

Ian M Dobbie

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

3,136
citations

218677

26
h-index

189892

50
g-index

64
all docs

64
docs citations

64
times ranked

3951
citing authors

#	ARTICLE	IF	CITATIONS
1	Strategic and practical guidelines for successful structured illumination microscopy. <i>Nature Protocols</i> , 2017, 12, 988-1010.	12.0	258
2	SIMcheck: a Toolbox for Successful Super-resolution Structured Illumination Microscopy. <i>Scientific Reports</i> , 2015, 5, 15915.	3.3	250
3	Remodelling of Cortical Actin Where Lytic Granules Dock at Natural Killer Cell Immune Synapses Revealed by Super-Resolution Microscopy. <i>PLoS Biology</i> , 2011, 9, e1001152.	5.6	200
4	Signal-dependent turnover of the bacterial flagellar switch protein FlhM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11347-11351.	7.1	176
5	The Stiffness of Skeletal Muscle in Isometric Contraction and Rigor: The Fraction of Myosin Heads Bound to Actin. <i>Biophysical Journal</i> , 1998, 74, 2459-2473.	0.5	168
6	Rapid Actin Transport During Cell Protrusion. <i>Science</i> , 2003, 300, 142-145.	12.6	160
7	Imaging cellular structures in super-resolution with SIM, STED and Localisation Microscopy: A practical comparison. <i>Scientific Reports</i> , 2016, 6, 27290.	3.3	156
8	Elastic bending and active tilting of myosin heads during muscle contraction. <i>Nature</i> , 1998, 396, 383-387.	27.8	155
9	Super-Resolution Microscopy Using Standard Fluorescent Proteins in Intact Cells under Cryo-Conditions. <i>Nano Letters</i> , 2014, 14, 4171-4175.	9.1	121
10	A molecular mechanism of mitotic centrosome assembly in <i>Drosophila</i> . <i>ELife</i> , 2014, 3, e03399.	6.0	118
11	Elastic distortion of myosin heads and repriming of the working stroke in muscle. <i>Nature</i> , 1995, 374, 553-555.	27.8	115
12	<i>Drosophila</i> patterning is established by differential association of mRNAs with P bodies. <i>Nature Cell Biology</i> , 2012, 14, 1305-1313.	10.3	115
13	Histone H2A phosphorylation and H3 methylation are required for a novel Rad9 DSB repair function following checkpoint activation. <i>DNA Repair</i> , 2006, 5, 693-703.	2.8	114
14	Interference fine structure and sarcomere length dependence of the axial x-ray pattern from active single muscle fibers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 7226-7231.	7.1	110
15	Conformation of the myosin motor during force generation in skeletal muscle. <i>Nature Structural Biology</i> , 2000, 7, 482-485.	9.7	98
16	3D Correlative Cryo-Structured Illumination Fluorescence and Soft X-ray Microscopy Elucidates Reovirus Intracellular Release Pathway. <i>Cell</i> , 2020, 182, 515-530.e17.	28.9	73
17	Fluorescence localization after photobleaching (FLAP): a new method for studying protein dynamics in living cells. <i>Journal of Microscopy</i> , 2002, 205, 109-112.	1.8	57
18	CryoSIM: super-resolution 3D structured illumination cryogenic fluorescence microscopy for correlated ultrastructural imaging. <i>Optica</i> , 2020, 7, 802.	9.3	57

