of Lipid Membranes: A Classical Molecular Dynamics and Fluorescence Study. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11419-11430.	2.6	20
12	Asymmetry across the membrane. <i>Nature Chemical Biology</i> , 2020, 16, 605-606.	8.0	8
13	Machine learning for cluster analysis of localization microscopy data. <i>Nature Communications</i> , 2020, 11, 1493.	12.8	55
14	An agent-based model of molecular aggregation at the cell membrane. <i>PLoS ONE</i> , 2020, 15, e0226825.	2.5	9
15	Analysis methods for interrogating spatial organisation of single molecule localisation microscopy data. <i>International Journal of Biochemistry and Cell Biology</i> , 2020, 123, 105749.	2.8	8
16	Multi-color Molecular Visualization of Signaling Proteins Reveals How C-Terminal Src Kinase Nanoclusters Regulate T Cell Receptor Activation. <i>Cell Reports</i> , 2020, 33, 108523.	6.4	15
17	On the interaction of hyaluronic acid with synovial fluid lipid membranes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9845-9857.	2.8	43
18	Bridging the Nanoscopy-Immunology Gap. <i>Frontiers in Physics</i> , 2019, 6, .	2.1	4

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19	Spatio-temporal image correlation spectroscopy and super-resolution microscopy to quantify molecular dynamics in T cells. <i>Methods</i> , 2018, 140-141, 112-118.	3.8	13
20	Membrane lipid order of sub-synaptic T cell vesicles correlates with their dynamics and function. <i>Traffic</i> , 2018, 19, 29-35.	2.7	8
21	Time-Resolved Laurdan Fluorescence Reveals Insights into Membrane Viscosity and Hydration Levels. <i>Biophysical Journal</i> , 2018, 115, 1498-1508.	0.5	54
22	Quantitative fibre analysis of single-molecule localization microscopy data. <i>Scientific Reports</i> , 2018, 8, 10418.	3.3	25
23	Galectin-9 binds IgM-BCR to regulate B cell signaling. <i>Nature Communications</i> , 2018, 9, 3288.	12.8	85
24	Dynamic Bayesian Cluster Analysis of Live-Cell Single Molecule Localization Microscopy Datasets. <i>Small Methods</i> , 2018, 2, 1800008.	8.6	13
25	PRODAN differentially influences its local environment. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16060-16066.	2.8	13
26	Turning single-molecule localization microscopy into a quantitative bioanalytical tool. <i>Nature Protocols</i> , 2017, 12, 453-460.	12.0	149
27	Live-Cell Super-resolution Reveals F-Actin and Plasma Membrane Dynamics at the T Cell Synapse. <i>Biophysical Journal</i> , 2017, 112, 1703-1713.	0.5	54
28	Quantification of fibrous spatial point patterns from single-molecule localization microscopy (SMLM) data. <i>Bioinformatics</i> , 2017, 33, 1703-1711.	4.1	11
29	Quantitative Analysis of Membrane Protein Clustering from Live-Cell, Single-Molecule Super-Resolution Microscopy Data. <i>Biophysical Journal</i> , 2017, 112, 144a-145a.	0.5	1
30	Bright, near infrared emitting PLGA-PEG dye-doped CN-PPV nanoparticles for imaging applications. <i>RSC Advances</i> , 2017, 7, 15255-15264.	3.6	23
31	Nanoscale Structural Plasticity of the Active Zone Matrix Modulates Presynaptic Function. <i>Cell Reports</i> , 2017, 18, 2715-2728.	6.4	69
32	Toward an Axial Nanoscale Ruler for Fluorescence Microscopy. <i>ACS Nano</i> , 2017, 11, 11762-11767.	14.6	6
33	3D Bayesian cluster analysis of super-resolution data reveals LAT recruitment to the T cell synapse. <i>Scientific Reports</i> , 2017, 7, 4077.	3.3	36
34	Superresolution imaging of the cytoplasmic phosphatase PTPN22 links integrin-mediated T cell adhesion with autoimmunity. <i>Science Signaling</i> , 2016, 9, ra99.	3.6	37
35	The $\alpha$ PKC/Par3/Par6 Polarity Complex and Membrane Order Are Functionally Interdependent in Epithelia During Vertebrate Organogenesis. <i>Traffic</i> , 2016, 17, 66-79.	2.7	6
36	A Bayesian cluster analysis method for single-molecule localization microscopy data. <i>Nature Protocols</i> , 2016, 11, 2499-2514.	12.0	55

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37	Fast live-cell conventional fluorophore nanoscopy with ImageJ through super-resolution radial fluctuations. <i>Nature Communications</i> , 2016, 7, 12471.	12.8	468
38	Hydrophobin-Encapsulated Quantum Dots. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4887-4893.	8.0	15
39	Protein clustering and spatial organization in T-cells. <i>Biochemical Society Transactions</i> , 2015, 43, 315-321.	3.4	10
40	Cortical Actin Flow in T Cells Quantified by Spatio-temporal Image Correlation Spectroscopy of Structured Illumination Microscopy Data. <i>Journal of Visualized Experiments</i> , 2015, , e53749.	0.3	8
41	Enhancing Quantum Dots for Bioimaging using Advanced Surface Chemistry and Advanced Optical Microscopy: Application to Silicon Quantum Dots (SiQDs). <i>Advanced Materials</i> , 2015, 27, 6144-6150.	21.0	57
42	Platelet actin nodules are podosome-like structures dependent on Wiskottâ€Aldrich syndrome protein and ARP2/3 complex. <i>Nature Communications</i> , 2015, 6, 7254.	12.8	86
43	Discreet and distinct clustering of five model membrane proteins revealed by single molecule localization microscopy. <i>Molecular Membrane Biology</i> , 2015, 32, 11-18.	2.0	8
44	Topographic prominence as a method for cluster identification in singleâ€molecule localisation data. <i>Journal of Biophotonics</i> , 2015, 8, 925-934.	2.3	25
45	The Nanoscale Organization of Signaling Domains at the Plasma Membrane. <i>Current Topics in Membranes</i> , 2015, 75, 125-165.	0.9	11
46	Bayesian cluster identification in single-molecule localization microscopy data. <i>Nature Methods</i> , 2015, 12, 1072-1076.	19.0	124
47	Evidence for annexin <sc>A</sc>â€dependent plasma membrane remodelling of lipid domains. <i>British Journal of Pharmacology</i> , 2015, 172, 1677-1690.	5.4	38
48	Syk and Src Family Kinases Regulate C-type Lectin Receptor 2 (CLEC-2)-mediated Clustering of Podoplanin and Platelet Adhesion to Lymphatic Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2014, 289, 35695-35710.	3.4	70
49	Molecular Flow Quantified beyond the Diffraction Limit by Spatiotemporal Image Correlation of Structured Illumination Microscopy Data. <i>Biophysical Journal</i> , 2014, 107, L21-L23.	0.5	30
50	Tropomyosin Tm5NM1 Spatially Restricts Src Kinase Activity through Perturbation of Rab11 Vesicle Trafficking. <i>Molecular and Cellular Biology</i> , 2014, 34, 4436-4446.	2.3	10
51	Method for co-cluster analysis in multichannel single-molecule localisation data. <i>Histochemistry and Cell Biology</i> , 2014, 141, 605-612.	1.7	71
52	Conformational states of the kinase Lck regulate clustering in early T cell signaling. <i>Nature Immunology</i> , 2013, 14, 82-89.	14.5	206
53	Quantitative Analysis of Three-Dimensional Fluorescence Localization Microscopy Data. <i>Biophysical Journal</i> , 2013, 105, L05-L07.	0.5	31
54	CD317/Tetherin is an organiser of membrane microdomains. <i>Journal of Cell Science</i> , 2013, 126, 1553-64.	2.0	40

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55	Superresolution Microscopy Reveals Nanometer-Scale Reorganization of Inhibitory Natural Killer Cell Receptors upon Activation of NKG2D. <i>Science Signaling</i> , 2013, 6, ra62.	3.6	69
56	Protein Kinase C Controls Vesicular Transport and Secretion of Apolipoprotein E from Primary Human Macrophages. <i>Journal of Biological Chemistry</i> , 2013, 288, 5186-5197.	3.4	19
57	Imaging lipid domains in cell membranes: the advent of super-resolution fluorescence microscopy. <i>Frontiers in Plant Science</i> , 2013, 4, 503.	3.6	61
58	Characterization of a New Series of Fluorescent Probes for Imaging Membrane Order. <i>PLoS ONE</i> , 2013, 8, e52960.	2.5	65
59	Fluorescence localization microscopy. <i>Communicative and Integrative Biology</i> , 2012, 5, 345-349.	1.4	7
60	Sub-resolution lipid domains exist in the plasma membrane and regulate protein diffusion and distribution. <i>Nature Communications</i> , 2012, 3, 1256.	12.8	223
61	Targeted subendothelial matrix oxidation by myeloperoxidase triggers myosin II-dependent de-adhesion and alters signaling in endothelial cells. <i>Free Radical Biology and Medicine</i> , 2012, 53, 2344-2356.	2.9	30