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19	IsoSense: frequency enhanced sensorless adaptive optics through structured illumination. <i>Optica</i> , 2019, 6, 370.	9.3	54
20	Super-resolution imaging of remodeled synaptic actin reveals different synergies between NK cell receptors and integrins. <i>Blood</i> , 2012, 120, 3729-3740.	1.4	52
21	Assessing resolution in super-resolution imaging. <i>Methods</i> , 2015, 88, 3-10.	3.8	47
22	QUAREP-LiMi: a community endeavor to advance quality assessment and reproducibility in light microscopy. <i>Nature Methods</i> , 2021, 18, 1423-1426.	19.0	44
23	Live Cell Imaging in <i>Drosophila melanogaster</i> . <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.top75.	0.3	38
24	OMX: A New Platform for Multimodal, Multichannel Wide-Field Imaging. <i>Cold Spring Harbor Protocols</i> , 2011, 2011, pdb.top121.	0.3	37
25	Changes in conformation of myosin heads during the development of isometric contraction and rapid shortening in single frog muscle fibres. <i>Journal of Physiology</i> , 1999, 514, 305-312.	2.9	36
26	Distinguishing direct from indirect roles for <i>bicoid</i> mRNA localization factors. <i>Development (Cambridge)</i> , 2010, 137, 169-176.	2.5	35
27	QUAREP-LiMi: A community-driven initiative to establish guidelines for quality assessment and reproducibility for instruments and images in light microscopy. <i>Journal of Microscopy</i> , 2021, 284, 56-73.	1.8	33
28	Sample preparation strategies for efficient correlation of 3D SIM and soft X-ray tomography data at cryogenic temperatures. <i>Nature Protocols</i> , 2021, 16, 2851-2885.	12.0	31
29	Implementation of a 4Pi-SMS super-resolution microscope. <i>Nature Protocols</i> , 2021, 16, 677-727.	12.0	29
30	A combined 3D-SIM/SMLM approach allows centriole proteins to be localized with a precision of ~ 4 nm. <i>Current Biology</i> , 2017, 27, R1054-R1055.	3.9	25
31	Mobility and distribution of replication protein A in living cells using fluorescence correlation spectroscopy. <i>Experimental and Molecular Pathology</i> , 2007, 82, 156-162.	2.1	16
32	Autofluorescent Proteins. <i>Methods in Cell Biology</i> , 2008, 85, 1-22.	1.1	15
33	Cryo-Structured Illumination Microscopic Data Collection from Cryogenically Preserved Cells. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	13
34	<i>Drosophila</i> Larval Fillet Preparation and Imaging of Neurons: Figure 1.. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.prot5405.	0.3	12
35	Wavefront-sensorless adaptive optics with a laser-free spinning disk confocal microscope. <i>Journal of Microscopy</i> , 2022, 288, 106-116.	1.8	12
36	Microscope-AOtools: a generalised adaptive optics implementation. <i>Optics Express</i> , 2020, 28, 28987.	3.4	11

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37	Democratising "Microscopi" a 3D printed automated XYZT fluorescence imaging system for teaching, outreach and fieldwork. Wellcome Open Research, 2021, 6, 63.	1.8	10
38	Isolation of <i>Drosophila</i> Egg Chambers for Imaging: Figure 1. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5402.	0.3	7
39	Data-deposition protocols for correlative soft X-ray tomography and super-resolution structured illumination microscopy applications. STAR Protocols, 2021, 2, 100253.	1.2	7
40	Python-Microscope " a new open-source Python library for the control of microscopes. Journal of Cell Science, 2021, 134, .	2.0	7
41	Collection and Mounting of <i>Drosophila</i> Embryos for Imaging: Figure 1.. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5403.	0.3	5
42	SPEKcheck " fluorescence microscopy spectral visualisation and optimisation: a web application, javascript library, and data resource. Wellcome Open Research, 2018, 3, 92.	1.8	5
43	Protocol for image registration of correlative soft X-ray tomography and super-resolution structured illumination microscopy images. STAR Protocols, 2021, 2, 100529.	1.2	5
44	BeamDelta: simple alignment tool for optical systems. Wellcome Open Research, 0, 4, 194.	1.8	5
45	Democratising "Microscopi" a 3D printed automated XYZT fluorescence imaging system for teaching, outreach and fieldwork. Wellcome Open Research, 0, 6, 63.	1.8	5
46	Visualizing Single Molecular Complexes & In Vivo Using Advanced Fluorescence Microscopy. Journal of Visualized Experiments, 2009, , 1508.	0.3	4
47	Bridging the resolution gap: correlative super-resolution imaging. Nature Reviews Microbiology, 2019, 17, 337-337.	28.6	4
48	Microscope-Cockpit: Python-based bespoke microscopy for bio-medical science. Wellcome Open Research, 0, 6, 76.	1.8	4
49	Resolution and Sampling in Digital Imaging. Microscopy Today, 2007, 15, 24-29.	0.3	2
50	Myosin Head Movements during Isometric Contraction Studied by X-Ray Diffraction of Single Frog Muscle Fibres. Advances in Experimental Medicine and Biology, 1998, 453, 265-270.	1.6	2
51	Microscope-Cockpit: Python-based bespoke microscopy for bio-medical science. Wellcome Open Research, 0, 6, 76.	1.8	2
52	Using Bioprobes to Follow Protein Dynamics in Living Cells. , 0, , 117-134.		1
53	<i>Drosophila</i> Macrophage Preparation and Screening. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5404.	0.3	1