62	Quantitative imaging of membrane lipid order in cells and organisms. <i>Nature Protocols</i> , 2012, 7, 24-35.	12.0	364
63	Optical Techniques for Imaging Membrane Domains in Live Cells (Live-Cell Palm of Protein Clustering). <i>Methods in Enzymology</i> , 2012, 504, 221-235.	1.0	25
64	Differential effects of lipids and lyso-lipids on the mechanosensitivity of the mechanosensitive channels MscL and MscS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8770-8775.	7.1	170
65	The lipid raft hypothesis revisited – New insights on raft composition and function from super-resolution fluorescence microscopy. <i>BioEssays</i> , 2012, 34, 739-747.	2.5	150
66	The structure and luminescence properties of europium(iii) triflate doped self-assembled pyromellitimide gels. <i>New Journal of Chemistry</i> , 2011, 35, 1466.	2.8	16
67	Pre-existing clusters of the adaptor Lat do not participate in early T cell signaling events. <i>Nature Immunology</i> , 2011, 12, 655-662.	14.5	302
68	Primary Human CD4+ T Cells Have Diverse Levels of Membrane Lipid Order That Correlate with Their Function. <i>Journal of Immunology</i> , 2011, 186, 3505-3516.	0.8	71
69	Optimized time-gated generalized polarization imaging of Laurdan and di-4-ANEPPDHQ for membrane order image contrast enhancement. <i>Microscopy Research and Technique</i> , 2010, 73, 618-622.	2.2	23
70	PALM imaging and cluster analysis of protein heterogeneity at the cell surface. <i>Journal of Biophotonics</i> , 2010, 3, 446-454.	2.3	248
71	Dynamic organization of lymphocyte plasma membrane: lessons from advanced imaging methods. <i>Immunology</i> , 2010, 131, 1-8.	4.4	20
72	Dynamics of Subsynaptic Vesicles and Surface Microclusters at the Immunological Synapse. <i>Science Signaling</i> , 2010, 3, ra36.	3.6	120

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73	High plasma membrane lipid order imaged at the immunological synapse periphery in live T cells. <i>Molecular Membrane Biology</i> , 2010, 27, 178-189.	2.0	73
74	Imaging Membrane Lipid Order in Whole, Living Vertebrate Organisms. <i>Biophysical Journal</i> , 2010, 99, L7-L9.	0.5	39
75	Chapter 4 Multidimensional fluorescence imaging. <i>Laboratory Techniques in Biochemistry and Molecular Biology</i> / Edited By T S Work [and] E Work, 2009, 33, 133-169.	0.2	4
76	Quantitative Microscopy: Protein Dynamics and Membrane Organisation. <i>Traffic</i> , 2009, 10, 962-971.	2.7	132
77	Lipid order and molecular assemblies in the plasma membrane of eukaryotic cells. <i>Biochemical Society Transactions</i> , 2009, 37, 1056-1060.	3.4	11
78	A compact, multidimensional spectrofluorometer exploiting supercontinuum generation. <i>Journal of Biophotonics</i> , 2008, 1, 494-505.	2.3	33
79	High speed unsupervised fluorescence lifetime imaging confocal multiwell plate reader for high content analysis. <i>Journal of Biophotonics</i> , 2008, 1, 514-521.	2.3	53
80	High-Speed High-Resolution Imaging of Intercellular Immune Synapses Using Optical Tweezers. <i>Biophysical Journal</i> , 2008, 95, L66-L68.	0.5	64
81	Improved sectioning in a slit scanning confocal microscope. <i>Optics Letters</i> , 2008, 33, 1813.	3.3	21
82	Three-dimensional molecular mapping in a microfluidic mixing device using fluorescence lifetime imaging. <i>Optics Letters</i> , 2008, 33, 1887.	3.3	26
83	Optical techniques for imaging membrane lipid microdomains in living cells. <i>Seminars in Cell and Developmental Biology</i> , 2007, 18, 591-598.	5.0	42
84	Excitation-resolved hyperspectral fluorescence lifetime imaging using a UV-extended supercontinuum source. <i>Optics Letters</i> , 2007, 32, 3408.	3.3	67
85	Rapid hyperspectral fluorescence lifetime imaging. <i>Microscopy Research and Technique</i> , 2007, 70, 481-484.	2.2	53
86	The Ternary Rab27a-Myrip-Myosin VIIa Complex Regulates Melanosome Motility in the Retinal Pigment Epithelium. <i>Traffic</i> , 2007, 8, 486-499.	2.7	81
87	Fluorescence Lifetime Imaging Provides Enhanced Contrast when Imaging the Phase-Sensitive Dye di-4-ANEPPDHQ in Model Membranes and Live Cells. <i>Biophysical Journal</i> , 2006, 90, L80-L82.	0.5	141